WISENET

NÄTVERKSKAMERA

Bruksanvisning

PNM-9030V

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. Den här produkten ska märkas som en listad strömförsörjningsenhet “Klass 2” eller “LPS” med effekten 12 Vdc, 1.57 Aeller PoE, 0.5 A.
16. 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.
17. 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.
18. 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.
19. 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.
20. Installation eller användning av produkten i vatten kan orsaka allvarlig skada.
21. Skärmförvrängning kan ske utanför objektsavstånd.
22. Vid åtkomst av flera kanaler (CH 1–5) kan 1 eller 2 fps försvinna från inställningen 15 fps.
23. Vid kodning kan en fps-varians i realtid på ±1 fps inträffa.

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.

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.

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.

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.

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REKOMENDERADE DATORSPECIFIKATIONER

- Processor : Intel(R) Core(TM) i7 3.4 GHz och senare
- Operativsystem som stöds : MS Windows, Mac OS X
- Webbläsare som stöds : Google Chrome, MS Edge, Mozilla Firefox(endast Windows 64 bitar), Apple Safari (Endast stöd i Mac OS X)

  Se bilagan för detaljerad information om verifierat operativsystem och webbläsare.
  Vissa funktioner kan vara begränsade även i webbläsare som stöds.

SPECIFIKATIONER FÖR REKOMMENDERADE MICRO SD/SDHC/SDXC MINNESKORT

- Rekommenderad kapacitet : 16GB till 256GB (MLC-typ)
- Följande typer av minneskort från följande tillverkare rekommenderas för den här kameran.
  - Tillverkare : SanDisk, Transcend
  - Produktfamilj : Hög tålighet

REKOMMENDERADE SPECIFIKATIONER FÖR NAS

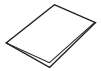
- Rekommenderad kapacitet : 200 GB eller mer rekommenderas.
- Samtidig åtkomst : En NAS-enhet kan acceptera anslutning av maximalt sexton kameror.
- För den här kameran rekommenderas användning av en NAS-enhet med följande tillverkarspecifikationer.

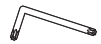
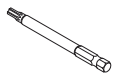
Rekommenderade produkter	Tillgängliga storlekar
QNAP/SYNOLOGY	Maximalt 16 kameror kan anslutas samtidigt.

▪ Om du använder NAS-utrustningen för andra ändamål än videosparning kan antalet kameror som kan anslutas minskas.

VAD INGAR

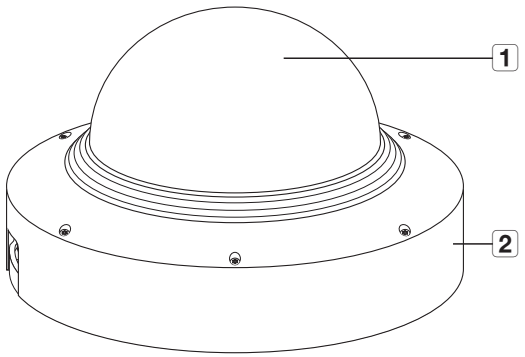
Kontrollera om kameran och tillbehören är inkluderade i produktförpackningen.
(Tillbehören kan variera med land.)

Utseende	Artikelnamn	Kvantitet	Beskrivning
	Kamera	1	
	Instruktionsbok, CD med installationsprogram	1	
	Snabbguide (tillval)	1	
	Garantikort (tillval)	1	
	Strömterminalblock	1	Anslutit strömkontakten
	Mall	1	Produktinstallationsguide
	Strömkabel	1	Används för att ansluta till strömporten
	Ljud-/larmkabel	1	Används för att ansluta till ljud- och larmporten
	Kabelnav	1	Används för att ansluta LAN-kabeln med en diameter på Ø7~8,5.
		1	Används för att ansluta LAN-kabeln med en diameter på Ø5~6,5.

Utseende	Artikelnamn	Kvantitet	Beskrivning
	Sexkantsnyckel	1	Används för att ta bort och byta den kupolformade kåpan
	Sjalvgangande skruv	4	Används för installation på väggen eller i taket
	Plastförankring	4	För åtdragning av en skruv som sitter iskruvad i ett hål (förstärkt åtdragningsmoment)
	Maskinskruvar	4	Används för montering av skyddskåpan vid installation av produkten på rör, väggmontering etc. eller vid blockering av hål.
	Cap Installer	1	Används för att ansluta RJ45-kabeln.
	Korttyp med fuktabsorbering	1	Inkopplad när installerad.
	Borr	1	Används för demontering av luckan, montering och kamerainstallation.

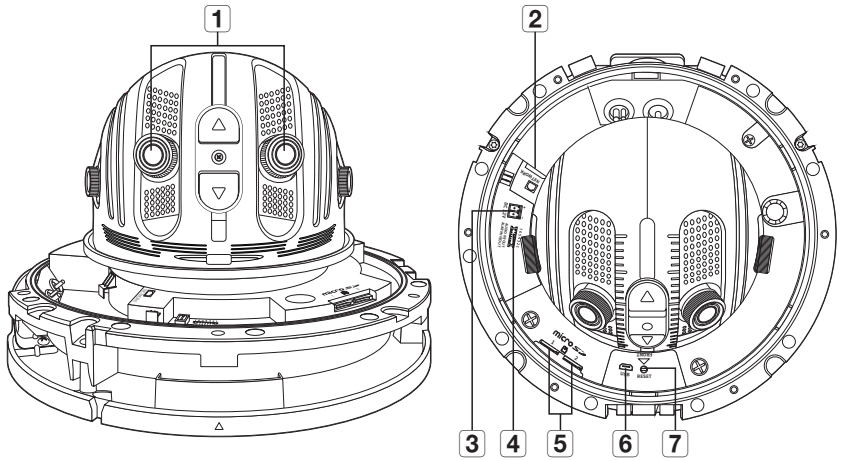
ÖVERGRIPANDE ÖVERSIKT

Utseende



Post	Beskrivning
1 **Kupolskydd**	Höljeskydd som används för att skydda objektivet och huvudenheten.
2 **Kamerahölje**	Kåpa som täcker kamerahuset.

Komponenter



Post	Beskrivning
1 **Objektiv**	4 kameralinser skapar en panoramabild.
2 **Nätverksport**	En terminal som ansluter till PoE+ eller LAN genom RJ-45-kabeln.
3 **Strömport**	Port för strömterminalblock.
4 **Ljud- och larmkabelport**	Koppla in ljud- och larmkabeln i den här porten för att ansluta till extern larmenhet/ mikrofon/högtalare.
5 **Micro SD-minneskortsplats**	Fack för Micro SD-minneskort.
6 **MICRO USB-port**	Port för anslutning av WiFi-dongle. Du kan kontrollera installationsvideon genom applikationerna som installerats i din smartphone. Se "**Anslut till WiFi-dongle**" på sidan 16. ▪ WiFi-dongle och OTG-adapter säljs separat.
7 **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 IP-installeringsprogrammet för att ändra de grundläggande nätverksinställningarna så som IP-adress, Nätmask, Gateway, etc., innan du kan ansluta till nätverket.

INSTALLATION

- Den här kameran är vattentät och uppfyller IP66-specifikationerna, men uttaget anslutet till den externa kabeln gör det inte. Vi rekommenderar att du installerar den här produkten under kanten på takskägget för att förhindra att kabeln utsätts för väder och vind.

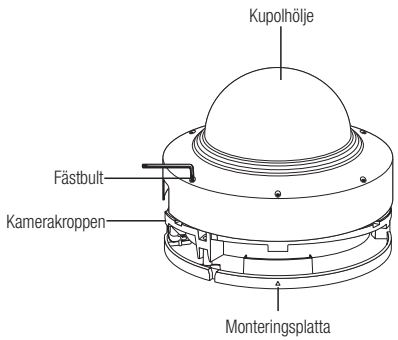
Föreskrifter före installation

Se till att läsa följande anvisningar innan du installerar kameran:

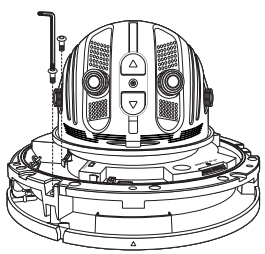
- Välj en plats som klarar minst fem gånger kamerans vikt.
- Instuckna eller avskalade kablar kan orsaka skada på produkten eller brandrisk.
- Av säkerhetsskäl ska du hålla alla borta från installationsplatsen.
  Plocka även för säkerhets skull bort personliga tillhörigheter från platsen.
- Om produkten installeras med överdriven kraft kan det orsaka skada på kameran på grund av felfunktion.
  Tvångsmontering med icke kompatibla verktyg kan skada produkten.

Demontera

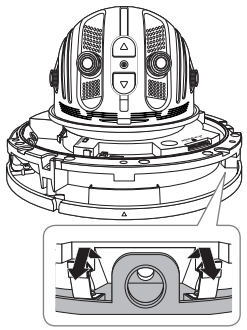
1. Ta bort kupolluckan genom att lossa fästbulten på den. Detta kan göras genom att skruva moturs med medföljande insexnyckel.



2. Lossa fästskruvarna på kamerahuset.

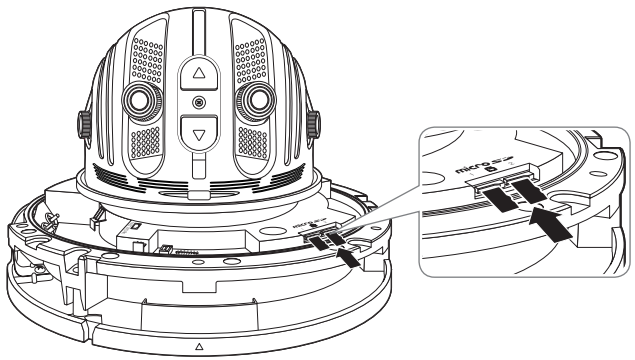


3. Ta bort kamerahuset och monteringsplattan genom att dra plattans fjäder, så som visas på bilden.



Mata in ett Micro SD-minneskort

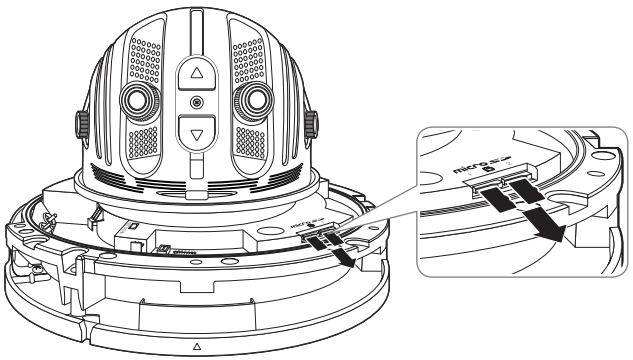
1. Ta bort kupolskyddet från kameran.
2. Mata in ett Micro SD-kort i pilens riktning så som visas på bilden.



- Koppla från strömkabeln från kameran innan du matar in Micro SD-minneskortet.
- Tvinga inte in den i motsatt riktning. Det kan skada ditt Micro SD-minneskort och din produkt.
- När det regnar eller om luftfuktigheten är hög rekommenderar vi inte att du matar in eller ut Micro SD-kortet.
- Demontering av produktkåpan ska slutföras inom 5 minuter, annars finns det risk för invändig kondens.
- Vid installation/borttagning av Micro SD-kortet ska du se till att produkthuvudstycket placeras på jämnt underlag före arbete på det för att förhindra eventuella olyckor på grund av förlust av delar eller att delar tappas.

Mata ut ett Micro SD-minneskort

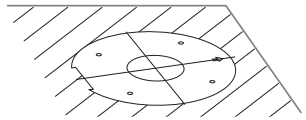
Tryck försiktigt nedåt på minneskortet så som visas i diagrammet för att mata ut det ur kortplatsen.



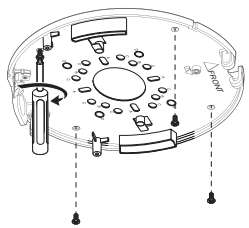
- Du bör spara ett SD-kort för varje kanal.
- Observera atat om du trycker på Micro SD-minneskortet när det matas ut kan det poppa ut.
- Innan du tar ut Micro SD-minneskortet i <**Lagring**>, konfigurerar du enheten till <**Av**> och trycker på knappen [**Tillämpa**] och stänger av kameran.
- Om du stänger av kameran eller tar ut Micro SD-minneskortet som innehåller data från produkten kan datan gå förlorad eller skadas.

Installation i taket eller på väggen

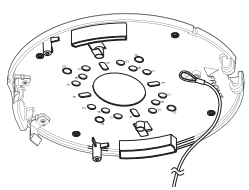
1. Använd den medföljande mallen för att borra hål för installation (diameter 6 mm och minsta djup på 45 mm) och för in de medföljande plastförankringarna i änden.



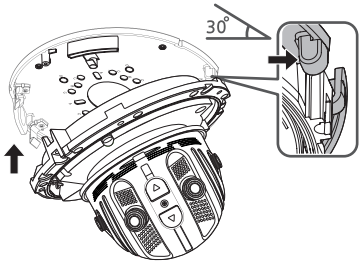
2. Sätt hålen på monteringplattan över hålen med platsplugg i och skruva fast med hjälp av de gängpressade skruvarna.



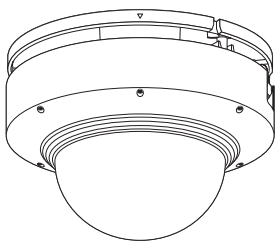
3. Anslut säkerhetskabeln.



4. Montera kameran på monteringsplattan.
   - Montera den så att den passar gångjärnen som bilden visar.
5. Anslut terminalen i kameran med passande kabel.
6. Tryck in spännstiftet.
7. Justera linseni önskad riktning genom att följa instruktionerna i "**Justera monteringsriktningen för kameran**". (Sidan 15)
   - Om du lutar linsen behöver du justera linsen, eftersom det kan blockera skärmen.



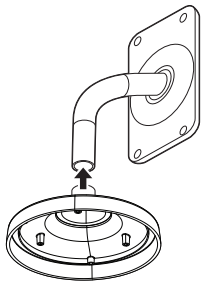
8. Montera kupolluckan.
   - Rikta in pilarna när du monterar kupolluckan.
   - För att säkerställa att det inte uppstår några problem med vattentätheten ska du dra åt fästbultarna ordentlige med en insexnyckel eller skruvdragare.
   - Ta bort skyddsplasten på insidan av kupollocket.



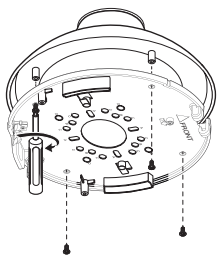
Montera till den ej medföljande adaptern

Välj och köp ett av de följande, nödvändiga alternativen (medföljer ej) som passar installationsplatsen eller för din bekvämlighet.

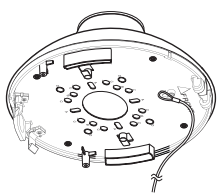
1. Installera det hängande fästet på väggfästeadaptern.
   - Hängande fästen och väggfästeadaptrar sälj separat.



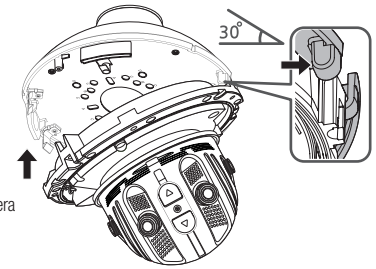
2. Anslut monteringsplattan och hängmonteringen.



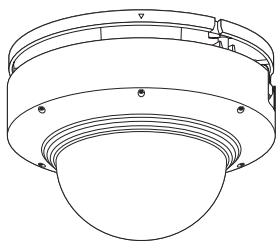
3. Anslut säkerhetskabeln.



4. Montera kameran på monteringsplattan.
   - Montera den så att den passar gångjärnen som bilden visar.
5. Anslut terminalen i kameran med passande kabel.
6. Tryck in spännstiftet.
7. Justera linseni önskad riktning genom att följa instruktionerna i "**Justera monteringsriktningen för kameran**". (Sidan 15)
   - Om du lutar linsen behöver du justera linsen, eftersom det kan blockera skärmen.



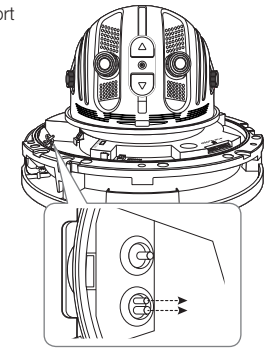
8. Montera kupolluckan.
   - Rikta in pilarna när du monterar kupolluckan.
   - För att säkerställa att det inte uppstår några problem med vattentätheten ska du dra åt fästbultarna ordentlige med en insexnyckel eller skruvdragare.
   - Ta bort skyddsplasten på insidan av kupollocket.



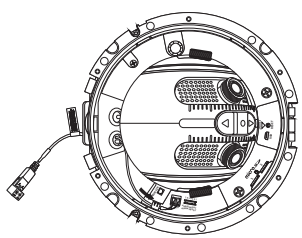
Metod 1. Ansluta vattentät strömkabel och LAN-kabel

1. Ta bort kupolhöljet och lådan.
2. Dra ut den långa utskjutande delen av gummipluggen i botten och ta bort den enligt anvisningarna i figuren.

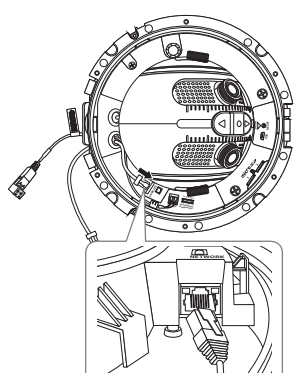
- Använd ett lämpligt kabelnav för att ansluta LAN-kabeln.
  - Grundkamera : Använd kabeln med en diameter på Ø5~6.5.
  - Komponenter som erbjuds: Använd kabeln med en diameter på Ø7~8.5.



3. För in strömkabeln i det lilla hålet som skapats genom att den utskjutande delen av gummipluggen togs bort i steg 2 ovan, och lägg kabeln längs med den långa skåran.
4. Anslut strömkabeln till strömterminalblocket.

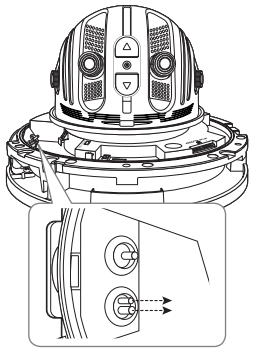


5. För in LAN-kabeln i det stora hålet som skapats genom att den utskjutande delen av gummipluggen togs bort i steg 2 ovan.
6. Ta bort höljet med en kabelskalare och lägg ledarna rätt.
7. Anslut LAN-kabeln till en LAN-kontakt och för in den i LAN-verktyget (the LAN tool).
8. Anslut den färdiga kabeln till Ethernetporten.

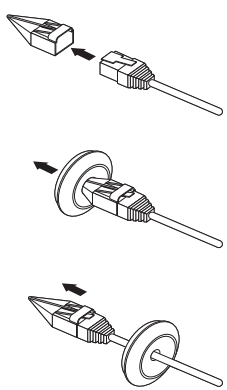


Metod 2. Ansluta vattentät strömkabel och LAN-kabel

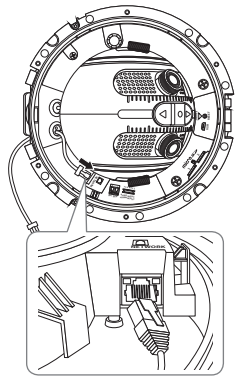
1. Ta bort kupolhöljet och lådan.
2. Dra ut den långa utskjutande delen av gummipluggen i botten och ta bort den enligt anvisningarna i figuren.
3. Dra ut gummiskyddet över hålet för att ta bort det.



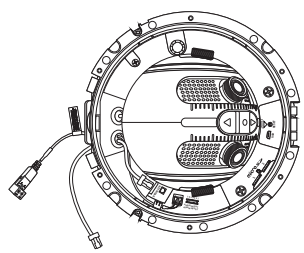
4. Använd lockmonteringen för att göra det möjligt för RJ45-kabeln att passera genom.



5. För in gummistoppet igen och anslut LAN-kabeln i Ethernet-terminalen.

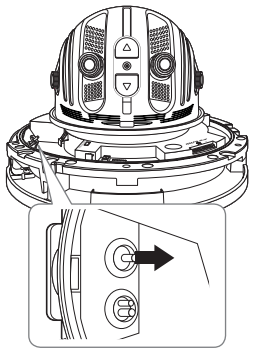


6. För in strömkabeln i det lilla hålet som skapats genom att den utskjutande delen av gummipluggen togs bort i steg 2 ovan, och lägg kabeln längs med den långa skåran.
7. Anslut strömkabeln till strömterminalblocket.

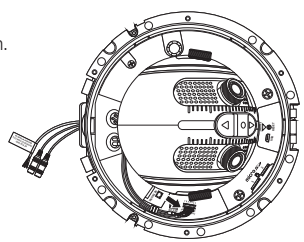


Ansluta ljud-/larmkabel

1. Ta bort kupolhöljet och lådan.
2. Dra ut gummipluggen i bottnen enligt anvisningarna i figuren.



3. För in ljud-/larmkabeln i hålet som tillverkats genom att ta bort gummipluggen i steg 2 och anslut kabeln med PCB-larmterminalen.
4. Lägg kabeln rätt så att den inte skadas eller blir klämd när du installerar kameran.
5. Sätt fast gummipluggen i ljud-/larmkabeln i hålet.
6. Ställ in objektivet i önskad riktning enligt avsnittet "**Justera monteringsriktningen för kameran**". (sidan 15)
7. Fäst kupolhöljet.



Installera tillbehörsmonteringsadapter

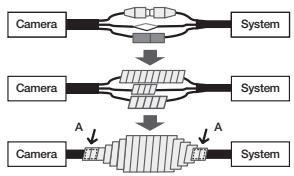
Välj och köp ett av de följande, nödvändiga alternativen (medföljer ej) som passar installationsplatsen eller för din bekvämlighet.

1. Ta bort kupolhöljet från lådan enligt anvisningarna i sektionen "**Demontera**". (sidan 9)
2. Fixera kamerans kåpa i tllbehörsmonteringsadaptern med maskinskruvarna som medföljer kameran.
3. Anslut och ordna nödvändiga kablar så att de inte skadas eller vrids medan kameran installeras.
4. Installera kamerakroppen i omvänd ordning av "**Demontera**".
5. Ställ in objektivet i önskad riktning enligt avsnittet "**Justera monteringsriktningen för kameran**". (sidan 15)
6. Stäng kupolhöljet.
   - För att säkerställa att det inte uppstår några problem med vattentätheten ska du dra åt fästbultarna ordentlige med en insexnyckel eller skruvdragare.

Utomhusinstallation

När du installerar den utanför byggnaden, gör den vattentät med vattentät butylgummitejp (finns att köpa i handeln) så att vatten inte läcker från hålet där kabeln är ansluten till utsidan.

1. Anslut kablarna för ström, I/O och LAN.
2. Vira vattentät (butylgummi-) tejp runt den svarta kabelmanteln (Område A) och kabelanslutningsområdet så att mer än hälften av tejpen överlappar lagret under.

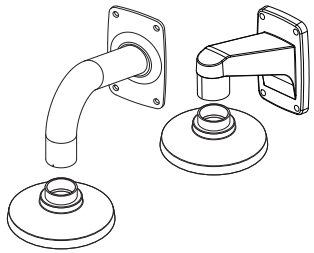


- Om kabelmanteln inte är riktigt vattentät kan det uppstå direkt läckage. Se till att skydda kabeln med ett tjockt lager av tejp.
- Vattentät butyltejp är tillverkad av butylgummi som kan sträckas ut till dubbla längden.

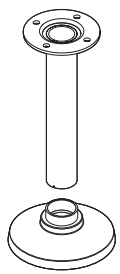
Tillbehör för installation

För enklare installation kan du köpa lämpliga tillbehör som finns tillgängliga.

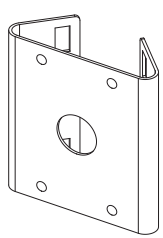
1. ADAPTER FÖR VÄGGMONTERING (SBP-300WM eller SBP-300WM1)/HÄNGANDE MONTERING (SBP-276HM)
   Det är en monteringsadapter som används för installation av kupolkameran på väggen.



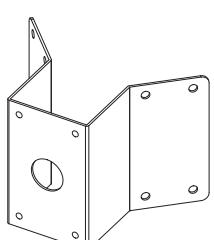
2. ADAPTER FÖR TAKMONTERING (SBP-300CM) / HÄNGANDE MONTERING (SBP-276HM)
   Det är en monteringsadapter som används för installation av kupolkameran i ett betongtak.



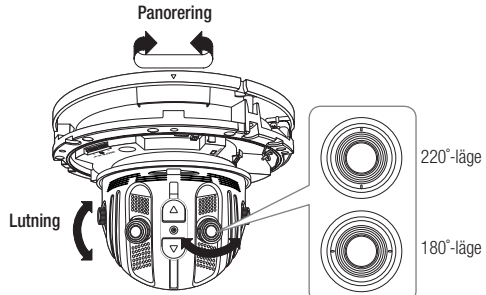
3. ADAPTER FÖR PÅLMONTERING (SBP-300PM)
   Det är en monteringsadapter som används för installation av en väggmonteringsadapter (SBP-300WM eller SBP-300WM1) på en pelare med en diameter på 80 mm eller mer.



4. ADAPTER FÖR HÖRNMONTERING (SBP-300KM)
   Det är en monteringsadapter som används för installation av en väggmonteringsadapter (SBP-300WM eller SBP-300WM1) i hörnet av en vägg.



Justera monteringsriktningen för kameran



Växla mellan 180˚- och 220˚-läge

▪ Justera övervakningsriktning

Du kan endast ställa in kamerariktningen när kameran är fixerad till taket.
Vid den här tidpunkten roterar du huvudkroppen på kameran i vänster och höger riktning, PAN, och justerar vinkeln på kameran, TILT.

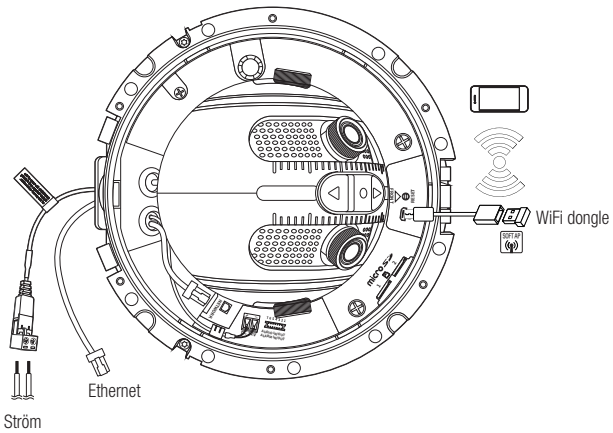
- Det effektiva panoreringsintervallet är totalt 355 grader.
- Det effektiva lutningsintervallet är totalt 60 grader.

▪ Bilden kan eventuellt täckas över av kameralådan beroende på vinkeln.

▪ Justeringsmetoder

1. Efter att du har installerat kameran i den riktning som ska övervakas, kan du justera panoreringsvinkeln.
2. Ställ in lutningsvinkeln så att kameran tittar mot övervakningsobjektet.
3. Vrid linsen för att växla mellan 180˚- och 220˚-läge.

ANSLUTNING TILL EN ANNAN ENHET



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

Ethernet-anslutning

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

Koppla in WiFi

Kamerainställningar

1. Anslut OTG-adaptern (5 stift) och WiFi-dongle till micro USB-terminalen.

Smartphoneinställningar

1. Installera Wisenet Installation-applikationen.
2. Välj kamera SSID efter att du slagit på WiFi.
3. Kör Wisenet Installation-applikationen.
4. När du loggar in på kameran ansluts videon.
   - Videon spelas upp utan inloggning under den initiala anslutningen.
5. Du kan justera visningsvinkeln när du tittar på video genom din smartphone.

Rekommenderad dongle-tillverkare

Tillverkare	Modell
NETIS	WF2123 n300
EDIMAX	EW-7811Un
IP Time	N100mini
TP-LINK	TL-WN823N V1
ASUS	USB-N13
NETGEAR	WNA3100M

Strömkälla

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

- Se si applicano contemporaneamente un'alimentazione PoE+ e 12 V CC, il prodotto la riceve da 12 V CC.
  - Du kan också använda en router med PoE+ för att få strömtillförsel till kameran.
  - Använd PoE+ som är kompatibelt med IEEE 802.3at-protokollen.
  - Vi rekommenderar användning av strömförsörjning från PoE+ och DC 12V.
- 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.

Strömkabelspecifikation

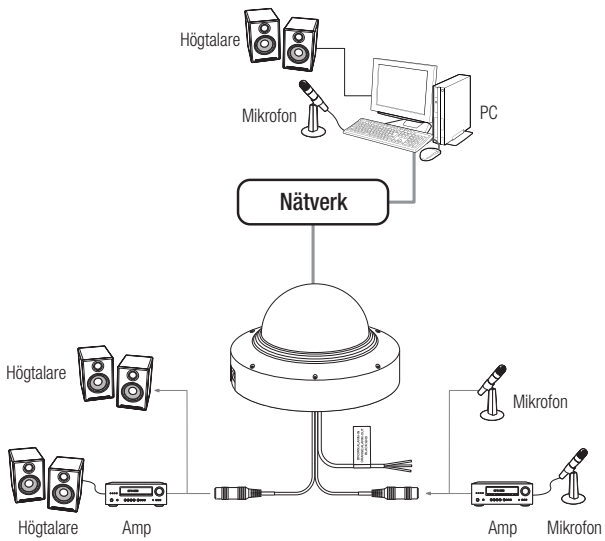
Vid DC 12V ingång:

Kabeltyp (AWG)	#22	#20	#18
Kabellängd (Max.)	24m	38m	60m

Specifikation för nätverkskabel

Artikel	Innehåll	Anmärkning
Anslutningsanordning	RJ45 (10/100/1000BASE-T)	
Ethernet	10/100/1000BASE-T	Om 1000BASE-T ska användas bör en UTP-6-kabel eller senare användas med Giga Hub.
Kabel	UTP Kategori 6	
Max avstånd	100M	DC-resistens ≤ 0,188 Ω/m
Stöd för PoE+	IEEE 802.3at	

Ansluta till ingående/utgående ljud

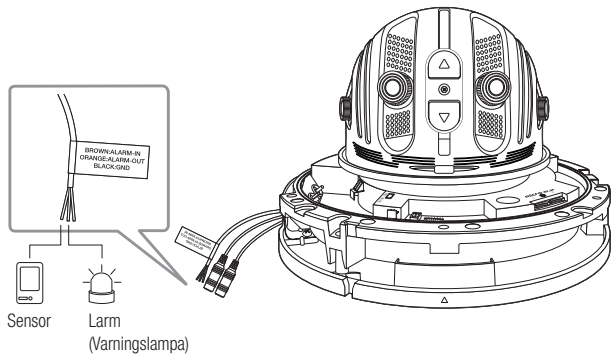


1. Anslut porten AUDIO IN på kameran med mikrofonen eller med porten LINE OUT på förstärkaren som mikrofonen är ansluten till.
2. Anslut porten AUDIO OUT på kameran med högtalaren eller med porten LINE IN på förstärkaren som högtalaren är ansluten till.
3. Kontrollera specifikationerna för ljudingång.

- **Audio Codec**
  - Ljud In : G.711 PCM (bithastighet: 64 kbit/s/samplingsfrekvens: 8 kHz), G.726 ADPCM (bithastighet: 16 kbit/s, 24 kbit/s, 32 kbit/s, 40 kbit/s/samplingfrekvens: 8 kHz), AAC (bithastighet: 48 kbit/s/samplingsfrekvens: 16 kHz)
- **Full duplex Audio**
- **Audio in** : Valfri (mikrofon/linje in), spänning som stöds: 2,5 V DC (4 mA), ingångsimpedans: 2 k Ohm
- **Audio out** : Linje ut (3,5 mm monouttag), max uteffekt: 1 vms
- **Impedans för linje ut** : 600Ω

Anslutning till I/O-portboxen

Anslut Larmets ingångs- och utgångskabel till motsvarande port i portboxen.



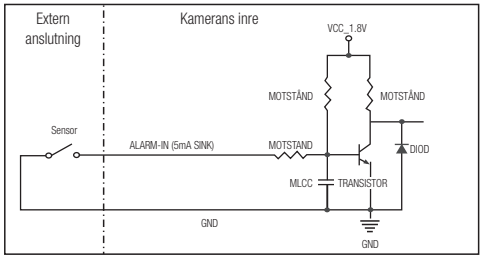
- ALARM-IN : Används för att ansluta alarmingångssensorn.
- ALARM-OUT : Används för att ansluta utgående alarmsignal.
- GND : Gemensam port för in-/utgående signal för alarm.

▪ Om enheter (t ex blinkande ljus eller siren) som överstiger specifikationerna för spänning och strömstyrka ansluts med open collector-metoden kan fel uppstå.
Se "**Kopplingsschema för Alarm-ut**" när du ansluter enheter som överstiger specifikationerna för spänning och ström. (sidan 18)

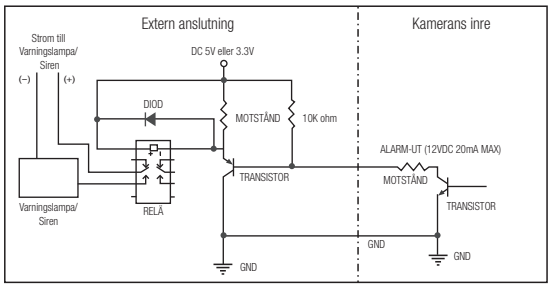
Så här ansluter du den externa sensorn

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



Kopplingsschema för Alarm-ut

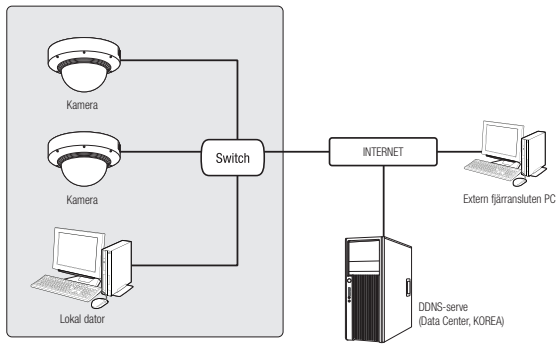


Du kan göra nätverksinställningar enligt dina nätverkskonfigurationer.

ANSLUTA KAMERAN DIREKT TILL LOKALT NÄTVERK

Ansluta till kameran från en lokal dator i nätverket

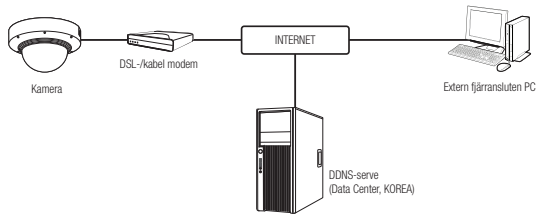
1. Starta Internet-klienten på den lokala datorn.
2. Ange IP-adressen för kameran i adressfältet för webbläsaren.



<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.
- I IP-installationsprogrammet kan du använda det initiala lösenordet, "**4321**" för att ange IP-adress, nätmask, Gateway, HTTP-port, VNP-port, IP-typ. Efter byte av nätverksgränssnittet ska du öppna webbvisningen och ändra lösenordet för högre säkerhet.
- 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.
  Om du vill ändra IP-adressen ska du använda IP-installationsprogrammet.
  För mer information om användning av IP-installationsprogrammet, se "**Inställning av fast IP**". (sidan 20)

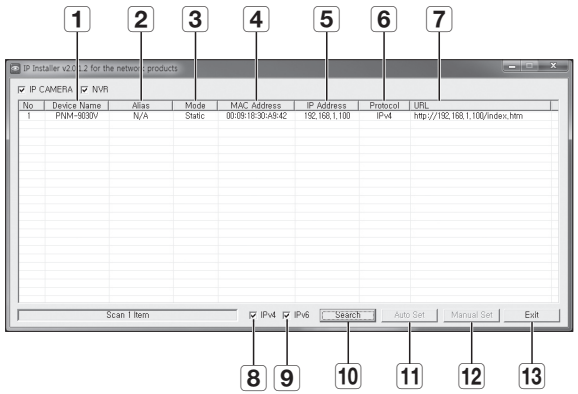
ANSLUTA KAMERAN DIREKT TILL ETT DHCP-BASERAT DSL/ KABELMODEM



1. Anslut användar-PC:n direkt till nätverkskameran.
2. Kör IP-installationsprogrammet och ändra IP-adress för kameran så att du kan använda webbläsaren på skrivbordet 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.

KNAPPAR SOM ANVÄNDS I IP-INSTALLATIONEN



Post	Beskrivning
1 **Device Name**	Modellnamn för ansluten kamera. Klicka i kolumnen för att sortera listan enligt modellnamn. Sökningen stoppas dock om du klickar under sökningen.
2 **Alias**	Den här funktionen är inte implementerad just nu.
3 **Mode**	Visar antingen <**Static**> eller <**Dynamic**> för aktuell nätverksanslutningsstatus.
4 **MAC(Ethernet) Address**	Ethernet-adress för ansluten kamera. Klicka i kolumnen för att sortera listan enligt Ethernet-adress. Sökningen stoppas dock om du klickar under sökningen.
5 **IP Address**	IP-adress. Klicka i kolumnen för att sortera listan enligt IP-adress. Sökningen stoppas dock om du klickar under sökningen.
6 **Protocol**	Nätverksinställning för kamera. Fabriksstandard är "IPv4". Kameror med IPv6-inställning visas som "IPv6".
7 **URL**	DDNS URL-adressen möjliggör åtkomst från externt Internet. Detta ersätts dock av <**IP Address**> för kameran om DDNS-registreringen misslyckas.
8 **IPv4**	Söker kameror med IPv4-inställning.
9 **IPv6**	Söker kameror med IPv6-inställning. Endast aktiverad i en Ipv6-kompatibel miljö.
10 **Search**	Söker kameror som är anslutna till nätverket. Den här knappen blir dock gråmarkera om varken IPv4 eller IPv6 är markerat.
11 **Auto Set**	IP-installationsprogrammet konfigurerar nätverksinställningarna automatiskt.
12 **Manual Set**	Du ska konfigurera nätverksinställningarna manuellt.
13 **Exit**	Stänger IP-installationsprogrammet.

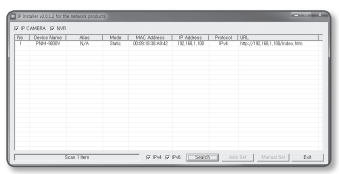
- För IP-installeraren, använd endast installationsversionen som medföljer installations-CD:n eller den senaste versionen om den finns tillgänglig. Du kan nu hämta den senaste versionen från webbsidan för Hanwha Techwin.
- Om operativsystemet som stöds är Windows 8.1, rekommenderar vi att du använder Wisenet Device Manager istället för IP Wisenet. Wisenet Device Manager Program kan hämtas genom att gå till webbplatsen för Hanwha Techwin (http://www.hanwha-security.com) under menysökvägen <**Teknisk guide**> - <**Online-verktyg**>.

INSTÄLLNING AV FAST IP

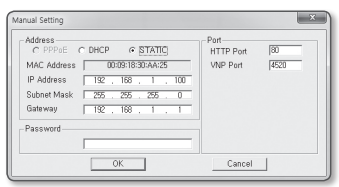
Manuell nätverksinställning

Kör <**IP Installer_v2.XX.exe**> för att visa kamerasöklistan.
Vid den första starten blir både [**Auto Set**] och [**Manual Set**] gråmarkerade.

- För kameror med IPv6-inställning blir de här knapparna gråmarkerade, eftersom kamerorna inte stöder den här funktionen.



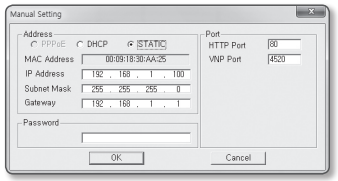
1. Sök en kamera i listan.
   Kontrollera MAC-adressen för kameran på kameraetiketten.
   Båda knapparna [**Auto Set**] och [**Manual Set**] aktiveras.
2. Klicka på [**Manual Set**].
   Dialogrutan för Manual Setting visas.
   <**IP Address**>, <**Subnet Mask**>, <**Gateway**>, <**HTTP Port**>, och <**VNP Port**> för kameran visas med förinställda värden.
3. I rutan <**Address**> anger du nödvändig information.
   - MAC (Ethernet) Address : MAC-adressen som är tryckt på kameraetiketten visas automatiskt och kräver ingen användarinställning.



- IP-relaterade parametrar kan endast ställas in när DHCP inte är markerat.

Utan användning av en Bredbandsrouter

För inställning av <**IP Address**>, <**Subnet Mask**> och <**Gateway**>, kontakta nätverksadministratören.



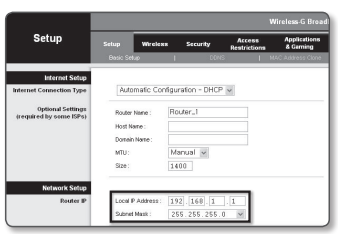
4. I rutan <**Port**> anger du nödvändig information.
   - HTTP Port : Används för att komma åt kameran med Internetklienten, med standard på 80.
   - VNP Port : Används för att kontrollera videosignalöverföringen, med 4520 som standard.
5. Ange lösenord.
   Ange lösenordet för "**admin**"-kontot, som användes för att öppna kameran.

- Av säkerhetsskäl rekommenderar vi att du använder en kombination av siffror, versaler, gemener och specialtecken för lösenordet.
- För information om hur du konfigurerar lösenordet, se onlinehjälpen för webbvisaren.

6. Klicka på [**OK**].
   Den manuella nätverksinställningen slutförs.

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 22)

Om Bredbandsrouter har mer än en kamera ansluten

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

ex)

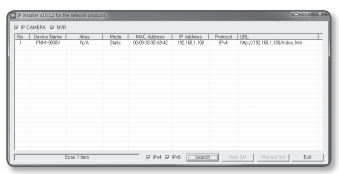
Kategori		Kamera #1	Kamera #2
IP-relaterade inställningar	IP Address Subnet Mask Gateway	192.168.1.100 255.255.255.0 192.168.1.1	192.168.1.101 255.255.255.0 192.168.1.1
Portrelaterade inställningar	HTTP Port VNP Port	8080 4520	8081 4521

- 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

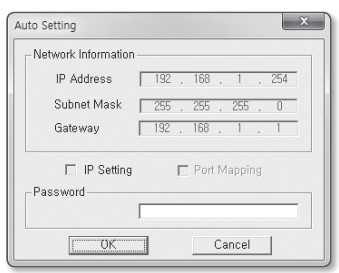
Automatisk nätverksinställning

Kör <**IP Installer_v2.XX.exe**> för att visa kamerasöklistan.
Vid den första starten blir både [**Auto Set**] och [**Manual Set**] gråmarkerade.

- För kameror med IPv6-inställning blir de här knapparna gråmarkerade, eftersom kamerorna inte stöder den här funktionen.



1. Välj en kamera i söklistan.
   Kontrollera MAC-adressen för kameran på kameraetiketten.
   Båda knapparna [**Auto Set**] och [**Manual Set**] aktiveras.
2. Klicka på [**Auto Set**].
   Dialogrutan Auto Setting visas.
   <**IP Address**>, <**Subnet Mask**> och <**Gateway**> ställs in automatiskt.
3. Ange lösenord.
   Ange lösenordet för "**admin**"-kontot, som användes för att öppna kameran.



- Av säkerhetsskäl rekommenderar vi att du använder en kombination av siffror, versaler, gemener och specialtecken för lösenordet.
- För information om hur du konfigurerar lösenordet, se onlinehjälpen för webbvisaren.

4. Klicka på [**OK**].
   Den automatiska nätverksinställningen slutförs.

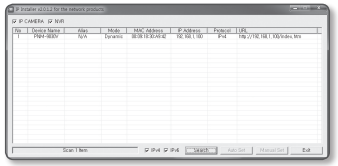
DYNAMISK IP-INSTÄLLNING

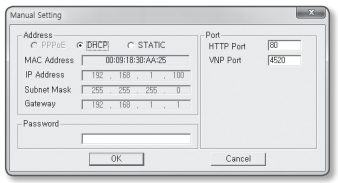
Inställning av dynamisk IP-miljö

- 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

Kontrollera dynamisk IP

1. Kör IP-installationsfilen på användarens dator.
   Kameror som allokerats med <**Dynamic IP**>-adress visas i listan.
2. Välj en kamera i sökresultatet.
3. Klicka på knappen [**Manual Set**] och kontrollera kamerans <**Dynamic IP**>-adress.
   Om du avmarkerar <**DHCP**>, kan du ändra IP till <**Static**>.



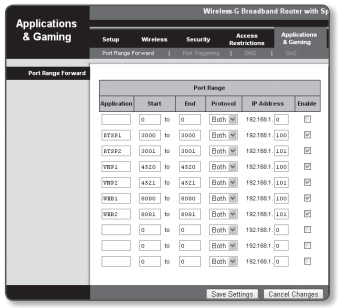


PORTINTERVALLSINSTÄLLNING FRAMÅT (PORTMAPPNING)

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.



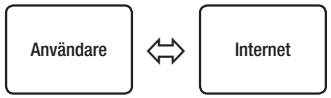
3. När du är klar klickar du på [**Save Settings**].
   Inställningarna sparas.

- Instruktionerna ovan är baserade på CISCO:s Bredbandsrouter.
- 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
4520	4520	TCP/UDP	192.168.1.100
4521	4521	TCP/UDP	192.168.1.101
8080	8080	TCP/UDP	192.168.1.100
8081	8081	TCP/UDP	192.168.1.101

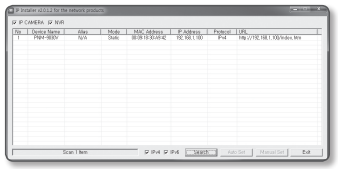
Kamera1 (192.168.1.100)	
HTTP-port	8080
Enhetsport	4520
RTSP-port	3000

Kamera2 (192.168.1.101)	
HTTP-port	8081
Enhetsport	4521
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 IP-installationsprogrammet.
   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

Eftersom användning av IP-installationsprogrammet på en fjärrdator som inte är i Bredbandsrouter nätverk är otillåten kan anävndare få tillgång till kameror inom ett Bredbandsrouter nätverk genom att använda kamerans DDNS-URL.

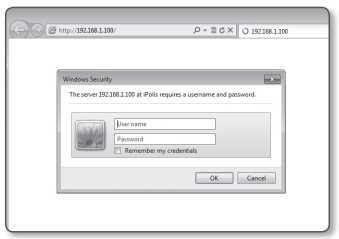
1. Innan du kan få åtkomst till en kamera i nätverket för Bredbandsrouter ska du ha ställt in portintervall för vidarebefordran för Bredbandsrouter.
2. Starta Internet-klienten från fjärrdarotn och skriv in DDNS URL-adressen för kameran, eller IP-adressen för Bredbandsrouter i adressfältet.
   ex) http://ddns.hanwha-security.com/ID

- För information om hur du registrerar DDNS, se nätverksinställningsguiden.

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.

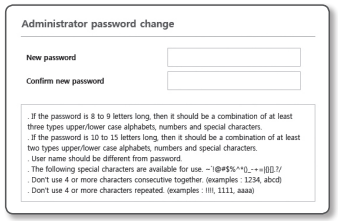
Kontrollera DDNS-adressen

Om kameran är ansluten direkt till en DHCP-baserad kabel via modem eller DSL-modem, ändras IP-adressen varje gång den försöker ansluta till ISP (företaget du prenumererar på).
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.
När fönstret för "**Lösenordsändring**" visas anger du ett nytt lösenord.

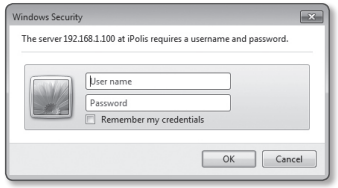


- För ett nytt lösenord med 8 till 9 tecken måste du använda minst 3 av följande alternativ: versaler/gemener, siffror och specialtecken. För ett lösenord med 10 till 15 siffror måste du använda minst 2 typer av ovan nämnda alternativ.
  - Specialtecken som tillåts. : ~`!@#$%^*()_-+=|{}[].?/
- För ökad 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.

SPECIFIKATIONER

Artiklar		Beskrivning
Video	Bildenhet	1/2,8 tum 5M CMOS x 4CH
	Totalt antal pixlar	2.704 (H) x 2.104 (V) 5,69M x 4CH
	Effektiva pixlar	2.616 (H) x 1.964 (V) 5M x 4CH
	Skanningssystem	Progressiv skanning
	Min. upplysning	Färg: 0,15 lux (F2.0, 1/30 sek, 30 IRE) Sv/v: 0,01 lux (F2.0, 1/30 sek, 30 IRE)
	Video ut	USB: Micro USB Type B, 1 280 x 720 för installation
Objektiv	Fokallängd (zoomförhållande)	4mm
	Max. bländarförhållande	F2.0
	Vinkel på visningsfält	[180º-läge] H: 180˚, V: 70˚, [220º-läge] H: 220˚, V: 52˚
	Min. avstånd till objekt	3 m (9,84 fot): Minsta rekommenderade avstånd
	Objektivtyp	Fast fokus
	Monteringstyp	Inbyggd (M12)
Panorering/ Tiltning/Rotering	Panoreringsområde	355°
	Tiltningsområde	60˚
	Rotationsintervall	-
Användning	Kameratitel	Av / På (visas med 75 tecken) - B/B: Engelska/numeriska/specialtecken - Vanligt: Flerradigt (Max 5), Färg (grå/grön/röd/blå/svart/vit), transparens, autoskala enligt upplösning
	Dag och natt	Auto (ICR) / Färg / Svartvit / Schema
	Motljuskompensation	AV / BLC / WDR
	Brett dynamiskt intervall	120 dB
	Kontrastförstärkning	SSDR (Av/På)
	Digital brusreducering	SSNRIII (2D+3D Brusfilter) (Av/På)

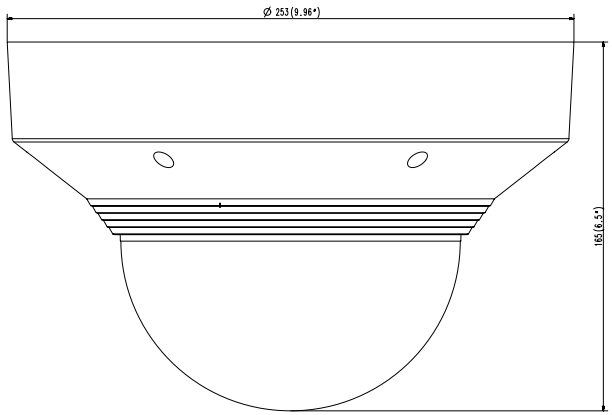
Artiklar		Beskrivning
Användning	LDC	Stöd
	Dimborttagning	Auto/Manuell/Av
	Rörelsedetektering	På/Av (8ea, 8 punkters polygonala zoner), överlämning
	Sekretessmask	Av / På (16ea, rektangulära zoner) - Färg: grå, grön, röd, blå, svart, vit - Mosaik
	Gain-kontroll	Av / Låg / Medel / hög
	Vitbalans	ATW / AWC / manuell / inomhus / utomhus
	Kontrast	Nivåjustering
	Elektronisk slutarhastighet	Minimum / Maximum / Antiflimmer (2 ~ 1/12 000 sek)
	Vänd/spegelvänd	Vänd : På / Av Spegelvänd : På / Av
	Intelligent videoanalys	Manipulering, Störning, Riktningsdetektering, Virtuell linje, Ingång/utgång, Visa/ Dölj, Ljudidentifiering, Ansiktsdetektering, Rörelsedetektering, Dimdetektering, Ljudklassificering
	Alarm I/O	Utgång 1ea / Ingång 1ea
	Audio In	Line IN Matningsspänning: 2.5VDC(4mA), Ingångsimpedans: approx. ca. 2000 Ohm
	Audio ut	Linje ut (3,5 mm stereominiuttag)
	Alarmutlösare	Larmingång, Rörelsedetektering, Video och audioanalys, Nätverk frånkopplat
	Alarmhändelser	• Filöverföring via FTP, e-post • Meddelande via e-post • Inspelning på lokal lagringsenhet (SD/SDHC/SDXC) eller NAS i frånkopplat nätverk och vid händelse (alarmutlösare) • Extern utgång
	Pixelantal	Support

Artiklar		Beskrivning
Nätverk	Ethernet	RJ-45 (10/100/1000 BASE-T)
	Video komprimerings format	H.265 (HEVC): Main H.264 (MPEG-4 Part 10/AVC): Main/Baseline/High MJPEG
	Upplösning	[180°-läge] 6096x2540, 5760x2400, 5472x2280, 5184x2160, 4800x2000, 4560x1900, 4096x1704, 3840x1600, 2688x1120, 2560x1064, 2048x852, 1920x800, 1280x532, 640x264 [220°-läge] 7744x1936, 6096x1524, 5760x1440, 5472x1368, 5184x1296, 4800x1200, 4560x1140, 4096x1024, 3840x960, 2688x672, 2560x640, 2048x512, 1920x480, 1280x320, 640x160
	Max. ramhastighet	H.265/H.264 : Max 30fps i alla upplösningar MJPEG: max 15 fps vid 2 MP
	Smart Codec	Manuellt läge (områdesbaserat: 5 ea)
	WiseStream II	Support
	Videokvalitetsjustering	H.264/H.265 : Målbithastighetskontroll MJPEG : Målbithastighetskontroll
	Metod för bildhastighetskontroll	H.264/H.265 : CBR eller VBR Motion JPEG : VBR
	Strömningskapacitet	Multipel strömning (upp till 5 eller 3 profiler för vardera CH)
	Ljudkomprimeringsformat	G.711 µ-law /G.726 Valbar G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48 kbit/s vid 16 KHz
	Ljudkommunikation	Dubbelriktad (2-vägs)
	IP	IPv4, IPv6
	Protokoll	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP

Artiklar		Beskrivning
Nätverk	Säkerhet	HTTPS(SSL) inloggningsautentisering Digest inloggningsautentisering IP-adressfitrering användaråtkomstlogg 802.1X autentiseringsmetod (EAP-TLS, EAP-LEAP)
	Strömningsmetod	Unicast / Multicast
	Max. användaråtkomst	15 användare i Unicast-läge
	Edge-lagring	SD/SDHC/SDXC (upp till 256 GB) - Inspelningar med rörliga bilder på SD-/SDHC-/SDXC-minneskort kan laddas ned. NAS(Network Attached Storage) Lokal dator för omedelbar inspelning
	Programmeringsgränssnitt	ONVIF Profile S/G SUNAPI(HTTP API)
	Webbsidspråk	Engelska, Franska, Tyska, Spanska, Italienska, Kinesiska, Koreanska, Ryska, Japanska, Svenska, Portugisiska, Tjeckiska, Polska, Turkiska, Holländska, Ungerska, Grekiska
	Webbviewer	Operativsystem som stöds : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 Webbläsare som stöds : Google Chrome 63, MS Edge 41, Mozilla Firefox 57 (endast Windows 64 bitar), Apple Safari 11 (Endast stöd i Mac OS X)
	Centralhanteringsprogram	Smart viewer, SSM
Omgivande miljö	Driftstemperatur/Luftfuktighet	-40°C ~ +55°C (-40°F ~ +131°F) / Mindre än 90 % RH * Start bör ske över -30°C
	Förvaringstemperatur / Luftfuktighet	-40°C ~ +60°C (-40°F ~ +140°F) / Mindre än 90 % RH
	Vattentäthet	IP66
	Stötskydd	IK10
Elektricitet	Volt/ström	PoE+(IEEE802.3at Class4), DC 12V
	Strömförbrukning	Max. 25,5W (PoE+), Max. 21,0W (DC 12V)
Mekanik	Färg / Material	Elfenben/Aluminum
	Mått (ØxH)	Ø253mm x H165mm (Ø9.96" x H6.5")
	Vikt	3.2Kg

PRODUKTÖVERSIKT

Enhet : mm (tum)



FELSÖKNING

PROBLEM	LÖSNING
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. • Om kameran är ansluten över ett PPPoE-nätverk är det möjligt att Viewern kopplas från under dåliga nätverksförhållanden.
Den kamera som är ansluten till nätverket identifieras inte i IP-installationsprogrammet.	• 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
Efter inställning av <Rörelsedetektering> på “Aktiv” i <Analys> levereras ingen fil via e-post även om videoanalyshändelse har inträffat på kameran.	• 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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GPL SW

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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- Version 1.1

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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

Article 1. Scope of License Agreement

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.

Article 2. Definition

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.

11. "Derivative Work" means the Modified Source Code or the Binary Code.

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

14. "System Developer" means any person who develops the Embedded Product by itself or has a third party develop the same, and provides, whether with or without payment, the End User with 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.

17. "Vicarious Execution of Patch Processing" means vicarious execution service to create the Modified Source Code applying the Patch for Modification to the Source Code or the Binary Code thereof.

18. "Source Code User" means a person who uses the Source Code.

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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.

Article 3. Copyright

1. The copyrights of the Source Code shall be owned by Ken Sakamura.

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1. to copy and/or modify the Source Code provided by T-Engine Forum hereunder for its own research, development and the like.

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.

2. Neither T-Engine Forum nor the copyright holder of the Source Code warrants that the Source Code will fit for any particular purpose of the Source Code User.

3. Neither T-Engine Forum nor the copyright holder of the Source Code warrants that the Source Code does not infringe any third party's industrial property rights. In no event shall T-Engine Forum and the copyright holder of the Source Code be liable for any dispute which may arise between the Source Code User and a third party in connection with the third party's industrial property rights.

Article 9. Indemnity

1. Neither T-Engine Forum nor the copyright holder of the Source Code shall be liable for any damages (including, but not limited to, damages resulting from loss of profit, business interruption, loss of business information or any other pecuniary damage) arising out of use or impossibility of use of the Source Code, even if T-Engine Forum and the copyright holder have been informed of the possibility of such damages.

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2. In case of breach of this License Agreement by a member of T-Engine Forum, T-Engine Forum may take appropriate measures against the member; for example, the member is disqualified from membership, depending on what kind of breach has been committed by it.

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

1. This License Agreement shall be governed by and interpreted under the laws of Japan.

2. This License Agreement is executed in both Japanese text and English text provided that the Japanese text shall govern the interpretation and performance of this License Agreement.

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Julian Seward, jseward@bzip.org

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Iperf performance test

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Feng Qin

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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).



Hanwha Techwin värnar om miljön i alla produkttillverkningssteg och vidtar ett antal åtgärder för att erbjuda kunderna miljövänligare produkter.
Eco-märkningen symboliserar Hanwha Techwin strävan att skapa miljövänligaprodukter och visar att produkten uppfyller EU RoHS Directive.



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.


Hanwha
Techwin