

SAMSUNG TECHWIN

4-KANALS NETVÆRKSODER (BLADE-TYPE)

Brugervejledning

SPE-400B



4-kanals Netværkskoder (Blade-type) Brugervejledning

Copyright

©2011 Samsung Techwin Co., Ltd. Alle rettigheder forbeholdes.

Varemærke

 **SAMSUNG TECHWIN** er det registrerede logo for Samsung Techwin Co., Ltd.
Navnet på dette produkt er det registrerede varemærke for Samsung Techwin Co., Ltd.
Andre varemærker nævnt i denne vejledning er det registrerede varemærke for den respektive virksomhed.

Begrænsning

Samsung Techwin Co., Ltd forbeholder sig copyrighten til dette dokument. Dette dokument må under ingen omstændigheder reproduceres, distribueres eller ændres, delvist eller helt, uden formel godkendelse fra Samsung Techwin.

Fraskrivelse

Samsung Techwin gør mest muligt ud af at sikre integriteten og rigtigheden af indholdet i dette dokument, men der gives ingen formel garanti. Brug af dette dokument og efterfølgende resultater sker udelukkende på brugerens eget ansvar. Samsung Techwin forbeholder sig retten til at ændre indholdet af dette dokument uden forudgående underretning.

Garanti

If the product does not operate properly in normal conditions, please let us know. Samsung Techwin will resolve the problem for free of charge. The warranty period is 3 years. However, the followings are excluded:

- If the system behaves abnormally because you run a program irrelevant to the system operation.
- Deteriorated performance or natural worn-out in process of time

VIGTIGE SIKKERHEDSINSTRUKTIONER

1. Læs disse instruktioner.
2. Gem disse instruktioner.
3. Vær opmærksom på alle advarsler.
4. Følg alle instruktioner.
5. Brug ikke dette udstyr nær vand.
6. Brug kun en tør klud til rengøring.
7. Blokér ikke nogen ventilationsåbning, og installér i overensstemmelse med fabrikantens instruktioner.
8. Installer ikke tæt på varmekilder, som f.eks. radiatorer, varmeovne eller andre afspillere (herunder forstærkere), der afgiver varme.
9. Et polariseret stik eller et stik med jordforbindelse har et vigtigt sikkerhedsformål. Et polariseret stik har to ben, hvor det ene er bredere end det andet. Et stik med jordforbindelse har to ben og en tredje "tand" til jordforbindelsen. Det brede ben eller den tredje "tand" findes af hensyn til din sikkerhed. Hvis det leverede stik ikke passer til din stikkontakt, skal du konsultere en elektriker for at få en erstatning for det forkerte stik.
10. Sørg for, at du ikke bøjer eller trykker på netledningen, specielt ved stikkene, på opbevaringssteder og det sted, hvor den udgår fra afspilleren.
11. Brug kun tilbehør, der er specificeret af fabrikanten.
12. Brug kun rullebord, sokkel stativ, ophæng eller bord, som anbefalet af fabrikanten, eller der sælges sammen med afspilleren. Når der anvendes et rullebord, skal du være forsigtig, når du flytter rullebordet/afspilleren for at forhindre skade pga. tippende apparater.
13. Tag ledningen ud af afspilleren ved uvejr med lyn og torden, eller hvis den ikke skal anvendes i længere tid.
14. Overlad al service til uddannet servicepersonale. Service er nødvendig, hvis afspilleren er blevet beskadiget på nogen måde, som f.eks. beskadiget netledning eller stik, hvis der er spildt væske, hvis der er kommet objekter ind i afspilleren, hvis afspilleren har været udsat for regn eller fugt, fungerer unormalt eller er blevet tabt på gulvet.



ADVARSEL

DETTE PRODUKT MÅ IKKE UDSÆTTES FOR REGN ELLER FUGT, DA DER ER RISIKO FOR BRAND ELLER ELEKTRISK STØD.
INDFØR IKKE METALGENSTANDE Gennem VENTILATIONSRISTEN ELLER ANDRE ÅBNINGER PÅ UDS TYRET.

Apparatet må ikke udsættes for dryp eller sprøjt, og ingen genstande, der er fyldt med væske, f.eks. vaser, må anbringes på apparatet.

FORSIGTIG

	FORSIGTIG RISIKO FOR ELEKTRISK STØD MÅ IKKE ÅBNES	
FORSIGTIG : FOR AT MINDSKE RISIKOEN FOR ELEKTRISK STØD. FJERN IKKE DÆKSEL (ELLER BAGBEKLÆDNING). DER ER INTET INDENI, DER KAN REPARERES AF BRUGEREN. OVERLAD SERVICE TIL KVALIFICERET SERVICEPERSONALE.		

FORKLARING PÅ GRAFISKE SYMBOLER



Lynet med pilen i trekanten har til formål at advare brugeren mod tilstedeværelse af "farlig spænding" inde i produktets kabinet, som kan være i en sådan størrelsesorden, at den kan udgøre en risiko for, at personer kan få elektrisk stød.



Udråbstegnet i trekanten har til hensigt at advare brugeren mod tilstedeværelse af vigtige drifts- og vedligeholdelses- (service) instruktioner i den dokumentation, som følger med produktet.

Klasse I Konstruktion

Et apparat med KLASSE I-konstruktion skal tilsluttes en stikkontakt med beskyttende jordstik.

Batteri

Batterier (batteripakker eller installerede batterier) må ikke udsættes for stor varme, f.eks. solskin, ild eller lignende.

Hvis du sætter et forkert batteri i produktet, kan det føre til eksplosion.

Derfor skal du bruge den samme type batteri som det, der anvendes i produktet.

FORSIGTIG

Serviceinstruktionerne er kun til brug af uddannet servicepersonale.

Du må ikke udføre anden service end den, der omtales i driftsinstruktionerne, medmindre du har de fornødne kvalifikationer, da der er risiko for elektrisk stød.

oversigt

Læs omhyggeligt følgende anbefalede sikkerhedsforanstaltninger.

- Anbring ikke apparatet på en ujævn overflade.
- Anbring ikke apparatet på en overflade, hvor det udsættes for direkte sollys, eller i nærheden af varmeudstyr eller et område med stor kulde.
- Anbring ikke dette apparat i nærheden af elektrisk ledende materiale.
- Forsøg ikke selv at udføre service på dette apparat.
- Anbring ikke et glas vand på produktet.
- Anbring ikke produktet tæt på magnetiske kilder.
- Blokér ikke nogen ventilationsåbning.
- Anbring ikke tunge genstande oven på produktet.

Brugermanualen er en vejledning i, hvordan produkterne anvendes.

De anvendte tegn i bogen har følgende betydning:

- Reference: Der gives informationer om brug af produktet
- Bemærk: Hvis der er risiko for at påføre produkter og mennesker skade, hvis vejledningen ikke følges
- ※ Læs denne manual igennem, inden produktet tages i brug, og opbevar den et sikkert sted.

INDHOLD

OVERSICHT

3

- 3 Vigtige sikkerhedsinstruktioner
- 9 Produktfunktioner
- 9 Anbefalede PC-specifikationer
- 10 Dette Følger
- 11 Hurtigt overblik
- 14 Kontrol af Ip

INSTALLATION OG TILSLUTNING

15

- 15 Installation
- 16 Tilslutning til anden enhed

NETVÆRKSFORBINDELSE OG OPSÆTNING

19

- 19 Tilslutning af Netværkskoderen
Direkte til et Lokalt netværk
- 20 Tilslutning af Netværkskoderen
Direkte til et DHCP-baseret DSL/
Kabelmodem
- 21 Tilslutning af Netværkskoderen
Direkte til et PPPoE-modem
- 22 Tilslutning af Netværkskoderen
Til en Bredbånds-Router med et
PPPoE/Kable-modem
- 23 Anvendte knapper i
IP-installationsprogrammet
- 24 Statisk IP-opsætning
- 28 Dynamisk IP-opsætning
- 29 Opsætning af videreledning af
portinterval (porttilknytning)
- 31 Tilslutning af Netværkskoderen
fra en delt, Lokal PC
- 31 Tilslutning til Netværkskoderen
fra en Fjern-PC via Internettet

OPSÆTNINGSSKÆRM

32

- 32 Tilslutning til Netværkskoderen
- 33 Log på
- 34 Installation af Silverlight Runtime
- 36 Brug af Live-skærmen
- 37 Brug af Menuen Kamera

OPSÆTNINGSSKÆRM

39

- 39 Opsætning
- 39 Opsætning af Video
- 42 Netværksopsætning
- 47 Opsætning af begivenhed
- 53 Systemopsætning

APPENDIKS

58

- 58 Specifikation
- 60 Produktoversigt
- 61 Problemløsning
- 62 Open Source Announcement
- 64 GPL/LGPL Software License

PRODUKTFUNKTIONER

- **Multi-streaming**

Denne netværkskoder kan vise videoer i forskellige opløsninger og kvaliteter samtidig ved hjælp af forskellige CODECs.



- Men MPEG-4-videoer kan ikke afspilles på en webside. Brug CMS-software, hvis du vil afspille videoen på en webside.

- **Understøtter forskellige kommunikationsprotokoller**

- **Webbrowserbaseret overvågning**

Bruger webbrowseren til at afspille billedet i et lokalt netværksmiljø.

- **Alarm**

Hvis der opstår en hændelse, overføres den hændelsesrelaterede video til den e-mail, som brugeren har angivet, eller hændessignalet sendes til alarmudgangen.

- **Overholdelse af ONVIF (spec 1.01)**

Dette produkt understøtter ONVIF Core spec. 1.01.

Yderligere oplysninger findes på www.onvif.org.



Driving network video through global standardization

ANBEFALEDE PC-SPECIFIKATIONER

- CPU : Intel(R) Core(TM)2 2.00 GHz eller højere
- Operativsystem : Windows XP, VISTA, 7
Mac OS
- Opløsning : 1280X1024 pixels eller højere
- RAM : 1GB eller højere
- Webbrowser : Internet Explorer 7.0 eller højere, Firefox, Chrome, Safari
- Videohukommelse : 128MB eller højere

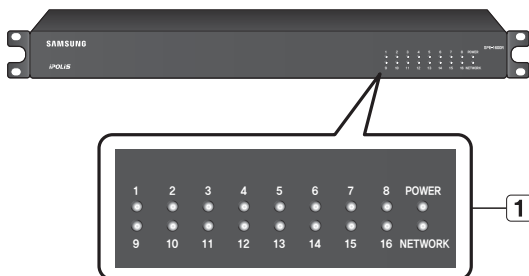
DETTE FØLGER

Kontroller, om din netværkskoder og alt tilbehør medfølger i emballagen.

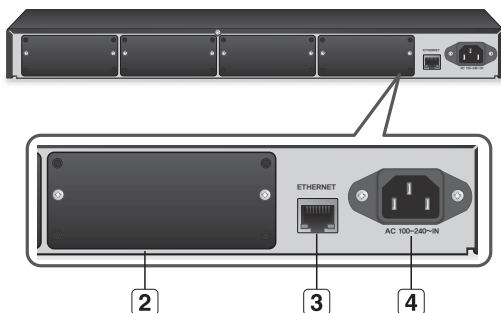
Udseende	Elementets navn	Antal	Beskrivelse
	Brugervejledning, CD med installationssoftware	1	
	CMS S/W DVD	1	
	Hurtig Vejledning	1	
	Klemrække	1	Anvendes til RS-485- eller alarmkabeltilslutning.
	Samling - monteringskrue	2	Anvendes til fastgøring af Blade (SPE-400B) til racket

HURTIGT OVERBLIK

SPE-1600R Forside



SPE-1600R Bagside



 ■ SPE-1600R sælges separat (medfølger ikke).

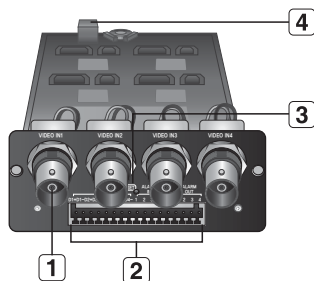
oversigt

Element		Beskrivelse
1 Netværksforbindelsesindikator for hver kanal, strøm- og netværksindikator	1~16	Kanaler sluttet til netværket blinker grønt med netværksstatussen.
	NETWORK	Når netværksforbindelsen er oprettet, blinker den med en forskellig farve, afhængig af tilslutningens status. Grøn : Blinker grønt ved tilslutning til 1000 Base-T Ethernet. Gul : Blinker gult ved tilslutning til 10/100 Base-T Ethernet.
	POWER	TIL : Når der er tændt for apparatet. FRA : Når der er slukket for apparatet.
2 Blade-slot (SPE-400B)	Slot til montering af Blade (SPE-400B). Slotnumrene er fra 1 til 4, startende længst til venstre. Når Blade (SPE-400B) er installeret, tildeles den en IP i numerisk rækkefølge.	
3 Netværksport	Bruges til at tilslutte et et LAN-kabel.	
4 Strømport	Bruges til at tilslutte den angivne strømkilde.	



- For glat videooverførsel anbefales installation i et 1000 Base-T Ethernet-miljø.

Blade (SPE-400B)

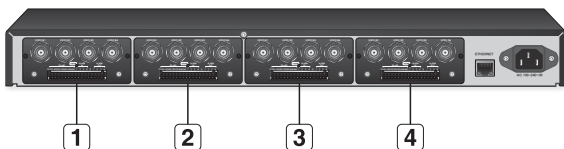


Element	Beskrivelse	
1 VIDEO IN (CH1~CH4)	Anvendes ved tilslutning af BNC-videoindgangssignalet.	
2 I/O Port	D+ (1~4)	RS-485-datalinje
	D- (1~4)	RS-485-datalinje
	ALARM IN (1~4)	Port til alarminput (sensor)
	G	GND
	ALARM OUT (1~4)	Port til Alarmudgang
3 Reset Button	Nulstiller netværkskoderens indstillinger til standardværdierne. Tryk og hold knappen inde i ca. 5 sekunder for at slukke for systemindikatoren og genstarte systemet. 1 Hvis du nulstiller netværkskoderen, justeres netværksindstillingerne, så DHCP kan aktiveres. Hvis der ikke er nogen DHCP-server i netværket, skal du køre IP-installationsprogrammet for at ændre de grundlæggende netværksindstillinger såsom IP-adresse, undernetmaske, gateway osv., inden du kan oprette forbindelse til netværket. ■ Flere informationer om netværksindstillingerne findes i "Netværksopsætning". (Side 42)	
4 Port til racktilslutning	Anvendes til tilslutning af Blade (SPE-400B) til racket.	

KONTROL AF IP

Som fabriksstandard er IP'en for hver Blade (SPE-400B) indstillet til "192.168.1.100~103". Hvis du bruger IP-INSTALLATIONSPROGRAMMET til at kontrollere IP'erne efter montering af alle 4 Blades (SPE-400B), kan du opleve en dubleret IP.

Sker dette, så brug IP-INSTALLATIONSPROGRAMMET til manuelt at ændre IP'en, eller tryk på og hold knappen <RESET> på bagpanelet nede i 5 sekunder for at rette IP-tildelingen til en numerisk rækkefølge.



Slot nr.	Start-IP	IP efter <RESET>
1	192.168.1.100~103	192.168.1.100~103
2	192.168.1.100~103	192.168.1.104~107
3	192.168.1.100~103	192.168.1.108~111
4	192.168.1.100~103	192.168.1.112~115

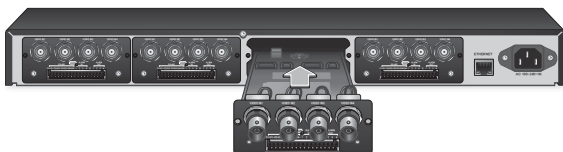
INSTALLATION

Sådan installeres Blade (SPE-400B)

1. Løsn skruerne på hver side af dækslet i rummet til Blade (SPE-400B) til SPE-1600R.



2. Fastgør Blade (SPE-400B) i begge skinner som vist, og isæt den i pilens retning.

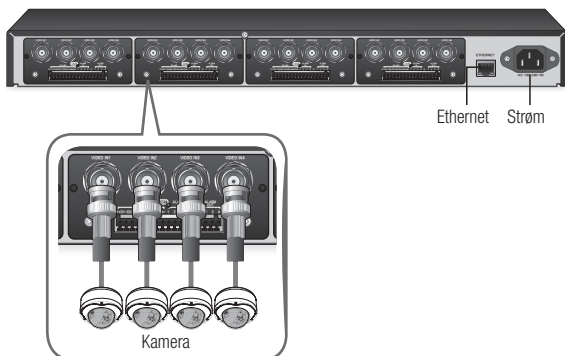


3. Skub Blade (SPE-400B) ind, indtil den tager fat i stikket i racket, og stram skruerne..



installation og tilslutning

TILSLUTNING TIL ANDEN ENHED



- SPE-1600R sælges separat (medfølger ikke).

Tilslutning af kameraet

Slut netværkskoderens [VIDEO IN]-porten til kameraets video out-port.

Ethernet-forbindelse

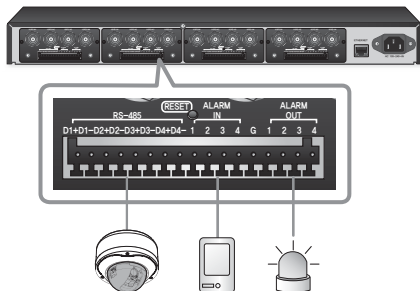
Tilslut Ethernet-kablet til det lokale netværk eller til internettet.

Strømforsyning

Tilslut strømkablet.

Tilslutning af RS-485- og alarmindgangs/udgangsporte

Slut RS-485- og alarmindgangs/udgangskabler til de relevante indgangs/udgangsporte på bagpanelet.



Stik	Beskrivelse	Stik	Beskrivelse
D+(1~4)	RS-485-datalinje	D-(1~4)	RS-485-datalinje
ALARM IN (1~4)	Port til alarminput (sensor)	ALARM OUT (1~4)	Alarmudgang
G	GND		

Tilslutning til RS-485-enheden

Slut den eksterne enhed til **[RS-485 D+, D-]**-portene.

Du kan tilslutte og styre et PTZ-kamera, der understøtter RS-485-kommunikation.

- Afhængigt af typen af kameraet, kan tilslutningspolariteten være forskellig. Se det pågældende PTZ-kameras dokumentation for yderligere oplysninger.

Tilslutning til alarmindgangen

Tilslut ét signalkabel (ud af 2) fra en relevant sensor til **[ALARM IN]**-porten og den anden til **[G]**-porten.



- Du skal bruge de specifikke RS-485 I/O-porte til hver kanal.

installation og tilslutning

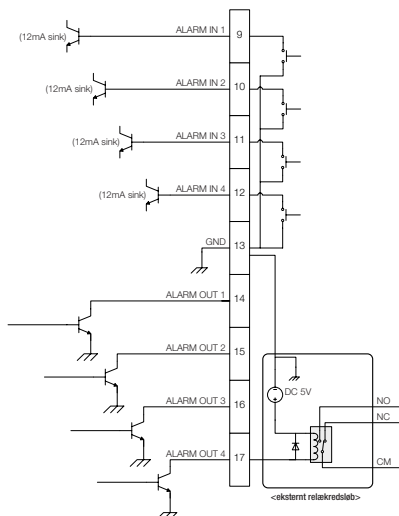
Tilslutning af ALARM UD

Alarmudgangssystemet er en type med åben kollektor, der er designet til at bruge et eksternt relæ.

Den maksimalt angivne værdi er DC +24 V, 100 mA.

Alarm I/O ledningsdiagram

- ! Til styring af strømmen med elektriske kontakter kræves et separat kredsløb.
- Tilføj et eller flere eksterne relækredsløb efter behov.
- Ved montering af et eksternt relækredsløb skal du installere dioderne i parallel for at beskytte kredsløbet mod overspænding.



Kanalindgangs/udgangsporttabel

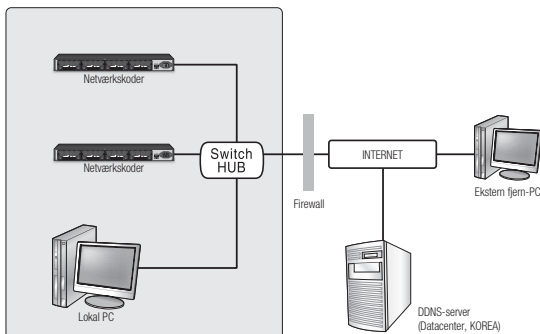
	RS-485	ALARM IN	ALARM OUT		RS-485	ALARM IN	ALARM OUT
CH 1	D1+, D1-	1, G	1, G	CH 3	D3+, D3-	3, G	3, G
CH 2	D2+, D2-	2, G	2, G	CH 4	D4+, D4-	4, G	4, G

Du kan indstille netværksindstillingerne i henhold til dine netværkskonfigurationer.

TILSLUTNING AF NETVÆRKSKODEREN DIREKTE TIL ET LOKALNETVÆRK

Tilslutning til netværkskoderen fra en lokal pc i LAN

1. Start en internetbrowser på den lokale PC.
2. Angiv IP-adressen på netværkskoderen i browserens adressefelt.
 - For informationer om standard-IP'en på netværkskoderen skal du se "**Kontrol af IP**". (side14)



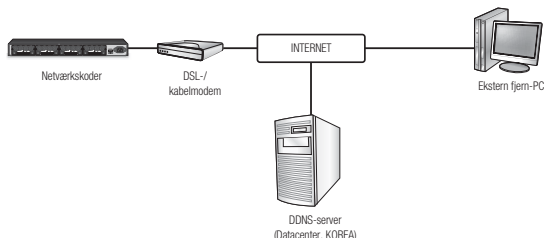
<Lokalt netværk>



- En fjern-pc i et eksternt internet uden for LAN-netværket er muligvis ikke i stand til at oprette forbindelse til netværkskoderen, der er installeret i intranettet, hvis port-forwarding ikke er korrekt indstillet, eller der er en firewall. I dette tilfælde skal du kontakte din netværksadministrator for at løse problemet.
- Som standardindstilling tildeles IP-adressen automatisk fra DHCP-serveren. Hvis der ikke er nogen DHCP-server tilgængelig, bliver IP-adressen sendt til 192.168.1.100~103. Brug IP-installationsprogrammet til at ændre IP-adressen. For flere detaljer om brug af IP-installationsprogrammet skal du se "**Statisk IP-opsætning**". (side 24)

netværksforbindelse og opsætning

TILSLUTNING AF NETVÆRKSKODEREN DIREKTE TIL ET DHCP-BASERET DSL/KABELMODEM

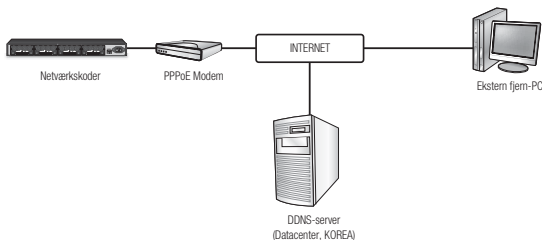


1. Slut netværkskoderen direkte til brugerens computer med et krydset kabel.
2. Kør IP-installationsprogrammet, og skift den tilhørende netværkskoders IP-adresse til en, hvortil der er adgang med en internetbrowser fra brugerens computer.
3. Gå til netværkskoderen med internetbrowseren.
4. Gå videre til siden [**Opsætning**].
5. Gå videre til [**Netværk**] – [**DDNS**], og konfigurer DDNS-indstillingerne.
6. Gå videre til [**Netværk**] – [**Grænseflade**], og angiv netværkstypen til [**DHCP**].
7. Kobl netværkskoderen fra brugerens computer, og slut den direkte til modemmet.
8. Genstart netværkskoderen.



- Se "**Registrering med DDNS**" om registrering af DDNS-indstillingerne. (side 44)
- Se "**DDNS**" om konfiguration af DDNS-indstillingerne. (side 43)
- Se "**Interface**" om indstilling af netværkstype. (side 42)

TILSLUTNING AF NETVÆRKSKODEREN DIREKTE TIL ET PPPoE-MODEM



1. Slut netværkskoderen direkte til brugerens computer med et krydset kabel.
2. Kør IP-installationsprogrammet, og skift den tilhørende netværkskoders IP-adresse til en, hvortil der er adgang med en internetbrowser fra brugerens computer.
3. Gå til netværkskoderen med internetbrowseren.
4. Gå videre til siden **[Opsætning]**.
5. Gå videre til **[Netværk] – [DDNS]**, og konfigurer DDNS-indstillingerne.
6. Gå videre til **[Netværk] – [Grænseflade]**, og angiv netværkstypen til **[PPPoE]**.
7. Kobl netværkskoderen fra brugerens computer, og slut den direkte til modemmet.
8. Genstart netværkskoderen.

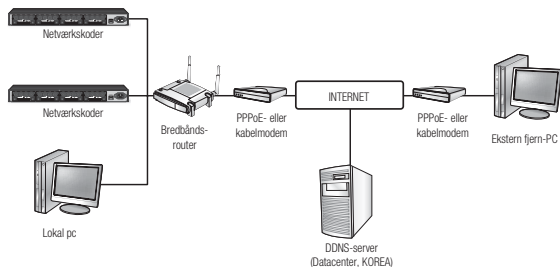


- Se "**Registrering med DDNS**" om registrering af DDNS-indstillingerne. (side 44)
- Se "**DDNS**" om konfiguration af DDNS-indstillingerne. (side 43)
- Se "**Interface**" om indstilling af netværkstype. (side 42)

netværksforbindelse og opsætning

TILSLUTNING AF NETVÆRKSKODEREN TIL EN BREDBÅNDS-ROUTER MED ET PPPoE/KABLE-MODEM

Dette gælder for et lille netværksmiljø, f.eks. private hjem, hjemmekontorer og almindelige butikker.



Konfiguration af netværksindstillinger på den lokale pc tilsluttet en Bredbånds-router

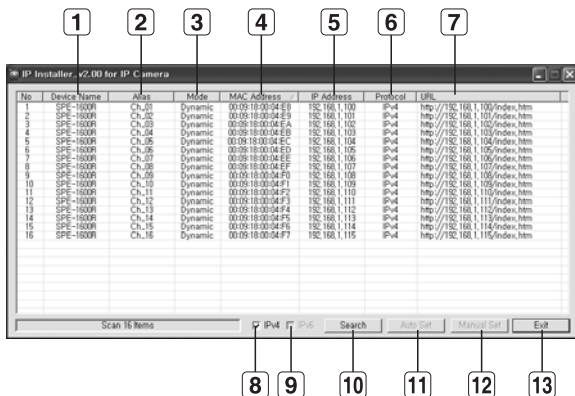
Følg nedenstående instruktioner for at konfigurere netværksindstillingerne på den lokale pc tilsluttet en Bredbånds-router

- Vælg: <Netværkskvarter> → <Egenskaber> → <Tilslutning til lokalt område> → <Egenskaber> → <Generelt> → <Internetprotokol (TCP/IP)> → <Egenskaber> → <Få automatisk en IP-adresse> eller <Brug følgende IP-adresse>.
- Følg nedenstående instruktioner, hvis du vælger <Brug følgende IP-adresse>:
 - eks.1) Hvis bredbånds-routerens adresse (LAN IP) er 192.168.1.1
IP-adresse : 192.168.1.100
Undernetmaske : 255.255.255.0
Standardgateway : 192.168.1.1
 - eks.2) Hvis bredbånds-routerens adresse (LAN IP) er 192.168.0.1
IP-adresse : 192.168.0.100
Undernetmaske : 255.255.255.0
Standardgateway : 192.168.0.1
 - eks.3) Hvis bredbånds-routerens adresse (LAN IP) er 192.168.xxx.1
IP-adresse : 192.168.xxx.100
Undernetmaske : 255.255.255.0
Standardgateway : 192.168.xxx.1



- Bredbånds-router adresse findes i dokumentationen til produktet.
- Se afsnittet "**Opsætning af videresendelse af portinterval (porttilknytning)**" i dokumentationen til bredbånds-routeren. (side 29)

ANVENDTE KNAPPER I IP-INSTALLATIONSPROGRAMMET



Element	Beskrivelse
1 Device Name	Viser den tilsluttede netværkskoders modelnavn. Klik på kolonnen for at sortere listen efter modelnavn. Søgningen stopper dog, hvis du klikker under søgningen.
2 Alias	Viser navnet på den tilsluttede enhed. (Side 53) Men hvis enhedsnavnet er standarden <Name>, vises kanalinformationer for koderen i stedet.
3 Mode	Viser enten <Static> eller <Dynamic> for den nuværende netværksstatus.
4 MAC(Ethernet) Address	Viser Ethernet-adressen på den tilsluttede netværkskoder. Klik på kolonnen for at sortere listen efter Ethernet-adresse. Søgningen stopper dog, hvis du klikker under søgningen.
5 IP Address	IP-adresse. Klik på kolonnen for at sortere listen efter IP-adresse. Søgningen stopper dog, hvis du klikker under søgningen. Fabriksindstillingen er "192.168.1.100~103"
6 Protocol	Viser indstillingerne for netværksprotokollen for den tilsluttede netværkskoder. Som standard er den indstillet til 'IPv4' ved afsendelsen. Hvis en netværkskoder indstilles til IPv6, vises IPv6.

netværksforbindelse og opsætning

Element	Beskrivelse
7 URL	DDNS URL-adresse, der giver mulighed for adgang fra det eksterne internet. Men dette erstattes med netværkskoderens <IP Address>, hvis DDNS-registreringen er mislykket.
8 IPv4	Søger efter netværkskodere med IPv4.
9 IPv6	Søger efter netværkskodere med IPv6. Aktiveret i et IPv6-kompatibelt miljø.
10 Search	Søger efter netværkskodere sluttet til det aktuelle netværk. Bemærk, at knappen er deaktiveret, hvis hverken IPv4 eller IPv6 er afkrydset.
11 Auto Set	IP-installationsprogrammet konfigurerer automatisk netværksindstillingerne.
12 Manual Set	Du skal konfigurere netværksindstillingerne manuelt.
13 Exit	Afslutter IP-installationsprogrammet.



- Angående IP-installationsprogrammet skal du kun bruge den version af installationsprogrammet, der leveres med installations-cd'en eller den seneste version, hvis den er tilgængelig. Du kan hente den seneste version fra produktets website.

STATISK IP-OPSÆTNING

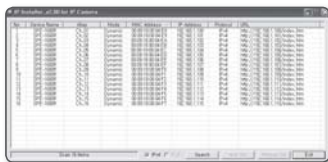
Manuel netværksopsætning

Kør programmet <IP Installer_vX.XX.exe> for at vise netværkskoderens søgeliste. Efter den første opstart bliver både [Auto Set] og [Manual Set] grå.



- Brug IP-installationsprogrammet i version 2.00 eller nyere.
- Knappen er deaktiveret for søgte IPv6-netværkskodere, der ikke understøtter denne funktion.

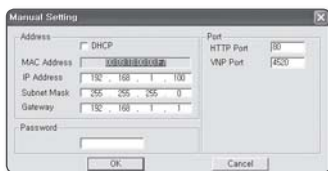
1. Vælg en ønsket netværkskoder blandt søgeresultaterne.
Kontroller MAC-adressen (Ethernet-adressen) for den valgte netværkskoder, den er trykt på dens bagside.
Både knappen [Auto Set] og [Manual Set] aktiveres.



2. Klik på [Manual Set].
Dialogboksen Manual Setting vises.
<IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port> og <VNP Port> på netværkskoderen vises med standardværdier.

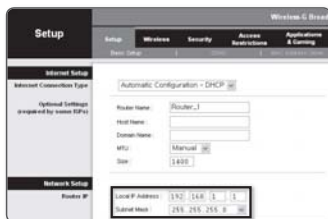
3. I ruden <Address> angives de nødvendige oplysninger.

- MAC (Ethernet) Address : Den pågældende netværksenheds MAC-adresse (Ethernet-adresse) indstilles automatisk, så du behøver ikke at indtaste den manuelt.



Hvis du bruger en Broadband Router

- IP Address: Indtast en adresse inden for IP-området leveret af Broadband Router.
eks.) 192.168.1.2~254,
192.168.0.2~254,
192.168.XXX.2~254
- Subnet Mask : Anvend værdien <Subnet Mask> som bruges i Broadband Router til netværkskoderens indstilling for <Subnet Mask>.



- Gateway : Brug Broadband Router <Local IP Address> til netværkskoderens indstilling af <Gateway>.



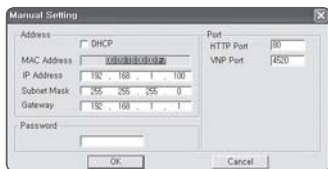
- Indstillingerne kan være forskellige alt efter modellen af den tilsluttede Broadband Router. Yderligere oplysninger findes i den pågældende routers brugervejledning.
- Se afsnittet "Opsætning af videresendelse af portinterval (porttilknytning)" i dokumentationen til bredbånds-routeren. (side 29)

Hvis du ikke bruger en Broadband Router

Kontakt din netværksadministrator for indstillingen <IP Address>, <Subnet Mask> og <Gateway>.

4. I ruden <Port> angives de nødvendige oplysninger.

- HTTP-port : Brug HTTP-portnummeret til adgang til netværkskoderen ved brug af en internetbrowser, standardværdien er 80. Brug drejeknappen til at ændre værdien for HTTP-porten.
- VNP Port : Bruges til at kontrollere videosignaloverførsel, standard er 4520.



5. Indtast adgangskoden.

Indtast adgangskoden for kontoen "admin", der anvendes ved adgang til netværkskoderen. Standardadgangskoden er "4321".

netværksforbindelse og opsætning

6. Klik på [OK].

Den manuelle netværksopsætning afsluttes.

Hvis to eller flere netværkskodere er sluttet til Broadband Router

Indstil feltet IP-adresse og portrelaterede felter forskelligt i netværkskoderne.

eks.)

Kategori	IP-relaterede indstillinger	Port-relaterede indstillinger
	IP Address / Subnet Mask / Gateway	HTTP Port / VNP Port
CH 1	192.168.1.100 / 255.255.255.0 / 192.168.1.1	8080 / 4520
CH 2	192.168.1.101 / 255.255.255.0 / 192.168.1.1	8081 / 4521
CH 3	192.168.1.102 / 255.255.255.0 / 192.168.1.1	8082 / 4522
CH 4	192.168.1.103 / 255.255.255.0 / 192.168.1.1	8083 / 4523
CH 5	192.168.1.104 / 255.255.255.0 / 192.168.1.1	8084 / 4524
CH 6	192.168.1.105 / 255.255.255.0 / 192.168.1.1	8085 / 4525
CH 7	192.168.1.106 / 255.255.255.0 / 192.168.1.1	8086 / 4526
CH 8	192.168.1.107 / 255.255.255.0 / 192.168.1.1	8087 / 4527
CH 9	192.168.1.108 / 255.255.255.0 / 192.168.1.1	8088 / 4528
CH 10	192.168.1.109 / 255.255.255.0 / 192.168.1.1	8089 / 4529
CH 11	192.168.1.110 / 255.255.255.0 / 192.168.1.1	8090 / 4530
CH 12	192.168.1.111 / 255.255.255.0 / 192.168.1.1	8091 / 4531
CH 13	192.168.1.112 / 255.255.255.0 / 192.168.1.1	8092 / 4532
CH 14	192.168.1.113 / 255.255.255.0 / 192.168.1.1	8093 / 4533
CH 15	192.168.1.114 / 255.255.255.0 / 192.168.1.1	8094 / 4534
CH 16	192.168.1.115 / 255.255.255.0 / 192.168.1.1	8095 / 4535



- For korrekt adgang til netværkskoderen skal det <Port> nummer, der anvendes, efterfølge adressen ved indtastning af adressen i internetbrowserens URL-felt, hvis den er konfigureret til at anvende et andet <HTTP Port> -nummer end 80.
eks.) http://IP-adresse: HTTP-port
http://192.168.1.100:8080

Automatisk netværksopsætning

Kør programmet <IP Installer_vX.XX.exe> for at vise netværkskoderens søgeliste. Efter den første opstart bliver både [Auto Set] og [Manual Set] grå.

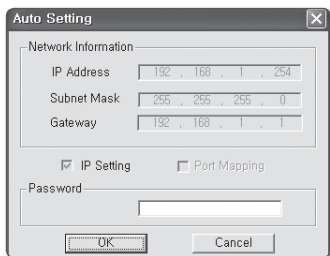


- Brug IP-installationsprogrammet i version 2.00 eller nyere.
- Knappen er deaktiveret for søgte IPv6-netværkskodere, der ikke understøtter denne funktion.

1. Vælg en ønsket netværkskoder blandt søgeresultaterne.
Kontroller MAC-adressen (Ethernet-adressen) for den valgte netværkskoder, den er trykt på dens bagside.
Både knapperne [Auto Set] og [Manual Set] aktiveres.



2. Klik på [Auto Set].
Dialogboksen Auto Setting vises.
<IP Address>, <Subnet Mask> og <Gateway> indstilles automatisk.
3. Indtast adgangskoden.
Indtast adgangskoden for kontoen "admin", der anvendes ved adgang til netværkskoderen.
Standardadgangskoden er "4321".
4. Klik på [OK].
Den automatiske netværksopsætning afsluttes.



netværksforbindelse og opsætning

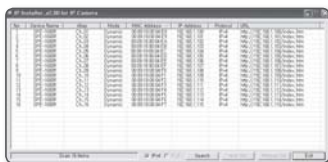
DYNAMISK IP-OPSÆTNING

Dynamisk IP-miljøopsætning

- Eksempel på dynamisk IP-miljø
 - Hvis en bredbånds-router med tilsluttede netværkskodere tilsluttes, tildeles en IP-adresse af DHCP-serveren
 - Når netværkskoderen er installeret direkte på et modem, der bruger DHCP
 - Hvis der tildeles IP'er af den interne DHCP-server via LAN

Kontrol af den dynamiske IP

1. Kør IP-installationsprogrammet på brugerens lokale maskine for at vise netværkskodere, der er allokeret med adressetypen **<Dynamic IP>** i listen.
2. Vælg en netværkskoder fra den søgte liste, og klik på knappen **[Manual Set]** for at afkrydse en **<Dynamic IP>**, der er tildelt netværkskoderen.
Hvis du fjerner afkrydsningen **<DHCP>**, kan du ændre IP eller **<Port>** til **<Static>**.

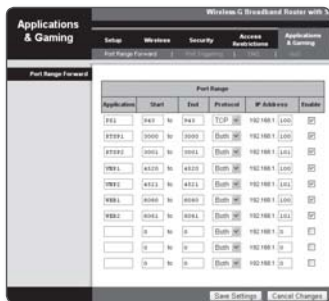


OPSÆTNING AF VIDERESEDELSE AF PORTINTERVAL (PORTTILKNYTNING)

Hvis netværkscoderen er installeret på en Broadband Router, er Broadband Router port forwarding-indstilling nødvendig for at tillade adgang til netværkscoderen fra en computer uden for Broadband Router netværk.

Manuel videresendelse af portinterval

1. Vælg **<Applications & Gaming>** - **<Port Range Forward>** i opsætningsmenuen på Broadband Router.
Se Broadband Router vejledning for oplysninger om, hvordan videresendelse af portintervallet indstilles for en tredjeparts-Broadband Router.
2. Vælg **<TCP>** og **<UDP Port>** for hver netværkscoder, der er sluttet til Broadband Router.
Hver portnummerindstilling i Broadband Router skal svare til netværkscoderens indstilling, der er angivet i indstillingen for **<Netværk>** - **<Port>**.
3. Klik bagefter på **[Save Settings]**.
Dine indstillinger gemmes.



- Ovenstående eksempelinstruktioner er baseret på CISCO's Broadband Router (model: LINKSYS).
- Indstillingerne kan være forskellige alt efter modellen af den tilsluttede Broadband Router. Yderligere oplysninger findes i den pågældende routers brugervejledning.

Port forwarding for netværkscoderen

Hvis netværkscoderen (SPE-1600R) er tilsluttet til routeren, skal du indstille port forwarding for hver af netværkscoderens kanaler (SPE-1600R) til port nr. TCP 943.

Hvis tilsluttet til SPE-1600R udstyret med alle 4 BLADEs (SPE-400B) skal du oprette 16 IP-adresser og indstille port forwarding for hver af dem.

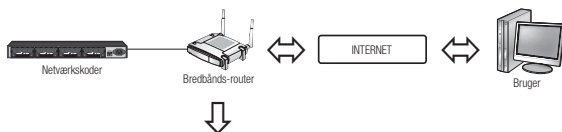


- Hvis du ikke indstiller TCP-port 943 korrekt på routeren, kan du ikke få nogen videostream fra netværkscoderens webside.

- TCP-port 943 er en port til et netværkscoderens Silverlight-policy-server.
- Du kan indstille en regel for port-forwarding af Broadband Router-enheden på dens webside til konfiguration.
- Du kan ikke ændre Silverlight-policy-serverporten for en netværkscoder.
- Andre portnumre end policy-serverporten er tilgængelige og kan tilpasses på netværkscoderens indstillingsside.

netværksforbindelse og opsætning

eks.) Hvis netværkskoderen (SPE-1600R) er tilsluttet til routeren



Bredbånds-router			
Start	Afslut	Protokol	IP-adresse
943	943	TCP	192.168.1.100
3000	3000	TCP/UDP	192.168.1.100
3001	3001	TCP/UDP	192.168.1.101
3002	3002	TCP/UDP	192.168.1.102
3003	3003	TCP/UDP	192.168.1.103
⋮	⋮	⋮	⋮

⋮	⋮	⋮	⋮
3013	3013	TCP/UDP	192.168.1.113
3014	3014	TCP/UDP	192.168.1.114
3015	3015	TCP/UDP	192.168.1.115
4520	4520	TCP/UDP	192.168.1.100
4521	4521	TCP/UDP	192.168.1.101
4522	4522	TCP/UDP	192.168.1.102
4523	4523	TCP/UDP	192.168.1.103
⋮	⋮	⋮	⋮

⋮	⋮	⋮	⋮
4533	4533	TCP/UDP	192.168.1.113
4534	4534	TCP/UDP	192.168.1.114
4535	4535	TCP/UDP	192.168.1.115
8080	8080	TCP/UDP	192.168.1.100
8081	8081	TCP/UDP	192.168.1.101
8082	8082	TCP/UDP	192.168.1.102
⋮	⋮	⋮	⋮

⋮	⋮	⋮	⋮
8093	8093	TCP/UDP	192.168.1.113
8094	8094	TCP/UDP	192.168.1.114
8095	8095	TCP/UDP	192.168.1.115

CH 1 (192.168.1.100)	
Webserverport	8080
VNP-port	4520
RTSP-port	3000
Policy-serverport	943

CH 2 (192.168.1.101)	
Webserverport	8081
VNP-port	4521
RTSP-port	3001
Policy-serverport	943

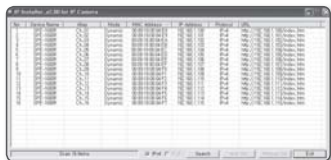
CH 3 (192.168.1.102)	
Webserverport	8082
VNP-port	4522
RTSP-port	3002
Policy-serverport	943

⋮

CH 16 (192.168.1.115)	
Webserverport	8095
VNP-port	4535
RTSP-port	3015
Policy-serverport	943

TILSLUTNING AF NETVÆRKSKODEREN FRA EN DELT, LOKAL PC

1. Kør IP-installationsprogrammet.
Det scanner efter tilsluttede netværkskodere og viser en liste over dem.
2. Dobbeltklik på den netværkskoder, der skal tilsluttes.
Internetbrowseren åbner og får adgang til netværkskoderen.



- Du har adgang til netværkskoderen ved at indtaste dens IP-adresse i den åbnede internetbrowsers adressefelt.

TILSLUTNING TIL NETVÆRKSKODEREN FRA EN FJERN-PC VIA INTERNETTET

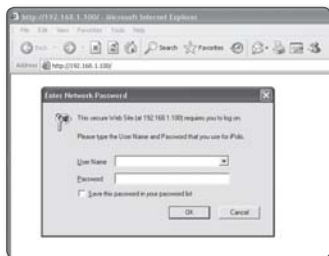
Da brug af IP-installationsprogrammet på en fjerncomputer, der ikke er i bredbånds-routerens netværksklynge, ikke er tilladt, kan brugere tilgå en netværkskoder i en bredbånds-routers netværk ved at bruge netværkskoderens DDNS-URL.

1. Hvis netværkskoderen er installeret på en Broadband Router, er Broadband Router port forwarding-indstilling nødvendig for at tillade adgang til netværkskoderen fra en computer uden for Broadband Router netværk.
2. For adgang til netværkskoderen fra en fjerncomputer med en internetbrowser skal du indtaste netværkskoderens DDNS-URL eller Broadband Router IP-adresse i browserens adressefelt.
eks.) [http://www.samsungipolis.com/\[Produktdomæne\]](http://www.samsungipolis.com/[Produktdomæne])

TILSLUTNING TIL NETVÆRKSODEREN

Normalt vil du gøre følgende

1. Start internetbrowseren.
2. Indtast netværkskoderens IP-adresse i adressefeltet.
eks.) • IP address (IPv4) : 192.168.1.100
→ http://192.168.1.100
- login-dialogen vises.
• IP address (IPv6) : 2001:0230:abcd:ffff:0000:0000:ffff:1111
→ http://[2001:230:abcd:ffff::ffff:1111]
- login-dialogen vises.



Hvis HTTP-porten ikke har værdien 80

1. Start internetbrowseren.
2. Indtast netværkskoderens IP-adresse og HTTP-portnummer i adressefeltet.
eks.) IP address : 192.168.1.100:HTTP Port number(8080)
→ http://192.168.1.100:8080 - login-dialogen vises.

Brug af URL

1. Start internetbrowseren.
2. Indtast netværkskoderens DDNS-URL-adresse i adressefeltet.
eks.) URL address : http://www.samsungipolis.com/[Produktområde]
- login-dialogen vises.

Sådan kontrolleres DDNS-adressen

Hvis netværksskoderen er sluttet direkte til et DHCP-kabel/DSL/PPPoE-modem, kan internetudbyderen (som brugeren har abonnement hos) allokere den dynamiske IP forskelligt ved hvert tilslutningsforsøg.

Hvis dette er tilfældet, vil du ikke blive informeret om, at IP-adressen ændres af DDNS.

Når du tilmelder en dynamisk IP-baseret enhed til DDNS-serveren, kan du nemt tjekke den ændrede IP, når du forsøger at få adgang til enheden.

Hvis du vil tilføje IP-adressen til <DDNS>-serveren: Besøg www.samsungipolis.com, registrer din enhed, og indstil DDNS-valget til <Samsung DDNS>, før du angiver bruger-ID til DDNS-serveren.

LOG PÅ

Standard-bruger-id er "**admin**", og standard-adgangskoden er "**4321**".

1. Indtast "**admin**" i indtastningsfeltet <User Name>.
2. Indtast "**4321**" i indtastningsfeltet <Password>.
Hvis adgangskoden er ændret, skal du indtaste den ændrede adgangskode i stedet.
3. Klik på [OK].
Hvis du er logget på, vil du se Live Viewer-skærmen.



- Af sikkerhedsgrunde skal du ændre adgangskoden i <System> - <Bruger>. Administrator-id'en "**admin**" er fast og kan ikke ændres.
- Hvis du markerer feltet "**Save this password in your password list**", når du har foretaget din indtastning, logges du på automatisk uden at blive bedt om at indtaste login-oplysninger fra og med næste gang.



- Hvis du bruger Internet Explorer 7.0 eller 8.0 som standard-webbrowser, kan du få vist den bedste billedkvalitet med et skærmforhold på 100 %. Hvis dette forhold reduceres, kan billedets kanter blive beskåret.

opsætningsskærm

Denne netværkskoder anvender Microsofts Silverlight til videoafspilning.

INSTALLATION AF SILVERLIGHT RUNTIME

Hvis der ikke er installeret Silverlight Runtime på din pc, eller du kun har installeret en ældre runtime-version, vil du automatisk blive omdirigeret til Silverlight Runtime installationsiden, når du starter web vieweren.

1. Klik på **<Click Here>**.



2. Når dialogboksen for filoverførsel åbnes, skal du klikke på **<Run>**.



3. Når overførslen er fuldført, skal du klikke på **<Run>**.



4. Silverlight Runtime-installationssiden vises. **<Install now>** for at fortsætte med installationen.



5. Vælg <Close>, når du er færdig.



6. Luk og genstart webbrowseren, og prøv at få adgang til Web Viewer.
Når Silverlight Runtime er korrekt installeret, vil du se Live-skærmen.



- Ved normal installation, skal du indstille blokering af popup på følgende måde:
eks.) **Internet Explorer → Funktioner**
→ **Blokering af pop op-vinduer**
→ **Tillad altid pop op-vinduer fra det aktuelle websted (A)**
- Men MAC OS X-brugere uden forbindelse til internettet kan anvende den medfølgende installations-CD til at installere Silverlight Runtime (kør den kørbare "Silverlight_xxx.dmg" på CD'en. Softwaren fører dig gennem installationen).



opsætningsskærm

BRUG AF LIVE-SKÆRMEN



Emne	Beskrivelse
1 Overvågning	Flyt til overvågningsskærmen.
2 Opsætning	Flyt til opsætningsskærmen.
3 Viewer-skærm	Viser Live-videoen på skærmen.
4 Alarmudgang	Aktiverer alarmudgangen.
5 Skjul alarmindikatoren	Skjuler alarmindikatoren nær kanten af fremvisningsskærmen.
6 Menuen Kamera	Bruges til at hente og tilpasse opsætningsmenuen for det tilsluttede kamera. Se "Brug af menuen kamera" for oplysninger om, hvordan man vælger og gemmer menuemnerne. (side 37)
7 PTZ	Du kan styre Panorering/Hældning/Zoom af de kameraer, der er tilsluttet netværkskoderen.
8 Digital PTZ	Du kan bruge musen til at aktivere digital zoom.

Emne	Beskrivelse
9 Skærmoptimering, fuld skærm	Justerer skærmen til den optimale størrelse og viser Fuld skærm-ikonet på Live-skærmen.
10 Optag	Gemmer snapshotet som en billedfil i formatet .bmp.
11 Videoformat	Du kan vælge en profiltipe i <Videoprofil> under opsætningsmenuen <Video>. - For IE 6.0-brugere: Tryk på knappen Gennemse ved siden af dialogboksen <Videoprofil>, og vælg en profiltipe igen, hvis den valgte profil ikke afspilles. - Hvis meddelelsen "Ugyldig codec" vises, skal du vælge en profiltipe fra profillisten igen.



- Hvis temperaturen falder til under driftsområdet, produceres muligvis intet videosignal. I sådanne tilfælde skal du vente på videoen.

BRUG AF MENUEN KAMERA

Bruges til at hente og tilpasse opsætningsmenuen for det tilsluttede kamera.

- Start Web Viewer.
- Klik på **[menuen kamera ()]** i venstre hjørne af Live-skærmen. Kameraets opsætningsmenu vises.
- Brug knapperne (▲/▼) til at flytte til det ønskede emne.
- Klik på **[Enter ()]**. Brug herefter knappen (▲/▼) til at flytte til det ønskede emne.
- For at få adgang til et emne i en undermenu: Klik på **[Enter ()]**.
- For at flytte til forrige menu eller afslutte menuopsætningen: Klik på knappen **[Annuller ()]**.



- Kameramenuen kan variere alt efter kamera. Yderligere oplysninger findes i brugervejledningen til kameraet.

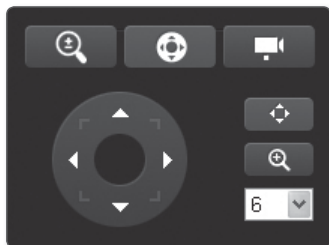
opsætningsskærm

Sådan styres PTZ-funktionen

Du kan styre det tilsluttede kamera, der understøtter PTZ-funktionerne, hvis det er sluttet til netværksskoderen.

- Hvis PTZ-funktionen ikke kan styres, skal du kontrollere RS-485 tilslutningens status for kameraet og netværksskoderen (side 17).
- Kontroller om både tilsluttet kamera og protokol er indstillet korrekt. (Side 41)

1. Tryk på knappen **[PTZ ()]**.
2. Når PTZ-knaplinjen vises på skærmen, så brug retningsknapperne til at justere kameravinklen, zoomfaktoren eller fokus efter dine ønsker.



Sådan optages snapshottet

1. Klik på [] det motiv, der skal optages. Dialogen til optagelse vises.
2. Klik på knappen **[Save]**.
Skærbilledet gemmes i den angivne sti.



- Hvis du anvender Internet Explorer 8 som standardwebbrowser, så vælg **"Funktioner-Internetindstillinger-Sikkerhed"**, og fravælg **"Brug beskyttet tilstand"**.



Sådan tilpasses til fuld skærm

1. Klik på knappen **[Fuld skærm ()]**.
Den tilsvarende knap vises i Vieweren.
2. Klik på knappen.
Herved tilpasses Viewer til hele skærmen.
3. Du kan forlade fuldskærmsvisning ved at trykke på **[Esc]** på tastaturet.

opsætningsskærm

OPSÆTNING

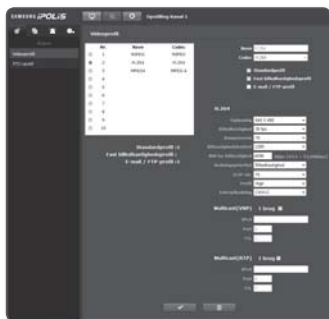
Du kan indstille netværkskoderens video-, netværks-, hændelses- og systemstandardindstillinger på netværket.

1. Klik på [Opsætning ()] på Live-skærmen.
2. Opsætningsskærmen vises.

OPSÆTNING AF VIDEO

Videoprofil

1. Vælg fanen <Video ()> i opsætningsmenuen.
2. Klik på <Videoprofil>.
3. Vælg et nummer på en <Videoprofil>.
4. Klik på indtastningsfeltet for hvert element, og indtast / vælg de ønskede værdier.
 - Genvejsmenuen kan variere, afhængigt af den valgte codec type.
 - Standardprofil : Dette er standard-videoprofilen.
 - Fast billedhastighedsprofil : Fastsætter billedhastigheden for den valgte profil uanset indstillingerne for andre profiler.
 - E-mail / FTP-profil : Video-profil, der skal overføres til den angivne e-mail eller FTP-sted.
 - Kun Motion JPEG-codec'en kan indstilles som e-mail/FTP-profil.
5. Klik på [Anvend ()], når du er færdig.



Sådan tilføjes en videoprofil

Du kan tilføje så mange codec'er, som der er brug for, således at der kan anvendes en række profiler på overvågningsfunktionen.

1. Vælg et profilnummer.
2. Angiv navnet og vælg et codec.
3. Angiv de betingelser, hvorunder den pågældende codec vil blive anvendt.
4. Angiv detaljerne for den valgte codec, inklusive opløsning og billedhastighed.
 - Opløsning : Indstiller videostørrelsen for filer af typerne MPEG4, H.264, og Motion JPEG.
 - Billedhastighed : Angiver billedhastigheden.
 - Kompression : Angiver komprimeringsgraden for videoen.
 - Bithastighedskontrol : Du kan vælge blandt konstant bithastighed og variabel bithastighed til komprimering. Konstant bithastighed (CBR) varierer videoens kvalitet og har fast overførselshastighed på netværket, mens variabel bithastighed lægger vægt på kvaliteten ved at variere overførselshastigheden på netværket.
 - Mål for bithastighed : Angiver bithastigheden, som du vil overføre videoen med.
 - Kodningsprioritet : Du kan indstille videooverførselsmetoden til Framerate eller Compression.
 - GOP-str. : Vælg en GOP-størrelse mellem 1 og 15.
 - Profil : Du kan vælge profilmetoden H.264.
 - Entropikodning : Reducerer det eventuelle kompressionstab som følge af kodning.
 - Multicast(VNP) : Angiver anvendelse af VNP-protokollen.
 - IPv4 : Angiv en IPv4-adresse, hvormed du kan oprette forbindelse til IPv4-netværket.
 - Port : Angiver videokommunikationsporten.
 - TTL : Indstiller TTL for VNP-pakken.
 - Multicast(RTP) : Angiver anvendelse af RTP-protokollen.
 - IPv4 : Angiv en IPv4-adresse, hvormed du kan oprette forbindelse til IPv4-netværket.
 - Port : Angiver videokommunikationsporten.
 - TTL : Du kan indstille TTL for RTP-pakken.

Hvad er GOP-størrelse?

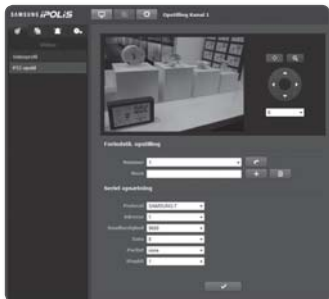
GOP (Group of Pictures - billedgruppe) er et sæt af videobilleder til MPEG-4 og H.264 formatkompression, der angiver en samling af billeder fra det indledende I-billede (nøglebillede) til næste I-billede. GOP består af 2 slags billeder: I-billede og P-billede. I-billedet er det grundlæggende billede for kompressionen, også kaldet nøglebilledet. Det indeholder fuldstændige billeddata. P-billedet indeholder kun de data, der har ændret sig i forhold til det foregående I-billede.

Du kan indstille mellem 1 og 15 som værdi for MPEG-4 og H.264 CODEC.

PTZ-opstil

Du kan aktivere zoomen og indstille de zoomforindstillinger, du ønsker.

1. Vælg fanen <Video ()> i opsætningsmenuen.
2. Klik på <PTZ-opstil>.
3. Indstil forindstillingen og den serielle port.
 - Forindstil.opstilling : Vælg et nummer op til 255, og klik på knappen Flyt for at justere kameraet til den vinkel, der er defineret i den valgte forindstilling. Men du kan specificere op til 128 forindstillinger for SAMSUNG E-protokoller.
 - Det tilsluttede kamera skal være konfigureret til at muliggøre kommunikation på en serial port.
 - Seriel opsætning : Du kan indstille det tilsluttede kameras RS-485-kommunikationstilstand.
 - Kameraet og enheden er tilsluttet via RS-485-kommunikationsporte.
 - Kameraet fungerer ikke korrekt, hvis det tilsluttede kameras kommunikationsrelaterede indstillinger er forkerte.
 - SAMSUNG-T/E og Pelco-P/D protokoller er understøttede.
4. Klik på [Anvend ()], når du er færdig.



Sådan tilføjes en forindstilling

1. Vælg det forindstillingsnummer, der skal tilføjes.
2. Indstil navnet til forindstillingen.
3. Tryk på knappen [Tilføj ()].

Sådan slettes en forindstilling

1. Vælg det forindstillingsnummer, der skal slettes.
2. Tryk på knappen [Slet ()].

Sådan flyttes forindstillingen

1. Vælg det forindstillingsnummer, der skal flyttes.
2. Tryk på knappen [Flyt ()].

NETVÆRKSOPSÆTNING

Interface

1. Vælg fanen <Netværk ()> i opsætningsmenuen.
2. Klik på <Interface>.
3. Indstil <Interface> og <IPv6-opstil> efter behov.
 - IP-type : Vælg en IP-forbindelsestype.
 - Manuel : Angiv IP-adresse, Subnet Mask, Gateway, DNS1 og DNS2.
 - DHCP : Angiv DNS1 og DNS2.
 - PPPoE : Angiv DNS1, DNS2, ID og adgangskode.
 - Hvis du indstiller den til <Manuel>, kan du angive IP, Subnet Mask, Gateway samt DNS 1 & 2 manuelt.
4. Klik på [Anvend ()], når du er færdig.



- MAC-adresse : Viser MAC-adressen.
 - IP-adresse : Viser den aktuelle IP-adresse.
 - Subnet Mask : Viser <Subnet Mask> for den indstillede IP.
 - Gateway : Viser <Gateway> for den indstillede IP.
 - DNS1/DNS2 : Viser DNS (Domain Name Service) serveradressen.
 - IPv6-brug : Angiver anvendelsen af IPv6.
 - Mode : Hvis du vælger <IPv6-brug>, aktiveres tilstanden.
 - IPv6-adresse : Skaffer IPv6-adressen for at få adgang til IPv6-netværket.
4. Klik på [Anvend ()], når du er færdig.
- ! ■ IP-adressetildelingen gendannes til standard DHCP. Hvis adressen på nuværende tidspunkt ikke kan detektere en DHCP-server inden for 1 minut, vender adressen automatisk tilbage til den tidligere indstilling.

Port

1. Vælg fanen <Netværk ()> i opsætningsmenuen.
2. Klik på <Port>.
3. Indtast hvert element i Port-menuen efter behov.
 - Port-værdier mellem 0 og 1023 samt 3702 er ikke tilgængelige.
 - HTTP-port : HTTP-portnummer, der anvendes ved adgang til netværksskoderen via en webbrowser. Standardværdien er 80(TCP).
 - VNP-Port : Angiver en port, som bruges til at overføre videosignaler med Samsung-protokoller.
 - RTSP-port : Bruges til at overføre videoer i RTSP-tilstanden, standard er 554.
 - Viser-port : Anvendes til at overføre videoer til Web Viewer, standard er 4520.
 - Portværdierne for Web Viewer skal være mellem 4502 og 4532. Hvis VNP-porten ligger inden for dette område, skal Web Viewer-porten specificeres med samme værdi som VNP-porten.
 - Silverlight policy-port : Silverlight bruges til at tillade at hente en netværksforbindelse. Standarden er 943.
 - Du kan ikke ændre Viewer/Silverlight-policy-serverporten for et kamera.
4. Klik på [Anvend ()], når du er færdig.



DDNS

Akronym for DDNS (Dynamic Domain Name Service) der erstatter den IP-adresse, der anvendes ved adgang til netværksskoderen med et generelt værtsnavn, der er lettere at huske.

1. Vælg fanen <Netværk ()> i opsætningsmenuen.
2. Klik på <DDNS>.
3. Vælg <DDNS>.
4. Angiv DDNS-elementerne i henhold til den valgte type.
 - Samsung DDNS : Vælg dette, hvis du bruger DDNS-serveren fra Samsung Techwin.



opsætningsskærm

- Offentlig DDNS : Vælg en af de angivne offentlige DDNS-servere, når du bruger en offentlig DDNS-server.
 - Hostnavn : Angiv navnet på den vært (dvs. værtsnavnet for Dyndns), der er registreret med DDNS-serveren.
 - Brugernavn : Angiv brugernavnet for DDNS-tjenesten. (dvs. det bruger-id, der er registreret med Dyndns)
 - Adgangskode : Angiv adgangskoden for DDNS-tjenesten. (dvs. den adgangskode, der er registreret med Dyndns)

5. Klik på **[Anvend ()]**, når du er færdig.

Registrering med DDNS

Sådan registrerer du dit produkt med Samsung DDNS

1. Besøg iPOLiS-webstedet (www.samsungipolis.com), og log på med en registreret konto.



2. Vælg **<DDNS SERVICE>**-**<MY DDNS>** fra den øverste menulinje.



3. Klik på **[PRODUCT REGISTRATION]**.
4. Angiv produktdomænet.

- Du skal udføre den dobbelte kontrol for det domæne, du har angivet.



5. Vælg en **<CLASSIFICATION>**, og angiv **<MODEL NUMBER>**.
6. Angiv produktets placering med en beskrivelse, hvis nødvendigt.
7. Klik på **[REGISTRATION]**.
Produktet vil blive føjet til produktlisten, som du kan kontrollere.



Sådan slutes til Samsung-DDNS'en i opsætningen af netværkskoderen

1. Sæt **<DDNS>** til **<Samsung DDNS>** fra DDNS-opsætningssiden.
2. Angiv det **<Hostnavn>**, som du angav, da du registrerede produktet på DDNS-stedet.
3. Klik på **[Anvend (✓)]**.
Når forbindelsen er oprettet, ser du meddelelsen **<(Gennemført)>** på skærmen.



Konfiguration af offentlig DDNS i indstillingerne for netværkskoderen

1. Åbn siden med DDNS-indstillinger, og vælg **<Offentlig DDNS>** for **<DDNS>**.
2. Indtast det tilhørende steds værtsnavn, brugernavn og adgangskode.
3. Klik på knappen **[Anvend (✓)]**.
Hvis forbindelsen oprettes korrekt, vises **<(Gennemført)>**.
4. Når du er færdig med konfigurationen: Klik på knappen **[Anvend (✓)]**.

opsætningsskærm

IP-filtrering

Du kan oprette en liste over IP'er, som du vil give adgang til eller nægte adgang til.

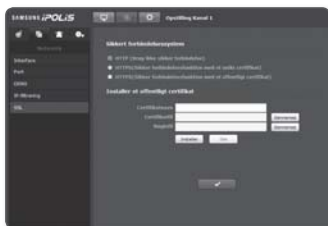
1. Vælg fanen <**Netværk** ()> i opsætningsmenuen.
2. Klik på <**IP-filtrering**>.
3. Vælg en <**Filtreringstype**>.
 - Afvis : Hvis du vælger dette, begrænses adgangen fra de IP'er, der føjes til filtreringen.
 - Tillad : Hvis du vælger dette, accepteres kun adgang fra de IP'er, der føjes til filtreringen.
4. Angiv den IP, som du ønsker at give eller nægte adgang fra.
For IPv4, er standard IPadressen 0.0.0.0, og standard-prefi xet er 32.
5. Vælg ønskede IP-adresser, der skal godkendes eller afvises blandt de indtastede IP-adresser. Kun de udvalgte IPadresser vil ltreres fra.
6. Klik på [**Anvend** ()], når du er færdig.



SSL

Du kan vælge et sikkert forbindelsessystem eller installere det offentlige certifikat til dette formål.

1. Vælg fanen <**Netværk** ()> i opsætningsmenuen.
2. Klik på <**SSL**>.
3. Vælg et sikkert forbindelsessystem.
 - For adgang til netværkskoderen via HTTPS-protokollen skal du indtaste dens IP-adresse i formatet "https://<Netværkskoder_IP>".
4. Søg og registrer det godkendte certifikat, der skal installeres på netværkskoderen.
For at installere certifikatet på netværkskoderen skal certifikatnavnet (brugerdefinerbart), certifikatfil udstedt af en certifikatmyndighed og dets nøglefil indtastes.
 - Elementet <**HTTPS (Sikker forbindelsessfunktion med et offentligt certifikat)**> vil kun være aktivt, hvis der er installeret et offentligt certifikat.
5. Klik på [**Anvend** ()], når du er færdig.



Installation af certifikatet

1. Indtast certifikatnavnet.
2. Vælg den certifikatfil og certifikatnøgle, der skal installeres, og klik på knappen [Installer ()].

Sletning af certifikatet

1. Klik på knappen [Slet ()].

OPSÆTNING AF BEGIVENHED

FTP / E-mail

FTP / E-mail-server kan tilknyttes til overførsel af det billede, der er gemt i netværkskoderens lager ved en alarm eller en hændelse.

1. Vælg fanen <Event ()> i opsætningsmenuen.
2. Klik på <FTP / E-mail>.
3. Vælg <FTP-konfiguration> eller <E-mail-konfiguration>, og indtast / vælg den ønskede værdi.
 - FTP-konfiguration
 - Serveradresse : Indtast IP-adressen på den FTP-server, som du overfører alarmbillederne til.
 - Bruger-id : Indtast den bruger-id, som du vil logge ind på FTP-serveren med.
 - Adgangskode : Indtast adgangskoden til brugerkontoen for at logge på FTP-serveren.
 - Upload-bibliotek : Angiv den FTP-sti, hvortil du vil overføre alarmbillederne.
 - Port : Standardporten på FTP-serveren er 21, men du kan bruge et andet portnummer i henhold til FTP-serverindstillingerne.
 - Passiv funktion : Vælg <Til>, hvis du har brug for at oprette forbindelse i passiv funktion på grund af firewall eller indstillinger af FTP-server.



opsætningsskærm

- E-mail-konfiguration

- SSL-brug : Afkryds denne mulighed, hvis du vil anvende en e-mail-server med SSL.
eks.) Google
- Serveradresse : Indtast IP-adressen på den e-mail-server, som du vil bruge til e-mail-overførslen.
eks.) SMTP.hotmail.com
- Brug autentificering : Vælg om der skal anvendes godkendelse.
- Bruger-id : Indtast bruger-id til at logge ind på e-mail-serveren.
- Adgangskode : Indtast adgangskoden til brugerkontoen for at logge på e-mail-serveren.
- Port : Standardporten på e-mail-serveren er 25, men du kan bruge et andet portnummer i henhold til FTP-serverindstillingerne.
- Modtager : Indtast adressen på e-mail-modtageren.
- Sender : Indtast adressen på e-mail-afsenderen. Hvis afsenderadressen er forkert, kan e-mailen fra afsenderen blive klassificeret som SPAM af e-mail-serveren, så den muligvis ikke bliver sendt.
- Emne : Indtast et emne for din e-mail.
- Brødtekst : Angiv meddelelsens tekst. Vedhæft alarmbillederne til den e-mail, du er ved at lave.

4. Klik på **[Anvend ()]**, når du er færdig.

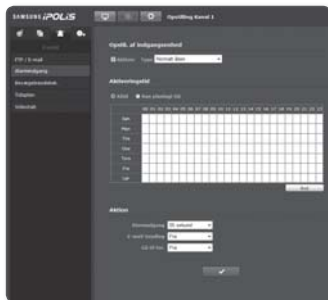
Alarmindgang

Du kan indstille alarmindgangstypen, aktiveringstiden og en funktionstilstand.

1. Vælg fanen **<Event ( >** i opsætningsmenuen.
2. Klik på **<Alarmindgang>**.

Sådan indstilles alarmindgang

1. Indstil **<Opstil. af indgangsenhed>** til **<Aktiver>**.
2. Angiv **<Type>**.
 - Type
 - Normalt åben : Den er normalt åben, men hvis den er lukket, udløses en alarm.
 - Normalt lukket : Den er normalt lukket, men hvis den er åben, udløses en alarm.
3. Angiv **<Aktiveringstid>**.
 - Altid : Kontrollerer altid, om der forekommer en alarm.
 - Kun planlagt tid : Kontrollerer om en alarm forekommer på en angivet ugedag i et angivet tidsrum. Den aktiveres i betjent tilstand, når der forekommer en alarm.
4. Angiven funktion, der skal udføres, hvis en alarm forekommer.
 - Alarmudgang : Angiv alarm-udgangstidspunktet i opsætningen af alarmindgangen.
 - E-mail Sending : Angiv brugen af e-mail-overførsel i opsætningen af alarmindgangen.
 - Gå til for. : Flytter til den angivne forudindstilling ved indstilling af alarmindgangen.
5. Klik på **[Anvend ()]**, når du er færdig.



opsætningsskærm

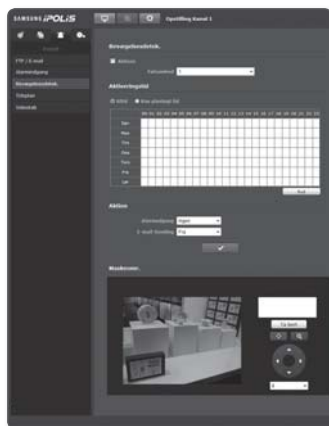
Bevægelsesdetek.

Du kan indstille destinationsdetekteringsområde og bevægelse, samt alarmsignal-output.

1. Vælg fanen <Event ()> i opsætningsmenuen.
2. Klik på <Bevægelsesdetek.>.

Sådan indstilles bevægelsesdetektering

1. Indstil <Bevægelsesdetek.> til <Aktiver>.
2. Angiv <Følsomhed>.
 - Følsomhed : Indstiller bevægelsesdetekterings følsomhedsniveau.
- 1 : LAV, 2 : MEDIUM, 3 : HØJ
3. Indstiller aktiveringstiden og -betingelserne.
 - Se "Alarmindgang" om, hvordan du indstiller <Aktiveringstid> og <Aktion>. (side 49)
4. Vælg om maskeringszonen skal vises eller ej.
Du kan højst indstille fire maskeringszoner. Træk det ønskede område med musen for at indstille et maskeområde. Bevægelsesdetektion er aktiveret i det indstillede maskeområde.
For at slette det valgte område: Klik på knappen [Ta bort ()].
5. Klik på [Anvend ()], når du er færdig.



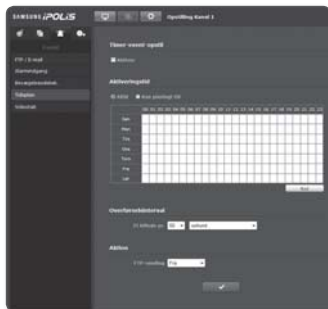
Tidsplan

Du kan konfigurere, så en begivenhed vil finde sted på et planlagt tidspunkt, uanset den faktiske forekomst af begivenheden.

1. Vælg fanen **<Event ( >** i opsætningsmenuen.
2. Klik på **<Tidsplan>**.

Sådan indstilles timer-begivenheden

1. Indstil **<Timer-event-opstil>** til **<Aktiver>**.
2. Angiv **<Aktiveringstid>**.
 - **Altid** : Aktiveres altid i betjent tilstand ved det indstillede interval.
 - **Kun planlagt tid** : Aktiveres periodisk i betjent tilstand på angivet dato og klokkeslæt.
3. Angiv **<Overførselsinterval>**.
4. Angiv optagelsesbetingelserne.
 - **FTP-sending** : Angiv brugen af FTP-overførsel, hvis der indtræffer en begivenhed.
5. Klik på **[Anvend ()]**, når du er færdig.



opsætningsskærm

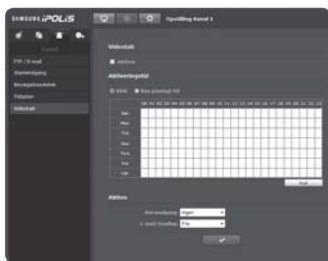
Videotab

Du kan indstille alarmen til at genereres ved en kameraafbrydelse, som forårsager videotab.

1. Vælg fanen <Event ()> i opsætningsmenuen.
2. Klik på <Videotab>.

Sådan indstilles videotab

1. Indstil <Videotab> til <Aktiver>.
2. Indstiller aktiveringstiden og -betingelserne.
 - Se “Alarmindgang” om, hvordan du indstiller <Aktiveringstid> og <Aktion>. (side 49)
3. Klik på [Anvend ()], når du er færdig.



SYSTEMOPSÆTNING

Produktinformation

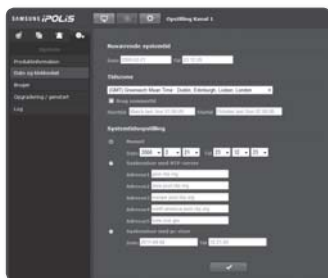
1. Vælg fanen <System ()> i opsætningsmenuen.
2. Klik på <Produktinformation>.
3. Kontroller netværkskoderens informationer, eller angiv en detaljeret beskrivelse, der svarer til installationsmiljøet.
 - Enhedsnavn : Giv et enhedsnavn, der vises på Live-skærmen.
 - Placering : Indtast den placering, hvor netværkskoderen er installeret.
 - Beskrivelse : Indtast detaljerede informationer, der beskriver den placering, hvor netværkskoderen er installeret.
 - Memo : Angiv en forklaring for netværkskoderen med henblik på bedre forståelse.
 - Sprog : Vælg sproget til netværkskoderens menu og til webbrowseren.
4. Klik på [Anvend ()], når du er færdig.

 ■ Produktrelaterede informationer tillader kun engelsk som input.



Dato og klokkeslæt

1. Vælg fanen <System ()> i opsætningsmenuen.
2. Klik på <Dato og klokkeslæt>.
3. Indstil netværkskoderens tid.
 - Nuværende systemtid : Viser systemets aktuelle tidsindstillinger.
 - Tidszone : Angiv den lokale tidszone baseret på GMT.
 - Brug sommertid : Hvis dette er afkrydset, så vil klokkeslættet være indstillet en time før den lokale tidszone for den angivne tidsperiode. Denne indstilling vises kun i områder, hvor der anvendes sommertid.



opsætningsskærm

- Systemtidsopstilling : Angiv klokkeslæt og dato, der skal anvendes på systemet.
 - Manuel : Angiv klokkeslættet manuelt.
 - Synkroniser med NTP-server : Synkroniser med klokkeslættet for den angivne serveradresse.
 - Synkroniser med pc-viser : Synkroniserer klokkeslættet med den tilsluttede PC.

4. Klik på [**Anvend** ()], når du er færdig.



- Hvis **<Synkroniser med pc-viser>** er valgt, skal netværkskoderens standardtidszone svare til pc'ens tidszone.
- Indstilling af klokkeslæt for hver af de 4 kanaler skal angives separat. Vælg NTP eller PC Sync, hvis du vil udføre tidssynkroniseringen.

Bruger

1. Vælg fanen **<System ()>** i opsætningsmenuen.

2. Klik på **<Bruger>**.

3. Angiv de nødvendige brugeroplysninger.

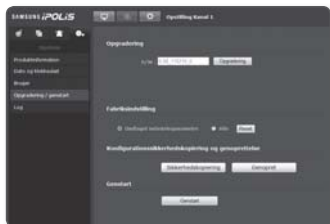
- Ændring af administrator-adgangskode : Skift den aktuelle adgangskode for administratoren.
- Gæsteopstilling : Hvis **<Gæsteadgang>** er tilladt, har enhver gæst adgang til Web Viewer-skærmen, men kan kun vise Live viewer-skærmen.
- nuværende bruger : Du kan ændre brugerens informationer og justere tilladelsesniveauet for en bruger, som er indstillet til **<Aktiver>**.
 - Video : Du kan vælge en videoprofil i Live viewer-skærmen.
 - Kontrolknapper : Du kan styre netværkskoderens menu, PTZ- og alarmknapper.

4. Klik på [**Anvend** ()], når du er færdig.



Opgradering / genstart

1. Vælg fanen <**System** ()> i opsætningsmenuen.
2. Klik på <**Opgradering / genstart**>.
3. Vælg det ønskede element, og indstil det til en passende værdi.
 - **Opgradering** : Udfører opgradering af systemet.
 - **Fabriksindstilling** : Nulstiller systemet til fabriksindstillingerne.
 - Undtaget netværksparametre :
Nulstil alle andre indstillinger end indstillinger af interface/port/DDNS/IP-filtrering.
 - Alle : Initialiserer alle indstillinger i netværkskoderen, herunder konfiguration til fabriksstandarderne. (dog vil logininformationen ikke blive nulstillet)
 - Hvis du nulstiller netværkskoderen, justeres netværksindstillingerne, så DHCP kan aktiveres. Hvis der ikke er nogen DHCP-server i netværket, skal du køre IP-installationsprogrammet for at ændre de grundlæggende netværksindstillinger såsom IP-adresse, undernetmaske, gateway osv., inden du kan oprette forbindelse til netværket.
 - **Konfigurationssikkerhedskopiering og genoprettelse** : Foretager sikkerhedskopiering af de aktuelle systemindstillinger, før gendannelse udføres. Systemet genstarter automatisk efter sikkerhedskopiering eller genoprettelse.
 - **Genstart** : Genstarter systemet.
4. Klik på [**Genstart** ()], når du er færdig.

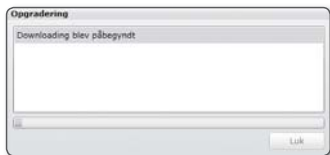


Sådan udføres opgraderingen

1. Klik på [**Opgradering**].
2. Klik på [**Gennemse**], og angiv en fil til opgradering.
3. Klik på [**Send**].
4. Dialogboksen "Opgradering" vises, med status vist for neden.



- Hvis du afslutter opgraderingen med magt, vil opgraderingen ikke blive fuldført korrekt.



opsætningsskærm

Sådan gemmer du de aktuelle indstillinger og gendanner indstillingerne for sikkerhedskopiering

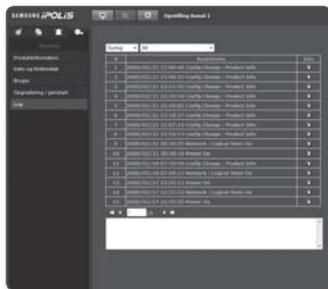
1. Klik på **[Sikkerhedskopiering]**.
Dialogboksen Save As vises.
2. Angiv sikkerhedskopieringssti med et korrekt filnavn, og klik på **[Save]**.
Den sikkerhedskopierede fil gemmes i den angivne sti med filtypen ".bin".
3. For at gendanne sikkerhedskopieringsindstillingerne skal du klikke på **[Genopret]**.
4. Vælg en sikkerhedskopieringsfil, og klik på **[Open]**.



Log

Du kan kontrollere systemloggen eller begivenhedsloggen.

1. Vælg fanen <System ()> i opsætningsmenuen.
 2. Klik på <Log>.
 3. Vælg en søgningstype.
 - Syslog : Du kan kontrollere systemets logfiler, når der registreres systemændringer, inklusive tidsoplysninger.
 - Evtlog : Du kan kontrollere begivenhedslogs inklusive tidsoplysninger.
 4. Vælg et element at søge efter i den rigtige logliste.
 - Hvis du vælger <All> i rullelisten øverst til venstre, vil alle logfiler for den relevante logtype blive vist.
 5. Hvis en side ikke kan vise alle tilgængelige logfiler, skal du bruge de nederste knapper til at flytte til forrige, næste eller sidste element.
- 
- Hvis du ønsker at få vist de detaljerede oplysninger om en log, skal du klikke på [Info ()] i loggens højre kolonne, vil loginformationen blive vist i den nederste rude.
 - Hver side viser 15 logfiler med den nyeste vist øverst.
 - Listen over begivenheds-/systemlogfiler kan indeholde op til 1000 logfiler. Herefter vil den ældste blive slettet, hver gang der oprettes en ny log.



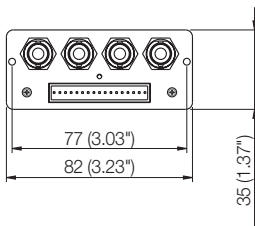
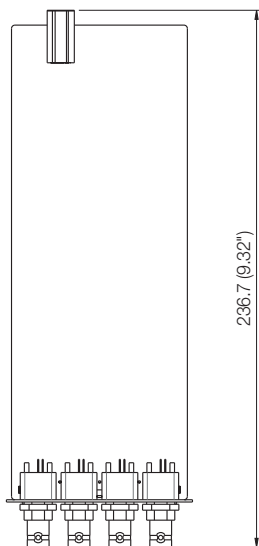
SPECIFIKATION

Elementer		Beskrivelse
Automatisk sporing	Videoindgang	4 CVBS : 1,0 V p-p / 75Ω komposit, NTSC/PAL Auto-Detekt
	Video Out	-
	Deinterlacing-filter	Indbygget
	Begivenhed Udløser	Bevægelsesdetektering, Alarmindgang, Videotab
	Alarm-indgang/udgang	indgange 4 stk. / udgange 4 stk.
	Fjernstyringsgrænseflade	RS-485 port x4 (Halv duplex)
	RS-485-protokol	SAMSUNG-T/E, PELCO-P/D
Netværk	Ethernet	1000BASE-T
	Videokomprimeringsformat	H.264, MPEG-4, Motion JPEG
	Opløsning	NTSC : 704x480, 640x480, 352x240, 320x240 PAL : 704x576, 640x480, 352x288, 320x240
	Maks. Billedhastighed	NTSC : 30 bill./sek. (Per kanal) / PAL : 25 bill./sek. (Per kanal)
	Justering af Videokvalitet	H.264 / MPEG-4 : Komprimeringsniveau, kontrol med målbithastighed Motion JPEG : Kontrol med kvalitetsniveau
	Kontrolmetode til Bithastighed	H.264 / MPEG-4: CBR eller VBR Motion JPEG : VBR
	Stream-mulighed	Flere streams (op til 10 profiler)
	Lydindgang/udgang	-
	Lydkomprimeringsformat	-
	Lydkommunikation	-
	IP	IPv4, IPv6

Elementer		Beskrivelse
Netværk	Protokol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS, ONVIF
	Sikkerhed	HTTPS (SSL) login-godkendelse Digest login-godkendelse IP-adressefiltrering Brugeradgangsslog
	Stream-metode	Unicast / Multicast
	Maks. Brugeradgang	10 brugere i Unicast-tilstand
	Hukommelsesslot	-
	ONVIF-kompatibel	Ja
	Web Viewer	Understøttede operativsystemer : Windows XP / Vista / 7, Mac OS Understøttede browsere : Internet Explorer 7.0 eller nyere, Firefox, Chrome, Safari
	Central Administrationssoftware	NET-i viewer
Miljø	Driftstemperatur / Luftfugtighed	0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 80% relativ luftfugtighed
	Indtrængningsbeskyttelse	-
Elektrisk	Indgangsspænding	5V jævnstrøm
	Strømforbrug	Maks. 11 W
Mekanisk	Farve / Materiale	Sort / Metal
	Dimensions (BxHxD)	B82 x H35 x D236.7mm (3.23" x 1.37" x 9.32"), Stik inkluderet
	Vægt	165g

PRODUKTOVERSIGT

Enhed: mm (tommer)



PROBLEMLØSNING

PROBLEM	LØSNING
Kan ikke få adgang til netværkskoderen med en browser.	• Kontroller, om indstillingerne for <Netværk> i netværkskoderen er gyldige og korrekte. • Kontroller, om alle netværkskabler er tilsluttet korrekt. • Kontroller, om netværkskoderen korrekt har fået allokeret en dynamisk IP-adresse, når den anvendes i et DHCP-miljø. • Hvis tilsluttet med DDNS UR: Kontroller, om MAC-adresserne er indtastet korrekt. • Hvis netværkskoderen er installeret på en Bredbånds-router, så kontroller, om indstillingerne for port forwarding er udført korrekt.
Fremviser blev frakoblet under overvågning.	• Den eksisterende <Web Viewer>-tilslutning kan udløbe, hvis netværksindstillingerne for eller konfigurationen af netværkskoderen er ændret af en anden bruger. • Kontroller alle kabelforbindelser. • <Web Viewer>-tilslutningen kan blive afbrudt af ringe netværkstrafik eller -forhold, hvis netværkskoderen er sluttet til et PPPoE-netværk.
Jeg kan ikke slutte til systemet med en browserfane i Internet Explorer 7.0.	• Når du forsøger at slutte til systemet med en browserfane, deles de samme cookieinformationer, og det resulterer i fejl ved tilslutning. I stedet for at bruge en browserfane skal du derfor åbne et nyt browservindue for at slutte til systemet.
Deaktiver alle firewall-indstillingerne på din pc, og søg efter netværkskoderen igen.	• Deaktiver alle firewall-indstillingerne på din pc, og søg efter netværkskoderen igen.
Billeder overlapper.	• Kontroller, om to eller flere netværkskodere er konfigureret til at anvende forskellige adresser i stedet for at anvende den samme multicast-adresse. Hvis en enkelt adresse anvendes til flere netværkskodere, kan billederne overlappe.
Der er intet billede.	• Hvis videooverførselsmetoden er indstillet til multicast, så kontroller, om det lokale netværk, der er sluttet til netværkskoderen, har en router, der understøtter multicast.

OPEN SOURCE ANNOUNCEMENT

Some software components of this product incorporate source code covered under the BSD license as follows.

Component Name	License	License URL
lighttpd 1.4.25	BSD 2.0	http://www.opensource.org/licenses/bsd-license.html
librtsp 1.20	BSD 1.0	

lighttpd is a secure, fast, compliant, and very flexible web-server that has been optimized for high-performance environments. It has a very low memory footprint compared to other web servers and takes care of cpu-load. Its advanced feature-set (FastCGI, CGI, Auth, Output-Compression, URL-Rewriting and many more) make lighttpd the perfect webserver-software for every server that suffers load problems.

For more additional information, send email to help.cctv@samsung.com.

Copyright (C) 2004, Kneschke, incremental

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met :

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the 'incremental' nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1998-2001 University College London

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, is permitted provided that the following conditions are met :

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by the Computer Science Department at University College London.
4. Neither the name of the University nor of the Department may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHORS AND CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GPL/LGPL SOFTWARE LICENSE

The software included in this product contains copyrighted software that is licensed under the GPL/LGPL. You may obtain the complete Corresponding Source code from us for a period of three years after our last shipment of this product by sending email to help.cctv@samsung.com

If you want to obtain the complete Corresponding Source code in the physical medium such as CD-ROM, the cost of physically performing source distribution might be charged.

- GPL S/W
 - Base Kernel, Busybox, Sysvinit, dosfstools
 - LGPL S/W
 - gLibc, Inetutils
-

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C)1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software-- to make sure the software is free for all its users.

This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.

Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and

charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs ; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have.

You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps :

(1)copyright the software, and (2)offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the

original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

Version 2, June 1991 Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin S

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License.

The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law : that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License ; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as

you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty ; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions :
- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
 - b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
 - c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work

based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you ; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program. In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following :

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange ; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically

performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange ; or,

- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License.

However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you,

then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

- If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances. It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice. This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
 9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies

a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation ; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "ASIS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED

TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty ; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C)yyy name of author

This program is free software ; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation ; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY

WARRANTY ; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program ; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail. If the program is interactive, make it output a short notice like this when it starts in an interactive mode :

Gnomovision version 69,

Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO

WARRANTY ; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions ; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c' ; they could even be mouse-clicks or menu items-- whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample ; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989 Ty Coon, President of Vice This General Public License does not permit incorporating your program into proprietary programs. If your

program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the **GNU Lesser General Public License** instead of this License.

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft

license for software and other kinds of works. The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights

or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict

development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in

performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product

model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

- c) Convey individual copies of the object code with a copy of the written offer to provide the corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A “User Product” is either (1) a “consumer product”, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, “normally used” refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User

Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by

works containing it; or

- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this

License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license

from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, “control” includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage,

prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license

- (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or
- (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined

work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/ or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED

TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301

USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that

we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General

Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the “Lesser” General Public License because it does Less to protect the user’s freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users’ freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a “work based on the library” and

a “work that uses the library”. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called “this License”). Each licensee is addressed as “you”.

A “library” means a collection of software functions and/ or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The “Library”, below, refers to any such software library or work which has been distributed under these terms. A “work based on the Library” means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term “modification”).

“Source code” for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program

is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library. b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change. c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License. d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful. (For example, a function in a library to compute square roots has a purpose that is entirely

well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.) These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy,

it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a “work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a “work that uses the Library” with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a “work that uses the library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a “work that uses the Library” uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even

though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer’s own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections

1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that

(1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in

either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed

it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section

is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any

later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS

PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found. one line to give the library's name and an idea of what it does.

Copyright (C) year name of author

This library is free software; you can redistribute it and/ or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY

WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990 Ty Coon, President of Vice.

OpenSSL LICENSE

Copyright (c) 1998-2006 The OpenSSL Project. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment: "This product includes software developed by the OpenSSL Project for

use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.
5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.
6. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This product includes cryptographic software written by Eric Young (eyay@cryptsoft.com). This product includes software written by Tim Hudson(tjh@cryptsoft.com).

Original SSLeay License

Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved. This package is an SSL implementation written by Eric Young (eay@cryptsoft.com).

The implementation was written so as to conform with Netscapes SSL. This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed. If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement: "This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)" The word 'cryptographic' can be left out if the routines from the library being used are not cryptographic related :-).

4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement: "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The licence and distribution terms for any publicly available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution licence [including the GNU Public Licence.



Samsung Techwin ønsker at beskytte miljøet på alle stadier i fremstillingsprocessen, og tager flere skridt til at give kunderne mere miljøvenlige produkter. Eco-mærket repræsenterer Samsung Techwins vilje til at skabe miljøvenlige produkter, og angiver at maskinen opfylder EU's RoHS-direktiv.



Korrekt bortskaffelse produktet (Elektrisk og elektronisk affald)

(Gælder i EU og andre europæiske lande med separate indsamlingssystemer)

Dette mærke på produktet eller dets dokumentation indikerer, at produktet og dets elektroniske tilbehør (f.eks. oplader, hovedtelefon og USB-kabel) ikke må bortskaffes med andet husholdningsaffald ved slutningen af deres levetid. For at forhindre mulig skade på miljøet eller menneskers sundhed pga. ikke-kontrolleret bortskaffelse af affald bedes du adskille disse genstande fra andre affaldstyper og genbruge dem ansvarligt for at fremme den bæredygtige genanvendelse af materielle ressourcer.

Husholdninger bør kontakte enten den forhandler, hvor produktet blev købt, eller de lokale myndigheder for detaljer om, hvordan og hvor de kan afløse disse enheder for miljørigtig genbrug.

Virksomheder bør kontakte deres leverandør og undersøge betingelser og vilkår i indkøbsaftalen. Dette produkt og dets elektroniske tilbehør bør ikke blandes med andet kommercielt affald.



Korrekt bortskaffelse af batterierne i dette produkt

(Gælder i EU og andre europæiske lande med særlige retursystemer for batterier).

Mærket på dette batteri, dokumentationen eller emballagen betyder, at batterierne i dette produkt efter endt levetid ikke må bortskaffes sammen med andet husholdningsaffald. Mærkning med de kemiske symboler Hg, Cd eller Pb betyder, at batteriet indeholder kviksølv, cadmium eller bly over grænseværdierne i EU-direktiv 2006/66. Hvis batterierne ikke bortskaffes korrekt, kan disse stoffer være skadelige for menneskers helbred eller for miljøet.

For at beskytte naturens ressourcer og fremme genbrug, skal batterier holdes adskilt fra andre typer affald og genanvendes via dit lokale, gratis batteriretursystem.



SALGSNETVÆRK

SAMSUNG TECHWIN CO., LTD.

Samsungtechwin R&D Center, 701, Sampyeong-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea, 463-400
TEL : +82-70-7147-8740~60 FAX : +82-31-8018-3745

SAMSUNG TECHWIN AMERICA Inc.

100 Challenger Rd. Suite 700 Ridgefield Park, NJ 07660
Toll Free : +1-877-213-1222 Direct : +1-201-325-6920
Fax : +1-201-373-0124
www.samsungcctvusa.com

SAMSUNG TECHWIN EUROPE LTD.

Samsung House, 1000 Hillswood Drive, Hillswood Business
Park Chertsey, Surrey, UNITED KINGDOM KT16 0PS
TEL : +44-1932-45-5300 FAX : +44-1932-45-5325

www.samsungtechwin.com
www.samsungsecurity.com
www.samsungipolis.com