WISENET

NÄTVERKSKAMERA

Bruksanvisning

QNB-6002/QNB-8002

CE

Nätverkskamera
Bruksanvisning

Upphovsrätt

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Varumärke

Alla varumärken häri har registrerats. Namnet på den här produkten och övriga varumärken som omnämns i den här manualen är ett registrerat varumärke som tillhör respektive företag.

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- **Utseendet och specifikationerna kan ändras utan föregående meddelande.**
- **Initialt administratörs-ID är "admin" och lösenordet ska ställas in vid första inloggningen.**
  Ändra lösenordet var tredje månad för att säkert skydda den personliga informationen och för att förhindra skada från informationsstölden.
  Observera att det är ananvändarens ansvar att bibehålla säkerheten och andra problem som orsakas av fel hantering av lösenordet.

VIKTIGA SÄKERHETSANVISNINGAR

1. Läs de här instruktionerna.
2. Behåll de här instruktionerna.
3. Dölj alla varningar.
4. Följ alla instruktioner.
5. Använd inte apparaten nära vatten.
6. Rengör den nedsmutsade ytan på produkten med en torr eller fuktig, mjuk trasa.
   (Använd inte rengöringsmedel eller kosmetiska produkter som innehåller alkohol, lösningsmedel, ytaktiva ämnen eller oljebeståndsdelar eftersom dessa kan orsaka skador på produkten.)
7. Blockera inga ventilationsöppningar, installera i enlighet med tillverkarens anvisningar.
8. Installera inte nära några värmekällor, såsom element, värmeaggregat, spisar eller motsvarande apparater (inklusive förstärkare) som producerar värme.
9. Bryt inte mot säkerhetsreglerna för den polariserade eller jordade kontakten.
   En polariserad kontakt har två blad som är bredare än de andra. En jordad kontakt har två blad och ett tredje jordningsstift. Det breda bladet eller det tredje stiftet finns för din säkerhet. Om den medföljande kontakten inte passar i uttaget ska du kontakta en elektriker för att byta det gamla uttaget.
10. Skydda strömsladden från att utsättas för tryck på grund av att du går på den, eller att den kläms, samt skydda bekväma recepterorer och den punkt där de går ut ur apparaten.
11. Använd bara tillbehör/accessoarer som specificeras av tillverkaren.
12. Använd bara med kundvagn, stativ, konsol eller bord som specificeras av tillverkaren eller säljs med apparaten. När en kundvagn används ska du vara försiktig när du flyttar kundvagnen/apparaten för att undvika att skada den till följd av att den välter.



13. Koppla från den här apparaten under åskväder eller när den inte används under längre perioder.
14. Överlåt all service åt behörig personal Service krävs när apparaten har skadats på något sätt, exempelvis då en elsladd eller kontakt har skadats, vätska har spillts ut eller föremål har ramlat ned på apparaten, om apparaten har utsatts för regn eller fukt, inte fungerar normalt eller har fallit.
15. Produkten är avsedd att strömförsörjas av en listad strömkälla märkt ”Klass 2” eller ”LPS” och klassad från 12 V DC, 0,5 A eller PoE 0,13 A. (QNB-6002)
16. Produkten är avsedd att strömförsörjas av en listad strömkälla märkt ”Klass 2” eller ”LPS” och klassad från 12 V DC, 0,5 A eller PoE 0,13 A. (QNB-8002)
17. Denna produkt är avsedd att strömförsörjas med isolerad ström.
18. Om du använder för mycket kraft vid installation av produkten kan kameran skadas och sluta fungera som den ska.
    Om du installerar produkten med tvång, med verktyg som inte är godkända, kan produkten skadas.
19. Installera inte produkten på en plats där kemiska ämnen eller oljeångor förekommer eller kan alstras. Eftersom ätbara oljor, såsom sojabönsolja, kan skada eller förvrida produkten, får du inte installera produkten i köket eller nära köksbordet.
    Det kan orsaka skada på produkten.
20. Vid installation av produkten ska du vara försiktig så du inte låter produktens yta fläckas ned av kemiska medel.
    Vissa kemiska lösningsmedel, såsom rengöringsmedel eller vidhäftningsmedel, kan orsaka allvarlig skada på produktens yta.
21. Om du installerar/demonterar produkten på ett annat sätt än det som rekommenderas kan produktionsfunktionerna/prestandan inte garanteras.
    Installera produkten genom att hänvisa till “Installation & anslutning” i bruksanvisningen.
22. Installation eller användning av produkten i vatten kan orsaka allvarlig skada.
23. Den här enheten har verifierats med STP-kabel. För effektivt skydd av din produkt och din egendom mot transient överspänning, blixtnedslag och kommunikationsavbrott rekommenderas passande GND- och STPkabel.

VARNING

FÖR ATT MINSKA RISKEN FÖR BRAND OCH ELEKTRISK KORTSLUTNING SKA DU INTE UTSÄTTA PRODUKTEN FÖR REGN ELLER FUKT. FÖR INTE IN NÅGRA METALLFÖREMÅL I VENTILATIONSGALLREN ELLER I ANDRA ÖPPNINGAR PÅ ENHETEN.

Apparaten får inte utsättas för droppar eller fukt och därför skall inte föremål som innehåller vatten, exempelvis vaser, placeras på apparaten.

Produkten måste fästas på ett säkert sätt i väggen/taket och enligt installationsinstruktionerna, för att förhindra skador.

OBSERVERA



FÖRKLARING AV GRAFISKA SYMBOLER



Blixtsymbolen med pilsymbol, inom en likformig triangel, är avsedd att varna användaren för att det finns ”farlig spänning” inom produktens infattning, som är tillräckligt stark för att utföra en risk för att personer ska utsättas för kortslutning.



Utropstecknet inom en likformad triangel är avsett att informera användaren om att det finns viktiga drifts- och underhållsanvisningar (service) i litteraturen som medföljer produkten.

Klass I konstruktion

En apparat med KLASS I konstruktion ska anslutas till ett jordat EL-uttag.

Batteri

Batterier (löstagbart batteri eller installerat) får inte utsättas för extrem hetta, t.ex. direkt solljus eller eld.

Batteriet kan inte bytas.

Frånkopplingsenhet

Koppla från kontakten från apparaten om den är trasig. Kontakta en reparatör som finns i närheten.

Om du befinner dig utanför USA kan det användas en HAR-kod från en godkänd myndighet som är engagerad i tillbehörsmontering.

OBSERVERA

Explosionsrisk om batteriet ersätts med ej korrekt sort.
Kassera använda batterier enligt instruktionerna.

De här serviceanvisningarna ska bara användas av kvalificerad servicepersonal.
För att minska risken för elektrisk kortslutning ska du inte utföra någon annan service än den som finns i användaranvisningarna om du inte är behörig för det.

Produktens VIDEO-utterminal medföljer för att förenkla installationen och rekommenderas inte för övervakningsändamål.

Använd ingångsströmmen med bara en kamera och koppla bort alla andra enheter.

ITE ska endast anslutas till PoE-nätverk utan dirigering till den yttre anläggningen.

Läs följande rekommenderade säkerhetsföreskrifter noggrant.

- Placera inte den här apparaten på en ojämn yta.
- Installera inte på en yta där den utsätts för direkt solljus, nära värmeaggregat eller på en mycket kall plats.
- Placera inte den här apparaten i närheten av ledande material.
- Försök inte utföra service på apparaten själv.
- Ställ inte ett glas vatten på produkten.
- Installera inte produkten nära några magnetiska källor.
- Blockera inte ventilationsöppningarna.
- Placera inte tunga föremål på strömsladden.
- Använd skyddshandskar när du monterar/nedmonterar kameran.
  Den höga temperaturen på kamerans yta kan orsaka brännskador.

Bruksanvisningen är en vägledningsbok för hur du använder produkterna.

Användarsymbolerna i boken har följande betydelser.

- Referens : När det gäller att erbjuda information för att fungera som en hjälp för produktanvändning
- Obs : Om det finns någon risk för skador på produkter eller den mänskliga hälsan om anvisningarna inte följs

※ Läs den här manualen av säkerhetsskäl innan du använder produkterna och förvara den på en säker plats.

Vi garanterar inte kvaliteten på tredjepartsprodukter (t.ex. linser, tillbehör) som du köper separat.

I vissa installationsmiljöer kan det förekomma störningar i radiokommunikationen.
När störningar av elektromagnetiska vågor uppstår mellan produkten och radiokommunikationsenheten rekommenderar vi att hålla dessa två på visst avstånd eller att rikta mottagarantennen åt ett annat håll.

INNEHÅLL

ÖVERSIKT 3

3 Viktiga Säkerhetsanvisningar
6 Rekomenderade Datorspecifikationer
6 Specifikationer För Rekommenderade Micro SD/SDHC/SDXC Minneskort
6 Rekommenderade specifikationer för NAS
6 Vad ingar
7 Övergripande Översikt

INSTALLATION & ANSLUTNING 9

9 Montera Linsen
10 Mata In/Mata ut Micro SD-minneskort
10 Anslutning till en Annan Enhet

NÄTVERKSANSLUTNING OCH INSTALLATION 13

13 Ansluta Kameran Direkt till Lokalt Nätverk
13 Ansluta Kameran Direkt till ett DHCP-Baserat DSL/Kabelmodem
14 Använda Device Manager
14 Automatisk kamerasökning
14 Lösenordsinställning
14 Konfigurera IP-adress
14 Ansluta Kameran till en Bredbandsrouter med PPPoE-/Kabelmodem
15 Registrera kameran manuellt
16 Automatisk konfigurering av IP
16 Portintervallsinställning Framåt (portmappning)
17 Ansluta till Kameran Från en delad, Lokal Dator
17 Ansluta till Kameran Från en Fjärrdator via Internet

WEB VIEWER 18

18 Ansluta till Kameran
19 Lösenordsinställning
19 Inloggning
19 Kamerans webbvisningsinställningar

BILAGA 20

20 Felsökning
21 Open Source Announcement

REKOMENDERADE DATORSPECIFIKATIONER

- Processor : Intel(R) Core(TM) i7 3.4 GHz och senare
- RAM : 8G eller högre
- Rekommenderad webbläsare: Chrome
- Webbläsare som stöds: Chrome, Safari, Firefox, MS Edge(chromium based)
- Operativsystem som stöds : Windows, Mac, Linux, Android, iOS, Chrome
- Verifieringsmiljö
  - Windows 10: Google Chrome version 80 eller senare, Firefox version 72 eller senare, MS Edge version 83 eller senare
  - Mac 10.13/14: Safari version 11.0.1 eller senare

※ Hur videouppspelningen i Web viewer fungerar beror på användarens CPU och GPU.

SPECIFIKATIONER FÖR REKOMMENDERADE MICRO SD/SDHC/SDXC MINNESKORT

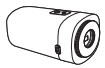
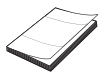
- Rekommenderad kapacitet: 16 GB till 128 GB (MLC-typ krävs)
- Rekommenderade tillverkare: SanDisk, Transcend
- Produkttyp: Hög hållbarhet
- Kompatibiliteten varierar beroende på korttillverkarna och typerna.

REKOMMENDERADE SPECIFIKATIONER FÖR NAS

- Rekommenderad kapacitet : 200 GB eller mer rekommenderas.
- För den här kameran rekommenderas användning av en NAS-enhet med följande tillverkarspecifikationer.
  Rekommenderade produkter: QNAP NAS, Synology NAS-enhet

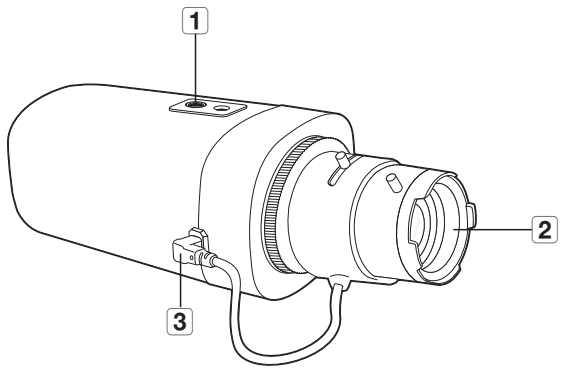
VAD INGAR

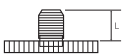
Kontrollera om kameran och tillbehören är inkluderade i produktförpackningen.
(Tillbehören kan variera med land.)

Utseende	Artikelnamn	Kvantitet	Beskrivning
	Kamera	1	
	Snabbguide (tillval)	1	
	Kabel för skärmtestning	1	Används för att testa kameraanslutningen för en bärbar skärm
	6-stifts terminalspärr	1	Används för in-/utgående terminaler
	Linsfäste	2	Installerad mellan kamera och lins för att justera fokus
Alternativ (medföljer ej)			
	CS- / C-lins		Tillbehörslins för montering i en kamera

ÖVERGRIPANDE ÖVERSIKT

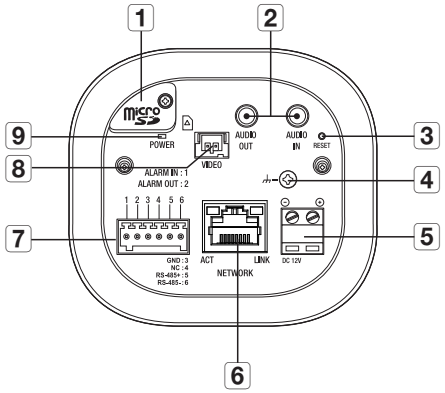
Framsidan



Post	Beskrivning
1 **Skruvhål på monteringskonsol**	Används för att fästa kameran på en monteringskonsol. ▪ Skruvstorlek : Det är specifikationen för skruvarna som används för att fästa kameran på stödet. 1/4" - 20 UNC L: 4,5 mm±0,2 mm (ISO-standard) eller 0,197" (ASA-standard) 
2 **Automatisk iris (tillval)**	Installerad på linsadaptern.
3 **Anslutning för automatisk iris**	Används för tillförsel av stöm och utgående signal som kontrollerar linsens iris.

▪ Monteringskonsol medföljer inte.
Mer information om hur du använder monteringskonsolen finns i produktdokumentationen.

Baksidan



Post	Beskrivning	
1 **Micro SD-minneskortsplats**	Fack för Micro SD-minneskort.	
2 **Terminal för ljud**	AUDIO OUT	Används för att ansluta högtalare.
	AUDIO IN	Används för att ansluta en mikrofon.
3 **Återställningsknapp**	Knappen återställer alla kamerainställningar till fabriksstandardinställningar. Håll nedtryckt i 5 sekunder för att starta om systemet. ! Om du återställer kameran justeras nätverksinställningarna så att DHCP kan aktiveras. Om det inte finns någon DHCP-server i nätverket, måste du köra programmet Device Manager för att ändra de grundläggande nätverksinställningarna som IP-adress, Subnätsmask, Gateway, osv. innan du kan ansluta till nätverket.	
4 **Ljusskyddande jordningsport**	Används för att ladda ur ljusströmmen på ett säkert sätt utåt för att skydda kameran.	
5 **Strömport**	Används för att koppla in strömkabeln.	
6 **Nätverksport**	Används för att ansluta PoE- eller Ethernet-kabeln för nätverksanslutning.	

Post	Beskrivning	
7 Alarm I/O-port	ALARM IN	Används för att ansluta sensorn för larmingång eller den externa dag/natt-sensorn.
	ALARM OUT	Används för att ansluta utgående alarmsignal.
	GND	Används för jordning.
	RS-485+	RS-485 datarad
	RS-485-	RS-485 datarad
8 Video ut	Utgående port för testövervakning av videoutgång. Använd testmonitorkabeln för att ansluta till en mobil display och kontrollera testvideon.	
9 Strömindikatorer	POWER	PÅ : När strömmen slås på AV : Om strömmen är frånslagen

- RS-485-port stöder endast direktanslutning med panorerings-/lutningsenheter och externa anslutningar med RS-485-kontroller stöds inte.

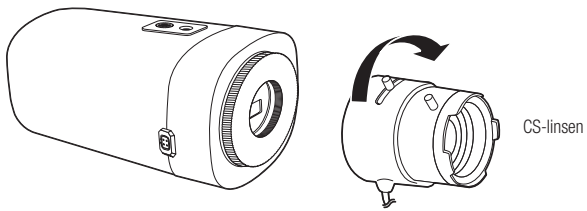
MONTERA LINSEN

Koppla från strömmen innan du fortsätter.

- C/CS-objektivet och C-adapterringen medföljer inte produktpaketet. Du får bara använda megalinsen i det här syftet.

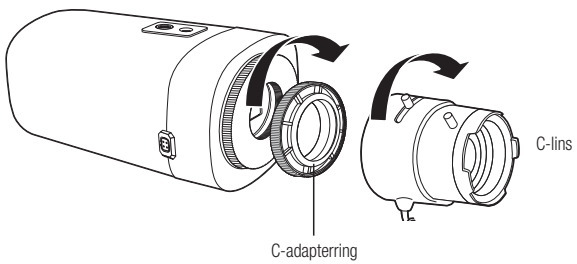
Montera CS-objektiv på en kamera

Vrid CS-linsen medsols för att fästa den.



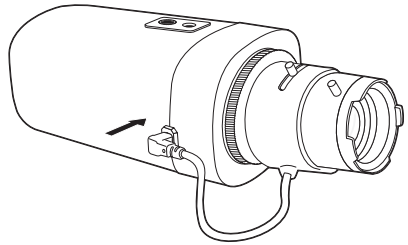
Montera C-objektiv på en kamera

Vrid C-sadapterringen medurs och vrid C-objektivet medurs.



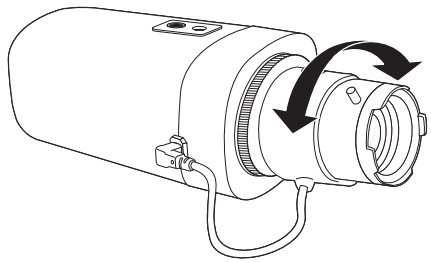
Ansluta den automatiska linskontakten

Passa in kameralinsens irisanslutning i kamerans anslutningsskåra.



Fokusering

Välj ut ett objekt att filma, vrid linsens zoomreglage för att justera förstoringen och fokusera sedan linsen så att objektet syns tydligt.



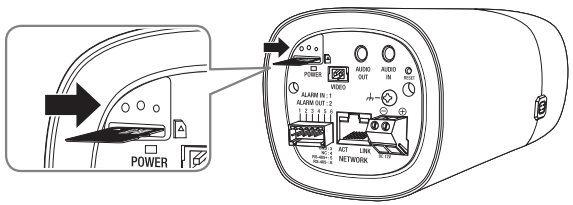
- Om du inte kan justera fokusen, sätt in ett eller två säteslinsfästen mellan kameran och linsen, montera dem och justera sedan fokusen igen.

MATA IN/MATA UT MICRO SD-MINNESKORT

- Koppla från strömkabeln från kameran innan du matar in Micro SD-minneskortet.
- För inte in Micro SD-minneskortet upp och ned med tvång. Annars kan du skada SD-minneskortet.

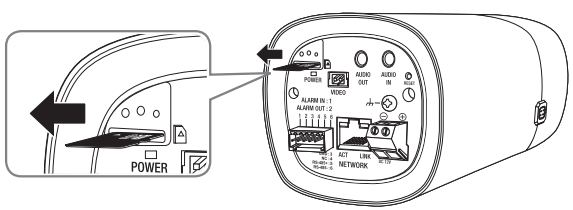
Mata in ett Micro SD-minneskort

För in Micro SD-minneskortet i pilens riktning så som visas i diagrammet.



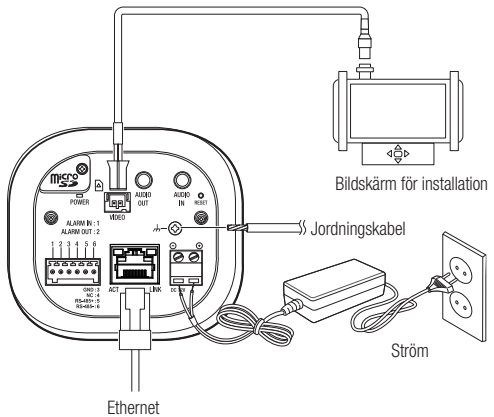
Mata ut ett Micro SD-minneskort

Tryck försiktigt nedåt på minneskortet så som visas i diagrammet för att mata ut det ur kortplatsen.



- Innan du tar ut Micro SD-minneskortet i <**Lagring**>, konfigurerar du enheten till <**Av**> och trycker på knappen [**Tillämpa**] och stänger av kameran.
- Om du stänger av kameran eller tar ut Micro SD-minneskortet som innehåller data från produkten kan datan gå förlorad eller skadas.

ANSLUTNING TILL EN ANNAN ENHET



- Produktens VIDEO-utterminal medföljer för att förenkla installationen och rekommenderas inte för övervakningsändamål.

Ethernet-anslutning

Anslut Ethernet-kabeln till det lokala nätverket eller till Internet.

Strömkälla

Använd skruvmejseln för att ansluta varje linje (+, –) för strömkabeln till överensstämmande port på kameran.

- Du kan också använda en router med PoE för att få strömtillförsel till kameran.
- Använd PoE som är kompatibelt med IEEE 802.3af-protokollen.
- Var forsiktig sa att du inte vander polerna nar du ansluter stromkabeln.
- Om du vill ansluta en extern enhet måste du först slå av den.

Specifikation för strömkabel för varje modell

Vid DC 12V ingång:

Kabeltyp (AWG)	#22	#20
Kabellängd (Max.)	18m	28m

Specifikation för nätverkskabel

Artikel	Innehåll	Anmärkning
Anslutningsanordning	RJ45	
Ethernet	10/100Base-T	10/100 Mbps
Kabel	Kategori 5e	
Max avstånd	100 m	
Stöd för PoE	IEEE 802.3af	

Jorda produkten

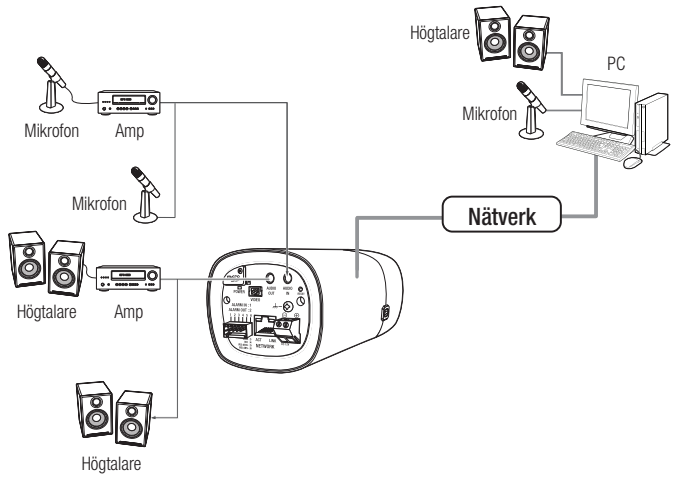
Anslut jordkabeln till jordterminalen som sitter ovanför strömingångsterminalen med en skruvmejsel.

- Jordning skyddar produkten från strömökning eller blixtnedslag.
- När du jordar ska du se till att strömmen till produkten är avstängd.

Rekommenderad jordningskabel

- Längd: Mindre än 3M
- Gauge: 18 AWG eller större
  ex) UL1007 AWG 18/16, UL1015 AWG18/16/14/12, UL2468 AWG18/16/14

Ansluta till ingående/utgående ljud

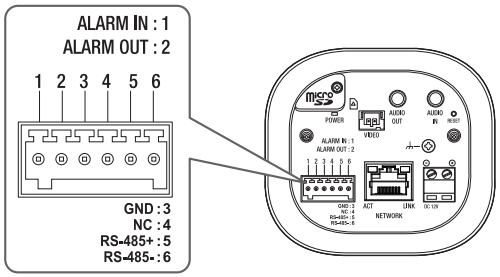


1. Anslut porten AUDIO IN på kameran med mikrofonen eller med porten LINE OUT på förstärkaren som mikrofonen är ansluten till.
2. Anslut porten AUDIO OUT på kameran med högtalaren eller med porten LINE IN på förstärkaren som högtalaren är ansluten till.
3. Kontrollera specifikationerna för ljudingång.

- **Audio Codec**
  - Ljud In : G.711 PCM (Bithastighet: 64kbps / Samplingsfrekvens: 8kHz), G.726 ADPCM (Bithastighet: 16Kbps, 24Kbps, 32Kbps, 40Kbps/Samplingsfrekvens: 8kHz)
  - Ljud Ut : G.711 PCM (Bithastighet: 64kbps / Samplingsfrekvens: 8kHz)
- **Full duplex Audio**
- **Audio in** : linje in (3,5 mm monouttag), spänning som stöds: 2,5 V DC (4 mA), ingångsimpedans: 2 k Ohm
- **Audio out** : Linje ut (3,5 mm monouttag), max uteffekt: 1 Vrms
- **Impedans för linje ut** : 600Ω

Anslutning till I/O-portboxen

Anslut Alarm I/O-signalen till överensstämmande port på portboxens baksida.



- ALARM IN : Används för att ansluta sensorn för larmingång eller den externa dag/natt-sensorn.
- ALARM OUT : Används för att ansluta utgående alarmsignal.
- GND : Används för jordning.
- RS-485+ : Kommunikationsport för RS-485-mottagare (+).
- RS-485- : Kommunikationsport för RS-485-mottagare (–).

Ansluta en extern RS-485-enhet

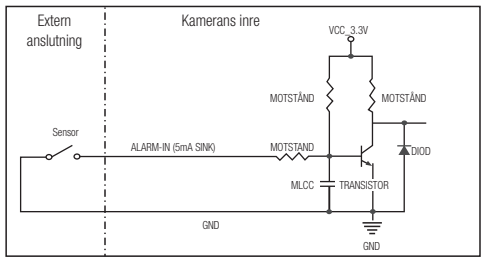
Anslut kameran till en extern enhet med portarna [**RS-485 +, -**].
Du kan styra panorerings-/lutningsåtgärder för kameran via RS-485-kommunikationer.

- GND-anslutningen rekommenderas för RS-485-kommunikationer. Om du råkar ut för ett kommunikationsfel, ansluter du GDN-stiftet efter behov för att korrigera GND-nivån mellan kamera och den externa enheten.

Så här ansluter du den externa sensorn

Anslut ena slingan på varje signallinje (2-slingor) för sensorerna till porten [**ALARM IN**] och anslut andra slingan till porten [**GND**].

Kopplingschema för Alarm-in

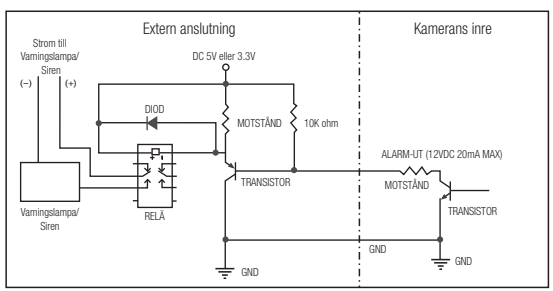


För att ansluta alarm-ut

Om enheter (t ex blinkande ljus eller siren) som överstiger specifikationerna för spänning och strömstyrka ansluts med open collector-metoden kan fel uppstå.

Se diagrammet för anslutning av alarm-ut nedan när du ansluter enheter som överstiger specifikationerna för spänning och ström.

Kopplingsschema för Alarm-ut

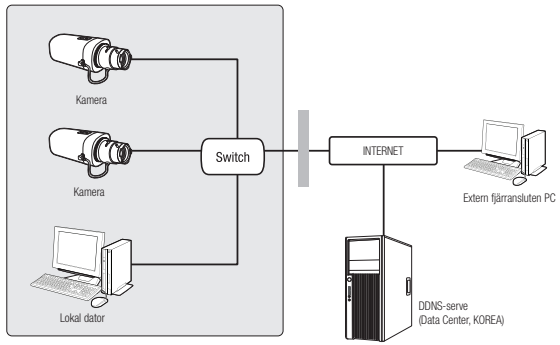


Du kan göra nätverksinställningar enligt dina nätverkskonfigurationer.

ANSLUTA KAMERAN DIREKT TILL LOKALT NÄTVERK

Ansluta till kameran från en lokal dator i nätverket

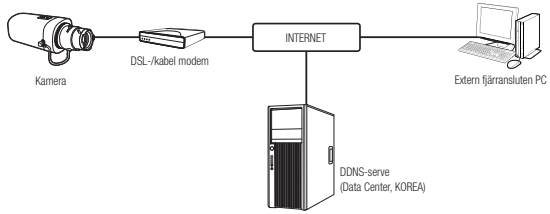
1. Starta Internet-klienten på den lokala datorn.
2. Ange IP-adressen för kameran i adressfältet för webbläsaren.



<Lokalt Nätverk>

- En fjärrdator på externt Internet utanför LAN-nätverket kan inte ansluta till kameran som är installerad i Intranätet om portvidarebefordran inte har ställts in eller om en brandvägg är inställd.
  I så fall ska du kontakta nätverksadministratören för att lösa problemet.
- Enligt fabriksstandard tilldelas IP-adressen från DHCP-servern automatiskt.
  Om det inte finns någon DHCP-server tillgänglig är IP-adressen ställd till 192.168.1.100.
  Använd Device Manager för att ändra IP-adress.
  För mer information om hur man använder Device Manager, se "**Använda Device Manager**". (sidan 14)

ANSLUTA KAMERAN DIREKT TILL ETT DHCP-BASERAT DSL/ KABELMODEM

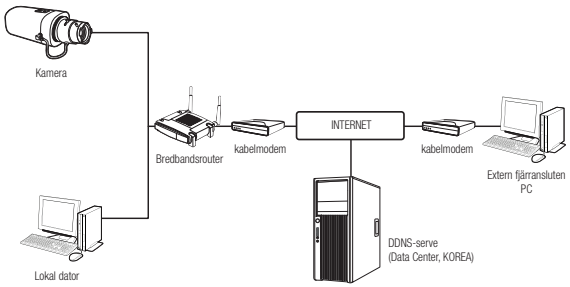


1. Anslut användar-PC:n direkt till nätverkskameran.
2. Kör Device Manager för att ändra kamerans IP-adress så att du kan använda webbläsaren i din dator för att ansluta till internet.
3. Använd Internet-klienten för att ansluta till Webbvisning.
4. Gå till sidan [**Inställningar**].
5. Gå till [**Nätverk**] – [**DDNS**] och konfigurera DDNS-inställningarna.
6. Gå till [**Basic**] – [**IP & Port**] och ställ in IP-typ på [**DHCP**].
7. Anslut kameran, som togs bort från datorn, direkt till modemet.
8. Starta om kameran.

- För information om hur du konfigurerar DDNS, se onlinehjälpen för webbvisaren.
- För information om hur du konfigurerar IP format, se onlinehjälpen för webbvisaren.

ANSLUTA KAMERAN TILL EN BREDBANDSROUTER MED PPPoE-/ KABELMODEM

Det här är för små nätverksmiljöer, såsom hem, SOHO och vanliga butiker.



Konfigurera nätverksinställningar för den lokala datorn som är ansluten till en Bredbandsrouter

Konfigurera nätverksinställningar för den lokala datorn som är ansluten till en Bredbandsrouter enligt anvisningarna nedan.

- Välj : <**Network**> → <**Properties**> → <**Local Area Connection**> → <**General**> → <**Properties**> → <**Internet Protocol (TCP/IP)**> → <**Properties**> → <**Obtain an IP address automatically**> eller <**Use the following IP address**>.
- Följ anvisningarna nedan om du väljer <**Använd följande IP-adress**> :

ex1) Om adressen (LAN IP) för Bredbandsrouter är 192.168.1.1
IP-adress : 192.168.1.100
Nätmask : 255.255.255.0
Standard-Gateway : 192.168.1.1

ex2) Om adressen (LAN IP) för Bredbandsrouter är 192.168.0.1
IP-adress : 192.168.0.100
Nätmask : 255.255.255.0
Standard-Gatewa : 192.168.0.1

ex3) Om adressen (LAN IP) för Bredbandsrouter är 192.168.xxx.1
IP-adress : 192.168.xxx.100
Nätmask : 255.255.255.0
Standard-Gateway : 192.168.xxx.1

- Se produktdokumentationen för Bredbandsrouter adress.
- Mer information om portvidarebefordring av bredbandsrouter finns i avsnittet "**Portintervallsinställning Framåt (portmappning)**". (sidan 16)

ANVÄNDA DEVICE MANAGER

- Programmet Device Manager kan laddas ned från menyn <**Technical Guides**> – <**Online Tool**> på Hanwha Techwins webbplats (http://www.hanwha-security.com).
- Du kan hitta fler instruktioner för Device Manager i menyn <**Hjälp**> på huvudsidan.

AUTOMATISK KAMERASÖKNING

Om en kamera är ansluten till samma nätverk som datorn där Device Manager är installerat, kan du hitta nätverkskameran med hjälp av sökfunktionen.

1. Klicka på <**Search (Sök)**> på Device Managers huvudsida.
2. Markera kameran i listan.
   - Kontrollera MAC-adressen på etiketten som är fäst på kameran.

LÖSENORDSINSTÄLLNING

När du öppnar produkten för första gången måste du registrera inloggningslösenordet.

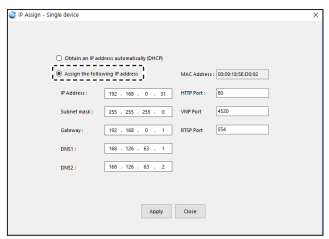
KONFIGURERA IP-ADRESS

Om du vill ändra nätverksinställningarna för kameran måste <**Status**> visa <**Login OK (Inloggning OK)**>. Klicka på <**Authentication (Autentisering)**> på huvudsidan för att logga in.

Konfigurera statisk IP

Infoga och konfigurera IP-adress och portinformation manuellt.

1. I listan klickar du på kameran som du vill ändra IP-inställningen för.
2. Klicka på <**IP Assign (Tilldela IP)**> på Device Managers huvudsida.
3. Välj <**Assign the following IP address (Tilldela följande IP-adress)**>.
   - Kamerans aktuella IP-information kommer att visas.
4. Fyll i IP- och portrelaterade kategorier.



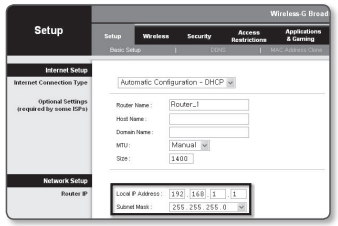
Utan användning av en Bredbandsrouter

Fråga den nätverksansvarige om inställt värde för <**IP-adress**>, <**Subnätsmask**>, <**Gateway**>.

- HTTP Port : Används för att komma åt kameran med Internetklienten, med standard på 80.
- RTSP Port : En port som kontrollerar streaming i realtid. Det ursprungliga värdet är 554.

Vid användning av en Bredbandsrouter

- IP-adress : Ange en adress som ligger inom IP-intervallet som erbjuds av Bredbandsrouter.
  ex) 192.168.1.2~254, 192.168.0.2~254,
  192.168.XXX.2~254
- Subnet Mask : <**Subnet Mask**> för Bredbandsrouter blir kamerans <**Subnet Mask**>.
- Gateway : <**Local IP Address**> för Bredbandsrouter blir <**Gateway**> för kameran.



- Inställningarna kan variera beroende på ansluten Bredbandsrouter modell.
  För vidare information, se användarhandboken för tillämplig router.
- Mer information om portvidarebefordring av bredbandsrouter finns i avsnittet "**Portintervallsinställning Framåt (portmappning)**". (sidan 16)

Om Bredbandsrouter har mer än en kamera ansluten

Konfigurera IP-relaterade inställningar och portrelaterade inställningar separerat från varandra.

ex)

Kategori		Kamera #1	Kamera #2
IP-relaterade inställningar	IP Address Subnet Mask Gateway	192.168.1.100 255.255.255.0 192.168.1.1	192.168.1.101 255.255.255.0 192.168.1.1
Portrelaterade inställningar	HTTP Port RTSP Port	8080 554	8081 555

- Om <**HTTP Port**> är inställd på något annat än 80, måste du ange <**Port**>-numret i adressfältet på Internet-klienten innan du kan komma åt kameran.
  ex) http://IP-adress: HTTP-port
  http://192.168.1.100:8080

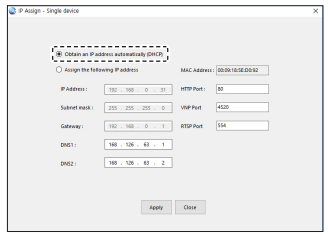
5. Klicka på knappen [**Tillämpa**].
6. Om meddelandet om genomförd åtgärd visas, klicka på [**OK**].

Konfigurera dynamisk IP

Erhålla IP-adress från DHCP

- Exempel på dynamisk IP-miljö
  - Om en Bredbandsrouter, med anslutna kameror, tilldelas en IP-adress av DHCP-servern
  - Om kameran ansluts direkt till modemet med DHCP-protokoll
  - Om IP-adresser tilldelas av den interna DHCP-servern via LAN

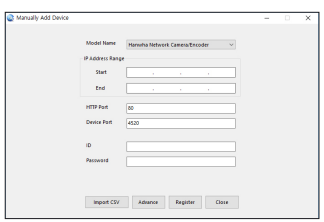
1. I listan klickar du på kameran som du vill ändra IP-inställningen för.
2. Klicka på<**IP Assign (Tilldela IP)**> på Device Managers huvudsida.
3. Välj <**Obtain an IP address automatically (DHCP) (Erhålla en IP-adress automatiskt (DHCP))**>.
4. Klicka på knappen [**Apply (Tillämpa)**].
5. Om meddelandet om genomförd åtgärd visas, klicka på [**OK**].



REGISTRERA KAMERAN MANUELLT

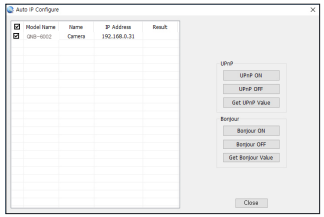
Om kameran inte kan hittas med hjälp av sökfunktionen, kan kameran registreras fjärrstyrt genom att manuellt infoga IP-information, om kameran är ansluten till ett externt nätverk.

1. Klicka på <**Add Devices (Lägg till enheter)**> – <**Manually Add Device (Lägg till enhet manuellt)**> på Device Managers huvudsida.
2. Ange intervallet för den IP-adress du söker.
3. Välj <**Model Name (modellnamn)**> för kameran som du registrerar och ange HTTP-port, VNP-port, ID och lösenord.
4. Klicka på knappen [**Register (Registrera)**].
5. Kontrollera om kameran är registrerad.
   - Kontrollera MAC-adressen på etiketten som är fäst på kameran.



AUTOMATISK KONFIGURERING AV IP

1. I listan klickar du på kameran som du vill konfigurera IP-inställningen för automatiskt.
2. Klicka på < **+** > på Device Managers huvudsida.
   - Utrustningens inställningsmeny visas.
3. Klicka på <**Auto IP Configure (Auto-IP-konfigurera)**> i menyn.
4. Klicka på knappen [**Close (Stäng)**].

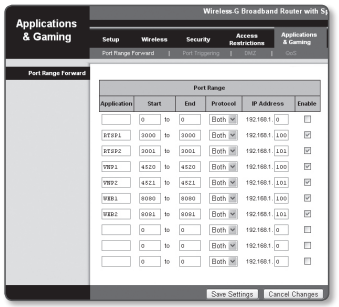


PORTINTERVALLSINSTÄLLNING FRAMÅT (PORTMAPPNING)

Om du har installerat en Bredbandsrouter med en kamera ansluten måste du ställa in portintervall för vidarebefordran av Bredbandsrouter så att en fjärrdator kan få åtkomst till kameran i den.

Manuell vidarebefordran för portintervall

1. I inställningsmenyn för Bredbandsrouter väljer du <**Applications & Gaming**> - <**Port Range Forward**>.
   För inställning av vidarebefordran för portintervall gällande en tredjeparts Bredbandsrouter, läs bruksanvisningen för Bredbandsrouter.
2. Välj <**TCP**> och <**UDP Port**> för varje ansluten kamera till Bredbandsrouter.
   Numret för varje port som ska konfigureras till IP-routern bör ställas in efter det portnummer som tilldelats i <**Inställningar**> - <**Basic**> - <**IP & Port**> på kamerans webbvisare.
3. När du är klar klickar du på [**Save Settings**].
   Inställningarna sparas.

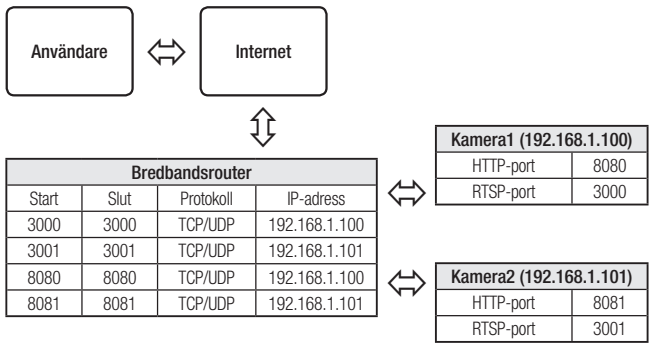


- Inställningen Portvidarebefordran är ett exempel på inställning för CISCO IP-router.
- Inställningarna kan variera beroende på ansluten Bredbandsrouter modell.
  För vidare information, se användarhandboken för tillämplig router.

Installera vidarebefordran av port för flera nätverkskameror

- Du kan ställa in en regel för portvidarebefordran på Bredbandsrouter enheten genom dess konfiguration för webbsidan.
- En användare kan ändra varje port med kamerainställningsskärmen.

När Kamera1 och Kamera2 är anslutna till en router:



Bredbandsrouter			
Start	Slut	Protokoll	IP-adress
3000	3000	TCP/UDP	192.168.1.100
3001	3001	TCP/UDP	192.168.1.101
8080	8080	TCP/UDP	192.168.1.100
8081	8081	TCP/UDP	192.168.1.101

Kamera1 (192.168.1.100)	
HTTP-port	8080
RTSP-port	3000

Kamera2 (192.168.1.101)	
HTTP-port	8081
RTSP-port	3001

▪ Portvidarebefordran kan göras utan ytterligare inställningar av router om routern stöder funktion för UPnP (Universal Plug and Play).
Efter anslutning av nätverkskameran markerar du kryssrutan i menyn <**Snabbanslutning**> i <**Wisenet DDNS**> i "**Inställningar** -> **Nätverk** -> **DDNS**".

ANSLUTA TILL KAMERAN FRÅN EN DELAD, LOKAL DATOR

1. Kör Device Manager.
   Den söker efter anslutna kameror och visar en lista över dem.
2. Dubbelklicka på en kamera du vill komma åt.
   Internetklienten startar och ansluter till kameran.

▪ Du kan även komma åt kameran genom att skriva in IP-adressen för den uppsökta kameran i adressfältet för Internet-klienten.

ANSLUTA TILL KAMERAN FRÅN EN FJÄRRDATOR VIA INTERNET

På en fjärrdator som inte finns i bredbandsrouterns nätverk är inte kluster tillåtna. Användarna kan få tillgång till kameror inom bredbandsrouterns nätverk med hjälp av kamerans DDNS-adress.

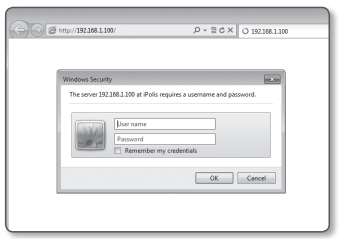
1. Innan du kan få åtkomst till en kamera i nätverket för Bredbandsrouter ska du ha ställt in portintervall för vidarebefordran för Bredbandsrouter.
2. Starta Internet-klienten från fjärrdarotn och skriv in DDNS URL-adressen för kameran, eller IP-adressen för Bredbandsrouter i adressfältet.
   ex) http://ddns.hanwha-security.com/ID

▪ För att använda Wisenet DDNS registrerar du dig på Wisenet DDNS hemsida (http://ddns.hanwha-security.com) och registrerar produkten på [**Mitt DDNS**]>[**Registrera produkt**].

ANSLUTA TILL KAMERAN

I normala ska du

1. Starta Internet-klienten.
2. Skriva in IP-adressen för kameran i adressfältet.
   ex) • IP-adress (IPv4): 192.168.1.100
   → http://192.168.1.100
   - inloggningsfönstret ska öppnas.
   • IP-adress (IPv6) : 2001:230:abcd: ffff:0000:0000:ffff:1111
   → http://[2001:230:abcd:ffff:0000:0000:ffff:1111]
   - inloggningsfönstret ska öppnas.



Om HTTP-porten är någon annan än 80

1. Starta Internet-klienten.
2. Skriva in IP-adressen och HTTP-portnumret för kameran i adressfältet.
   ex) IP-adress: 192.168.1.100:HTTP Port number(8080)
   → http://192.168.1.100:8080 - inloggningsfönstret ska öppnas.

Använda URL

1. Starta Internet-klienten.
2. Skriv in DDNS URL-adressen för kameran i adressfältet.
   ex) URL-adress: http://ddns.hanwha-security.com/ID
   - inloggningsfönstret ska öppnas.

▪ Nätverksanslutning är inaktiverad i miljöer med endast LAN.

Anslutning via UPnP

1. Ställ in klienten eller operativsystemet så att det stöder UpnP-protokollet.
2. Klicka på kameranamnet för att söka.
   Vid Windows operativsystem, klicka på kameranamnet som sökts från nätverksmenyn.
   - Inloggningsfönstret visas.

Anslutning via Bonjour

1. Ställ in klienten eller operativsystemet så att det stöder Bonjour-protokollet.
2. Klicka på kameranamnet för att söka.
   Vid Mac operativsystem, klicka på kameranamnet som sökts på Bonjourfliken i Safari.
   - Inloggningsfönstret visas.

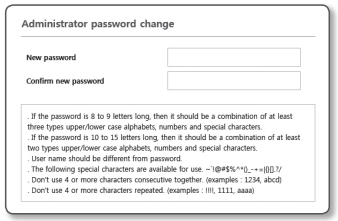
Kontrollera DDNS-adressen

Om kameran är ansluten direkt till DHCP-kabelmodem, DSL-modem eller PPPoE-modem, ändras IP-adressen för ditt nätverk varje gång du försöker ansluta till ISP-servern (Internet Service Provider).
Om detta är fallet informeras du inte om att IP-adressen har ändrats av DDNS.

Så fort du registrerar en dynamisk, IP-baserad enhet med DDNS-servern kan du enkelt kontrollera den ändrade IP-adressen när du försöker få tillgång till enheten.
För att registrera enheten till <**DDNS**>-servern, besök sidan http://ddns.hanwha-security.com och registrera enheten först och ställ sedan in webbvisningens <**Nätverk**> - <**DDNS**> till <**Wisenet DDNS**>, samt erbjuda <**Produkt-ID**> som har använts för DDNS-registringen.

LÖSENORDSINSTÄLLNING

När du öppnar produkten för första gången måste du registrera inloggningslösenordet.

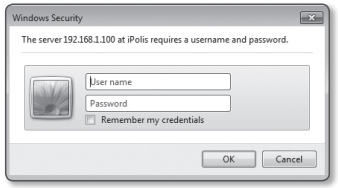


- För ett nytt lösenord med 8 till 9 tecken måste du använda minst 3 av följande alternativ: versaler/gemener, siffror och specialtecken. För ett lösenord med 10 till 15 siffror måste du använda minst 2 typer av ovan nämnda alternativ.
  - Specialtecken som tillåts. : ~`!@#$%^*()_-+=|{}[].?/
- För ökad säkerhet rekommenderar vi att du inte upprepa samma tecken eller tecken i följd på tangentbordet för dina lösenord.
- Om du tappar bort lösenordet kan du trycka på knappen [**RESET**] för att återställa produkten, så du inte förlorar lösenordet genom att använda en memo pad eller memorera det.

INLOGGNING

När du har tillgång till kameran visas inloggningsfönstret.
Ange användar-ID och lösenord för att öppna kameran.

1. Ange "**admin**" i inmatningsrutan <**User name**>.
   Administratörs-ID, "**admin**", är fast och kan inte ändras.
2. Ange lösenordet i inmatningsfältet <**Password**>.
3. Klicka på [**OK**].
   Om du har loggat in utan problem kommer du till skärmen Live Viewer.



- När du öppnar kamerans web viewer ska du vara noggrann med säkerheten och kontrollera om bilddata krypteras.

- Om du markerar alternativet "**Remember my credentials**" när inmatningen har gjorts loggas du automatiskt in utan att tillfrågas om att ange inloggningsinformationen från nästa gång.
- Du får bästa videokvaliteten om skärmstorleken är 100 %. Om du minskar förhållandet kan det kapa bilden i kanterna.

KAMERANS WEBBVISNINGSINSTÄLLNINGAR

1. Klicka på ikonen [**Konfiguration ( )**].
2. Inställningsfönstret visas.
3. Du kan konfigurera inställningarna för kamerans grundinformationsvideo, ljud, nätverk, händelse, analys och system över nätverket.
4. Klicka på <**Hjälp ( )**> för att visa detaljerade beskrivningar av varje funktion.

FELSÖKNING

PROBLEM	LÖSNING
När en användare av Windows 10 öppnar webbvisningsverktyget genom Chrome eller Firefox ändras volymen på mikrofonen med jämna mellanrum.	• Detta är det som händer när mikrofonens drivrutin har ställts in på Realtek driver. Installera högupplöst ljudenhet (Windows standarddrivrutin) eller drivrutinen för tredje part som mikrofondrivrutin.
Ingen video visas i den kostnadsfria plugin-webbvisaren på Safari via HTTPS.	• Klicka på "Visa autentiseringscertifikat" i popup-autentiseringsfönstret som visas när du ansluter till HTTPS för första gången, och markera kryssrutan "Lita alltid på anslutningar till den tilldelade webbvisarens IP-adress". • Om webbvisaren inte visar video när du har klickat på "Nästa" i meddelandet nedan, trycker du på kommandotangenten + Q för att avsluta Safari. Anslut igen och genomför samma procedur som ovan.
Jag kan inte komma åt kameran från en webbläsare.	• Kontrollera för att säkerställa att kamerans nätverksinställningar är korrekta. • Kontrollera för att säkerställa att alla nätverkskablar har anslutits korrekt. • Om den är ansluten och du använder DHCP ska du kontrollera att kameran kan förvärva dynamiska IP-adresser utan problem. • Om kameran har anslutits till en Bredbandsrouter ska du se till att portvidarebefordran är korrekt konfigurerat.
Viewern har kopplats ur under övervakningen.	• Anslutna användare blir frånkopplade vid en ändring i kamera- eller nätverkskonfigurationen. • Kontrollera alla nätverksanslutningar.
Den nätverksanslutna kameran hittas inte i programmet Device Manager.	• Slå av inställningarna för brandväggen på datorn och sök kameran igen.
Bilderna överlappas.	• Kontrollera om två eller fler kameror är inställda på enkel multicast-adress istället för olika adresser. Om en enkel adress används för flera kameror kan bilderna överlappas.
Ingen bild visas.	• Om sändningsmetoden är inställd på multicast ska du kontrollera om det finns en router som stöder multicast i nätverket som kameran är ansluten till.

PROBLEM	LÖSNING
Röst spelas inte in även om ljudingångsinställningarna konfigureras.	• Du måste markera kryssrutan <Ljud in> i <Basic> - <Videoprofil>.
<Rörelsedetektering> för <Analys> är inställd på <Aktivera>, men inga meddelanden via e-post når mig, även om en analyshändelse har uppstått.	• Verifiera inställningarna i följande sekvens: A. Kontrollera inställningarna för <Datum och tid>. B. <Rörelsedetektering> ska ställas in på <Aktivera>. C. Kontrollera om alternativet <e-post> för <Händelseinställningar> har markerats för användning.
Ingen signal hittades i porten för alarmutgång även när en intelligent videoanalys genererades.	• Kontrollera inställningar för utgående alarmporten.
Kan inte lagra på Micro SD-minneskort.	• Kontrollera om det finns fel på minneskortet.
Micro SD-minneskortet är isatt men kameran fungerar inte som den ska.	• Kontrollera om minneskoret har satts i på rätt håll. Användning av minneskorts som har formaterats av andra enheter garanteras inte med den här kameran. • Formatera minneskortet igen i <Inställningar> → <Händelse> → <Lagring>.
Kan inte spela in i NAS.	• Bekräfta att informationen som är registrerad i NAS är korrekt.
Den rapporterar att inställning av NAS har misslyckats.	• Bekräfta att NAS-enhetens IP-adress är giltig. • Bekräfta att NAS-enhetens ID och lösenord är giltiga. • Bekräfta att du får åtkomst till mappen som har tilldelats som huvudmapp med hjälp av NAS-enhetens ID. • Bekräfta att alternativen NAS SMB/CIFS inte är ikryssade. • Bekräfta att NAS-enhetens IP-adress och kamerans IP-adress har samma format. T.ex.) Initialvärdet för NAS-enhetens och kamerans subnätmask är 255.255.255.0. Om IP-adressen är 192.168.20.32 ska NAS-enhetens IP-adress vara i intervallet 192.168.20.1~192.168.20.255. • Kontrollera om du har försökt få åtkomst som en annan användare utan att formatera huvudmappen som sparad eller använd. • Bekräfta att du använder rekommenderad NAS-utrustning.

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Component Name	License	URL
Base Kernel	GPL 2.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtd-utils
mii-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
zeroconf	GPL 2.0	

LGPL SW

Component Name	License	URL
gLibc	LGPL 2.0	
Inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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established by T-Engine Forum
on January 23, 2004
revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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1. This License Agreement sets forth copyrights and the terms and conditions of use applicable to the source code of T-Kernel distributed by T-Engine Forum and any derivative work created therefrom.

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1. "T-Kernel" means a real-time operating system controlled and distributed by T-Engine Forum on behalf of the copyright holder thereof.

2. "Source Code" means a source program, including related comments and documentations, for the T-Kernel and the Ported Source Code defined in Article 2.8 which is registered with T-Engine Forum.

3. "Hardware-dependent Part" means the part of the Source Code which depends on hardware and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.

4. "Compiler-dependent Part" means the part of the Source Code which depends on compiler and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.

5. "Header File" means the part of the Source Code which contains definitions necessary to develop application programs.

6. "T-Engine Hardware" means the hardware which is manufactured in accordance with the T-Engine Hardware specifications or the µT-Engine Hardware specifications issued by T-Engine Forum, and registered with T-Engine Forum.

7. "Similar Hardware to T-Engine Hardware" means any hardware (including software which emulates hardware) other than that defined in Article 2.6 above, on which the T-Kernel can be operated.

8. "Ported Source Code" means a source program produced from the Source Code by modifying only its Hardwaredependent Part and/or Compiler-dependent Part to enable it to be operated on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware. The Ported Source Code which is registered with T-Engine Forum shall be included in the Source Code.

9. "Modified Source Code" means a source program modified from the Source Code for the purpose of improving its performance, increasing or decreasing its function, and the like. The Ported Source Code shall not be included in the Modified Source Code.

10. "Binary Code" means an executable code form which is created by compiling programs, which include all or part of the Source Code or the Modified Source Code.

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13. "End User" means a consumer who uses the Embedded Product.

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16. "Patch for Modification" means a difference, program, system, or the like in order to create the Modified Source Code from the Source Code or the Binary Code thereof.

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2. to transmit a work to the general public through the Internet communication, broadcasting, and the like automatically in response to a request from the public; and

3. to distribute a copy of a work to the general public or a large number of specific persons.

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2. to run the Source Code provided by T-Engine Forum hereunder for its own research, development and the like.

3. to run the Source Code modified in accordance with the provision of Article 4.3 (1) above for its own research, development and the like.

4. to distribute the Binary Code created from the Source Code provided by T-Engine Forum hereunder or from the Source Code modified in accordance with the provision of Article 4.3 (1) above.

4. In accordance with the license granted under Article 4.1 above, the System Developer may perform the following acts:

1. to perform any and all acts set forth in the Article 4.3 above.

2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.

5. The Source Code User and the System Developer shall be obligated to give a notice that the Source Code is used, in such a way as separately specified by T-Engine Forum, when they use the Source Code or the Binary Code, or make the Binary Code available for the End User on the Embedded Product.

Article 5. Distribution of Modified Source Code

1. Any of A- members of T-Engine Forum may become the Distributor of Modification by obtaining the approval of T-Engine Forum through the registration procedure as prescribed by the Forum provided that only the department of the A- member which has taken the registration procedure may distribute the Modified Source Code in such a way as provided for in this Article as long as it holds the Amembership.

2. The Distributor of Modification may create the Modified Source Code based on the Source Code provided by T-Engine Forum and the Patch for Modification to be applied to create such Modified Source Code from the Source Code.

3. The Distributor of Modification shall, prior to the distribution, inform T-Engine Forum of and register a name and description of the Modified Source Code in such a way as specified by T-Engine Forum.

4. The Distributor of Modification shall determine the name of the Modified Source Code subject to the rules separately established by T-Engine Forum and publish an appropriate notice as required by the rules on the Patch for Modification and the Modified Source Code.

5. The Distributor of Modification may distribute the Modified Source Code to a third party, whether with or without payment, provided that the Distributor of Modification shall take the necessary measures to prohibit the third party from making the re-Distribution of the Modified Source Code.

6. Developer with the Patch for Modification. Provided, however, that the Distributor of Modification shall be obligated to confirm that the System Developer is the Source Code User duly licensed under Article 4.1.

7. The Distributor of Modification may perform the Vicarious Execution of Patch Processing for the System Developer.

8. The System Developer shall not distribute the Modified Source Code in further modified form to any third party as a stand-alone software product.

9. The System Developer may, under the same obligation as imposed in Article 4.5, make the Embedded Product available for the End User through use of the Patch for Modification distributed by the Distributor of Modification or the Derivative Works obtained through the Vicarious Execution of Patch Processing.

Article 6. Distribution and Registration of the Ported Source Code

1. The Source Code User and the System Developer may, whether with or without charge, distribute to any third party only the following parts of the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware:

1. The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.

2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.

2. Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

3. Any member of T-Engine Forum who requests the distribution mentioned in the preceding paragraph shall accede to the following conditions:

1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

2. The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.

3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.

4. In the event that T-Engine Forum accepts the request mentioned in Article 6.2, T-Engine Forum shall register and distribute the Ported Source Code as the Source Code for T-Kernel. Provided, however, that the Ported Source Code may be treated in the same way as the Modified Source Code until the time of registration hereunder.

5. The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

Article 7. Use for Other Purpose

1. Any use of the Source Code, the Modified Source Code or the Ported Source Code other than those stipulated in Articles 4, 5 and 6 shall be subject to the prior approval of T-Engine Forum.

Article 8. Limited Warranty

1. T-Engine Forum and the copyright holder of the Source Code warrant that the Source Code does not infringe third party's copyrights. Provided, however, that T-Engine Forum and the copyright holder of the Source Code make no warranty as to the Hardware-dependent Part and/or Compiler- dependent Part set forth in Article 6.2 in the Ported Source Code by any third party.

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3. Any legal dispute which may arise in relation to any breach of this License Agreement shall be subject to the exclusive jurisdiction of the Tokyo District Court.

Article 11. Governing Law and Language

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Iperf performance test

Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

Kevin Gibbs

John Estabrook

National Laboratory for Applied Network Research

National Center for Supercomputing Applications

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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Korrekt avfallshantering av produkten (elektriska och elektroniska produkter)

Denna markering på produkten, tillbehören och i manualen anger att produkten och de elektroniska tillbehören (t.ex. laddare, headset, USB kabel) inte bör sorteras tillsammans med annat hushållsavfall när de kasseras. Till förebyggande av skada på miljö och hälsa bör dessa föremål hanteras separat för ändamålsenlig återvinning av beståndsdelarna.

Hushållsanvändare bör kontakta den återförsäljare som sålt produkten eller sin kommun för vidare information om var och hur produkten och tillbehören kan återvinnas på ett miljösäkert sätt.

Företagsanvändare bör kontakta leverantören samt verifi era angivna villkor i köpekontraktet. Produkten och de elektroniska tillbehören bör inte hanteras tillsammans med annat kommersiellt avfall.

Korrekt avfallshantering av den här produktens batterier

(Gäller i EU och andra europeiska länder med separata insamlingssystem för batterier.)

Märkningen på batteriet, manualen eller förpackningen visar att batterierna i den här produkten inte får slängas i hushållssoporna vid livsslut. Det kan finnas en märkning med de kemiska symbolerna Hg, Cd eller Pb vilket visar att batteriet innehåller kvicksilver, kadmium eller bly över referensnivåerna i EU-direktivet 2006/66. Om batterierna inte avfallshanteras korrekt kan dessa ämnen orsaka skador på människors hälsa eller på miljön.
För att skydda våra naturresurser och främja återvinning ska batterierna separeras från andra typer av avfall och återvinnas via det lokala återvinningssystemet.


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