

WISeNet

NETWORK VIDEO RECORDER

Productspecificatiehandleiding

XRN-410S/810S
QRN-410/810
QRN-410S/810S/1610S



Netwerk video recorder

Productspecificatiehandleiding

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- ❖ De initiële beheerders-ID is "admin" en het wachtwoord dient te worden ingesteld wanneer u de eerste keer inlogt.
Wijzig uw wachtwoord a.u.b. elke drie maanden om persoonlijke informatie te beveiligen en om schade door diefstal van informatie te voorkomen.
Houd er rekening mee dat een gebruiker verantwoordelijk is voor de veiligheid en voor enig ander probleem veroorzaakt door het onjuist beheren van een wachtwoord.

BELANGRIJKE VEILIGHEIDSINSTRUCTIES

Lees deze bedieningsinstructies zorgvuldig door voordat u het apparaat gebruikt.

Volg elk van onderstaande veiligheidsinstructies.

Houd deze instructies bij de hand voor toekomstig gebruik.

- 1) Lees deze instructies.
- 2) Bewaar deze instructies.
- 3) Let op alle waarschuwingen.
- 4) Volg alle instructies.
- 5) Gebruik dit apparaat niet in de buurt van water.
- 6) Reinig het verontreinigde gebied op het productoppervlak met een zachte, droge doek of een vochtige doek. (Gebruik geen reinigingsmiddel of cosmetische producten die alcohol, oplosmiddelen of oppervlakte-actieve stoffen of oliebestanddelen bevatten omdat deze het product kunnen vervormen of beschadigen.)
- 7) Blokkeer geen ventilatieopeningen. Installeer het apparaat in overeenstemming met de instructies van de fabrikant.
- 8) Plaats het apparaat niet in de buurt van warmtebronnen zoals radiatoren, verwarmingsroosters of andere apparaten die warmte afgeven (met inbegrip van versterkers).
- 9) Vergeet het veiligheidsdoel van de gepolariseerde stekker of aardlekstekker niet. Een gepolariseerde stekker bevat twee pennen waarbij de ene pen iets breder is dan de andere. Een aardlekstekker bevat twee pennen en een aardklem. De brede pen van de gepolariseerde stekker en de aardklem van de aardlekstekker zijn bedoeld voor uw veiligheid. Als een stekker niet in het stopcontact past, kunt u het beste een elektricien raadplegen voor vervanging van het verouderde stopcontact.
- 10) Zorg ervoor dat niemand op het stroomsnoer kan staan of dat stroomsnoer beklemd kan raken, in het bijzonder bij stekkers, adapters en op het punt waar het snoer het apparaat verlaat.
- 11) Gebruik alleen accessoires die door de fabrikant zijn opgegeven.
- 12) Gebruik het apparaat alleen op een karretje, standaard, driepoot, steun of tafel die door de fabrikant is opgegeven of die bij het apparaat wordt verkocht. Wees voorzichtig wanneer u een karretje gebruikt om het apparaat te verplaatsen om te voorkomen dat het toestel of het karretje kantelt en eventueel tot verwondingen leidt.
- 13) Neem de stekker van het apparaat uit het stopcontact tijdens onweer met bliksem of wanneer het apparaat langere tijd niet worden gebruikt.
- 14) Laat onderhoud en reparaties over aan een gekwalificeerde monteur. Reparaties zijn nodig als het apparaat is beschadigd, bijvoorbeeld als het stroomsnoer of de stekker is beschadigd, vloeistof op het apparaat is gemorst of voorwerpen in het apparaat zijn gevallen, het apparaat is blootgesteld aan regen of vocht, het apparaat niet normaal werkt of het apparaat is gevallen.



VOORDAT U VAN START GAAT

Deze handleiding biedt de bedieningsgegevens die noodzakelijk zijn om het product te gebruiken en bevat een beschrijving over alle onderdelen en de functie ervan naast menu- of netwerkinstellingen.

Let op het onderstaande :

- Hanwha Techwin behoudt het auteursrecht van deze handleiding.
- Deze handleiding mag niet worden gekopieerd zonder voorafgaande, schriftelijke goedkeuring van Hanwha Techwin.
- We zijn niet aansprakelijk voor enigerlei schade aan het product ten gevolge van gebruik van niet-aanbevolen materialen en/of onderdelen of door het niet in acht nemen van de voorschriften zoals vermeld in deze handleiding.
- Als u voor onderzoek naar storingen de behuizing van het systeem wilt openen, neem dan contact op met de vakman uit de winkel waar u het product hebt gekocht.
- Voordat u een vaste schijf of een extern opslagapparaat (USB-geheugen, USB HDD enz.) toevoegt, moet u controleren of het apparaat compatibel is met dit product. Neem voor de compatibiliteitslijst contact op met de leverancier.

Waarschuwing

Batterij

Wanneer u een verkeerd type batterij plaatst in het product, dan kan dit een explosie veroorzaken.

Gebruik daarom hetzelfde type batterij als de batterij die is gebruikt in het product.

Hieronder volgen de specificaties van de batterij die u nu gebruikt.

- Normaal voltage : 3 V
- Normaal vermogen : 210 mAh
- Continue standaardlading : 0,4 mA
- Bedrijfstemperatuur : -20°C ~ +60°C (-4°F ~ +140°F)

Caution

- Sluit de voedingskabel aan op een geaard stopcontact.
- De hoofdstekker wordt gebruikt als een ontkoppelaarapparaat en dient op ieder moment in gebruik te kunnen worden genomen.
- Batterijen mogen niet worden blootgesteld aan overmatige warmte, zoals zon, vuur of soortgelijke situaties.
- Als u de batterij vervangt door een batterij van een onjuist type, bestaat er gevaar op ontploffing. Houd u bij het afvoeren van gebruikte batterijen aan de instructies.
- Wanneer de HDD het einde van de levensduur bereikt, kunnen de opgeslagen videogegevens beschadigd zijn, en kunnen wellicht niet worden hersteld.
- Het LED-statuslampje van de LED op de voorkant van het systeem knippert voortdurend om aan te geven dat de verbinding van het systeem met de HDD normaal is. Controleer het LED-statuslampje van de HDD regelmatig om te kijken of het voortdurend knippert. "Opnemen is wellicht niet mogelijk in geval van een HDD-fout. Controleer periodiek de opnamestatus en maak regelmatig een back-up van belangrijke gegevens."

Systeemstopzetting

Het uitschakelen van het product terwijl dit in gebruik is of het uitvoeren van onjuiste acties kan tot schade of storingen aan de HDD of het product leiden.

Druk op <OK> in het uitschakelvenster en verwijder vervolgens de stroomkabel om zeker te zijn dat de stroom veilig is uitgeschakeld.

U kunt eventueel een UPS-systeem installeren voor een veilig gebruik; een dergelijk systeem voorkomt schade door een onverwachte stroomonderbreking. (Voor vragen over UPS neemt u contact op met uw UPS-leverancier.)



- Indien het apparaat abnormaal is afgesloten, kan het opnieuw opstarten langer duren omdat gegevens vanaf het vaste-schijfstation moeten worden hersteld voor een juiste werking.

Bedrijfstemperatuur

De bedrijfstemperatuur (met garantie) van dit product bedraagt 0°C ~ 40°C (32°F ~ 104°F). Het product functioneert wellicht niet naar behoren, als u het direct na een lange opslagperiode opstart op een te lage temperatuur die niet onder de garantie valt.

Wanneer u het apparaat gebruikt na een lange opslagperiode en de temperatuur is te laag, plaats het product dan eerst in een ruimte en laat het op kamertemperatuur komen vooraleer u het opstart.

Vooraf voor de harde schijf die in het product is ingebouwd, moet de temperatuur binnen een bereik liggen van 5°C ~ 55°C (41°F ~ 131°F), anders valt het gebruik niet binnen de garantie. De harde schijf kan dus eveneens niet naar behoren functioneren, wanneer de temperatuur te laag is en niet binnen garantiegebruik valt.

Ethernet-poort

Deze apparatuur is bestemd voor gebruik binnenshuis. Alle communicatiekabels moeten binnen het gebouw blijven. Paket İçeriği

Beveiligingsmaatregelen

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Wijzig uw wachtwoord a.u.b. elke drie maanden om persoonlijke informatie te beveiligen en om schade door diefstal van informatie te voorkomen.

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NVR-producten die de verschillende functies ondersteunen

Funcție	Producten
Ventilator	QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S
PoE	QRN-1610S, XRN-810S, QRN-810S, XRN-410S, QRN-410S
P2P	QRN-1610S, XRN-810S, QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S
Afstandsbediening	QRN-1610S, XRN-810S, QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S De modellen QRN-410/QRN-410S en XRN-410S ondersteunen afstandsbediening wellicht niet afhankelijk van de verkoopregio.

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Productweergave

KENMERKEN

Het product neemt video en audio van netwerkcamera's op een harde schijf op waarna deze kunnen worden afgespeeld vanaf de vaste schijf.

Het product biedt tevens een externe controle-omgeving voor video en audio via het netwerk met behulp van een externe computer.

- Gebruikersvriendelijke interface
- Ondersteunt een bereik van 4K camera resoluties
- Geeft een 4K high definition afbeelding met behulp van HDMI
- Video opnemen en afspelen
- Audio opnemen en afspelen
- Ondersteunt ONVIF Profile S-standaard en RTP/RTSP-protocollen
- De bedrijfsstatus van de vaste schijf weergeven via HDD SMART
- Overschrijven van vaste schijf mogelijk
- Back-up met behulp van USB 2.0, 3.0-protocollen en externe vaste schijf
- Gelijktijdig afspelen van 4, 8 kanalen
- Diverse zoekmodi (Tijd, gebeurtenis, Smart, tekst, back-up, ARB)
- ARB-ondersteuning (configuratiefunctie voor het opslaan van periode per kanaal)
- Diverse opnamemethoden (Normaal, Gebeurtenis, Geplande opname)
- Alarminvoer/-uitvoer
- Functie voor externe bewaking via Windows Network Viewer
- Live-bewaking van de netwerkcamera
- Installatiewizard-functie (Eenvoudige Installatie, Snelle installatie)
- Ondersteunt de smartphone monitoring op-afstandsfunctie met P2P-ondersteuning
- Biedt smartphone gebeurtenisalarm (verstuurt real-time gebeurtenisberichten)

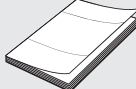
Inhoud van de verpakking

Verwijder de verpakking van het product en plaats het product op een vlakke ondergrond of op de plaats waar het moet worden geïnstalleerd.

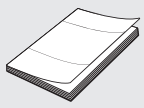
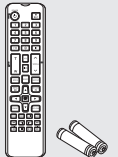
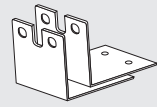
Controleer of de productverpakking de hoofdeenheid en alle volgende accessoires bevat.

- De categorie accessoires en de hoeveelheid ervan kunnen variëren afhankelijk van het afzetgebied.

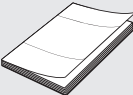
XRN-410S/QRN-410/QRN-410S

		
NVR	Muis	Voedingskabel
		
Voedingsadapter	Snelstartgids	Klemmenblok (n.v.t. op QRN-410S)
		
HDD-bevestigingsschroef (Voor modellen zonder geïnstalleerde HDD)	SATA-Kabel (Voor modellen zonder geïnstalleerde HDD)	

XRN-810S/QRN-1610S

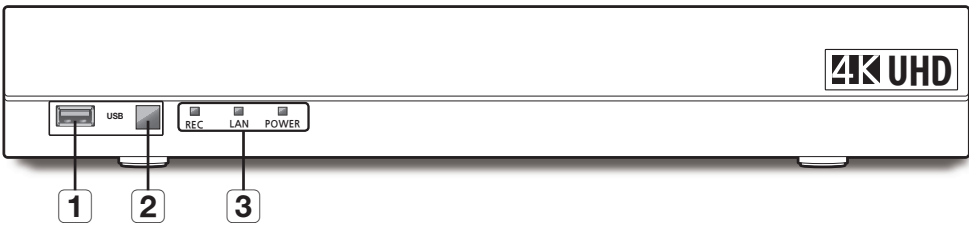
		
NVR	Muis	Voedingskabel
		
Snelstartgids	Klemmenblok	Afstandsbediening / Batterij voor de afstandsbediening (AAA)
		
Steunrek	Bevestigingsschroef voor de steun	

QRN-810/QRN-810S

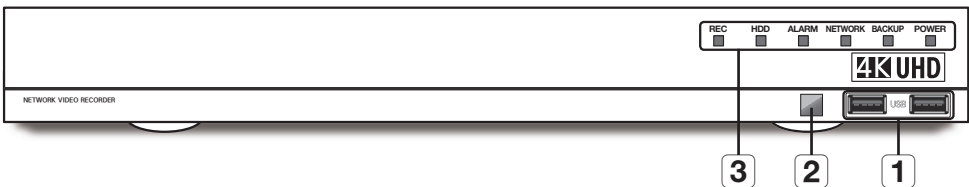
		
NVR	Muis	Voedingskabel
		
Voedingsadapter	Snelstartgids	Terminal block (n.v.t. op QRN-810S)
		
Afstandsbediening / Batterij voor de afstandsbediening (AAA)	HDD-bevestigingsschroef (Voor modellen zonder geïnstalleerde HDD)	SATA-Kabel (Voor modellen zonder geïnstalleerde HDD)

ONDERDELEN EN FUNCTIES (VOORZIJD)

XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S



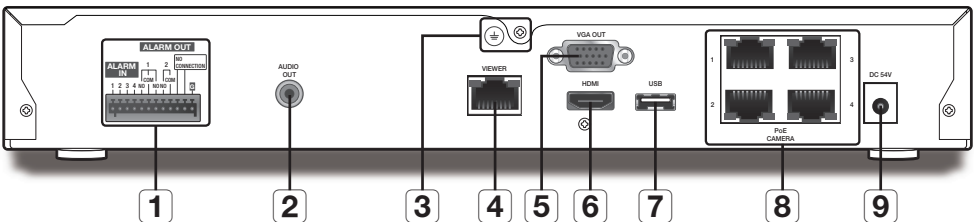
XRN-810S/QRN-1610S



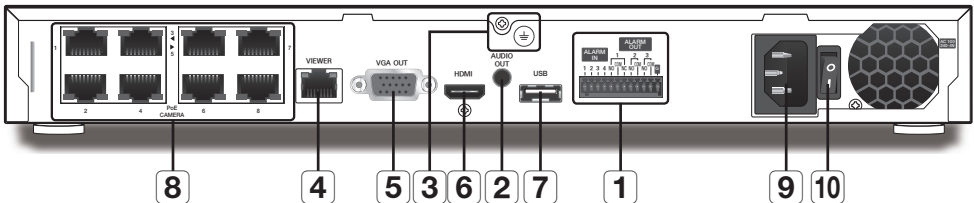
Onderdelen	Functies
1 USB	Aansluiting voor USB-apparaten. (USB 2.0 -ondersteund)
2 Systeem voor ontvangst afstandsbediening	Het signaal van de afstandsbediening ontvangen.
3 Indicatielampje (LED)	REC : gaat branden wanneer een opname in gang is. HDD : Geeft aan dat de vaste schijf wordt gebruikt. LED gaat branden wanneer u de harde schijf gebruikt. (XRN-810S/QRN-1610S) ALARM : gaat branden wanneer zich een gebeurtenis voordoet. (XRN-810S/QRN-1610S) NETWORK (LAN) : geeft de status weer van de netwerkverbinding en gegevenstransmissie. BACKUP : Blijft AAN als back-up aan de gang is. (XRN-810S/QRN-1610S) POWER : Toont de AAN/UIT-status van de voeding.

ONDERDELEN EN FUNCTIES (ACHTERZIJDE)

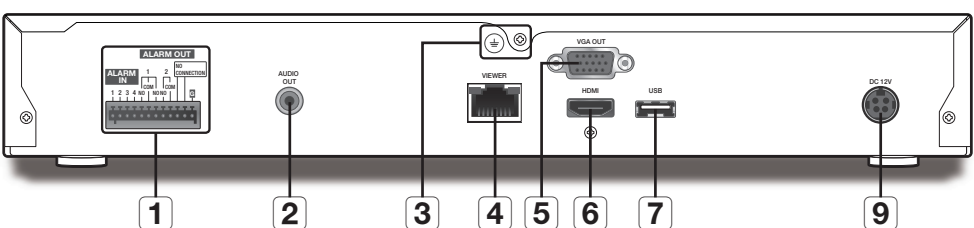
XRN-410S



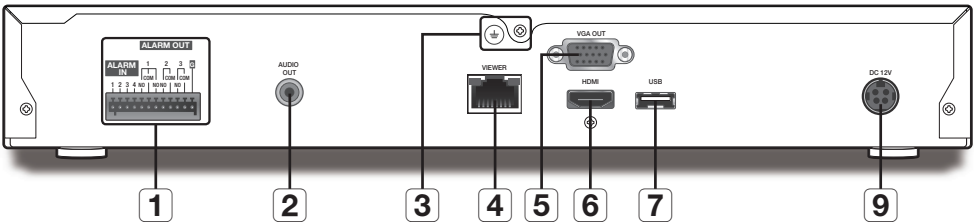
XRN-810S



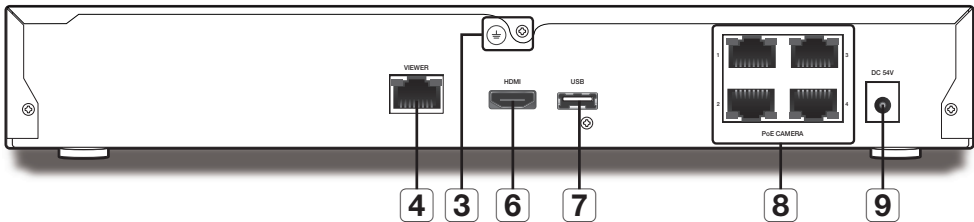
QRN-410



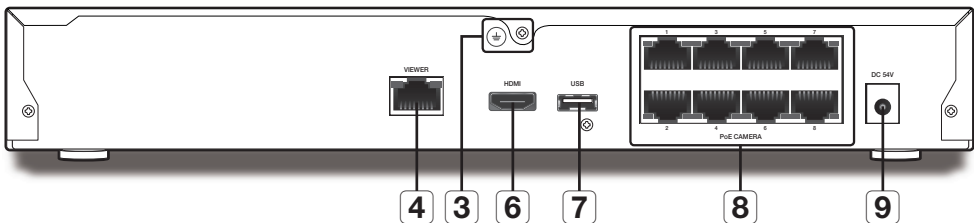
QRN-810



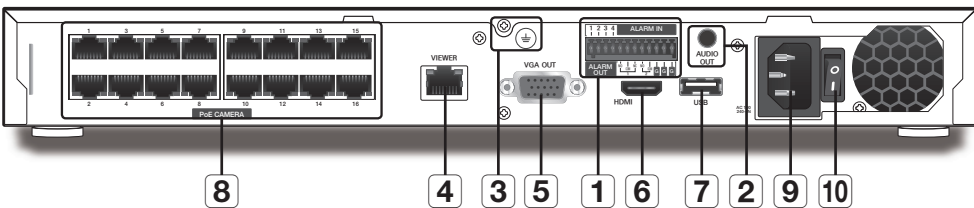
QRN-410S



QRN-810S



QRN-1610S



Onderdelen		Functies
1	ALARM	- ALARM IN : Alarmingangen. (1~4 CH) - ALARM OUT : Alarmuitgangen. XRN-410S/QRN-410/QRN-1610S : 1~2 CH XRN-810S/QRN-810 : 1~3 CH
2	AUDIO OUT	Uitgang voor audiosignaal (RCA-stekker).
3	Aarding	Klem om een aparte aardkabel op aan te sluiten. ■ Voeg een aardkabel toe om veilig gebruik van het apparaat te bevorderen.
4	VIEWER	Poort die aanbevolen wordt voor verbinding met een netwerk, webviewer.
5	VGA OUT	VGA-videosignaaluitgang.
6	HDMI	HDMI-aansluiting.
7	USB	Aansluiting voor USB-apparaten. (USB 3.0 -ondersteund)
8	PoE (CAMERA)	Voedingspoort om een camera mee te verbinden.
9	Power	Aansluiting voor de netspanning.
10	Aan/Uit-schakelaar	Stroom aan/uit schakelaar.

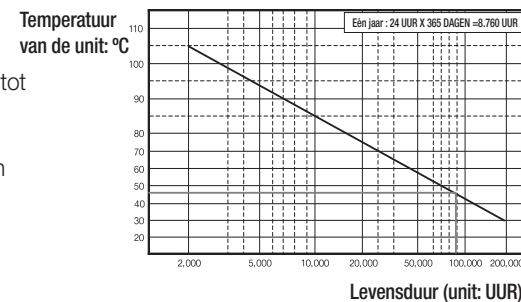
Houd rekening met het volgende voordat u het product gaat gebruiken.

- Gebruik het product niet buitenshuis.
- Mors geen water of vloeistof over het aansluitgedeelte van het product.
- Stel het apparaat niet bloot aan harde schokken of druk.
- Trek de stekker niet met geweld uit het stopcontact.
- Demonteer het apparaat nooit zelf.
- Het vastgestelde invoer- of uitvoerbereik mag niet worden overschreden.
- Gebruik alleen een goedgekeurd netsnoer.
- Gebruik voor producten met een aardeaansluiting een geaard stopcontact,

DE INSTALLATIEOMGEVING CONTROLEREN

Dit product is een hoogtechnologisch beveiligingsapparaat met een grote, interne vaste schijf en moderne circuits.

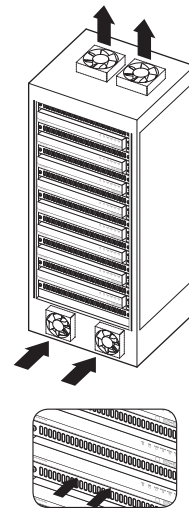
Let op: een te hoge temperatuur binnen in het product kan tot een systeemstoring leiden of kan de levensduur van het product bekorten (zie de afbeelding rechts). Houd de volgende instructies in uw achterhoofd bij het installeren van het product.



[Afbeelding 1]

Wanneer het product op een rek wordt geïnstalleerd, dient u de volgende instructies op te volgen.

1. Controleer dat de binnenkant van het rack niet is afgedicht.
2. Zorg ervoor dat de lucht vrij kan stromen via de inlaat/uitlaat, zoals aangegeven in de afbeelding.
3. Als u de producten opstapelt of andere producten voor rackmontage gebruikt zoals weergegeven in figuur 2, moet u ventilatorsysteem in de ruimte installeren.
4. Zorg voor een natuurlijke luchtstroom door de inlaat aan de onderkant te plaatsen en de uitlaat aan de bovenkant.
5. Het is sterk aan te raden een ventilatormotor te plaatsen bij de inlaat en de uitlaat om de luchtcirculatie te bevorderen. (Voorzie de inlaat van een filter om stof en andere substanties buiten het systeem te houden.)
6. Houd de temperatuur binnen en rond het rack tussen 0°C en 40°C, zoals aangegeven in afbeelding.

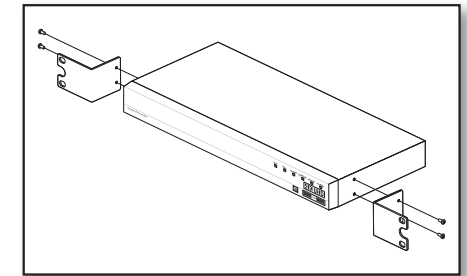


[Afbeelding 2]

INSTALLATIE IN RACK

Installeer het steunrek zoals aangegeven in de afbeelding en bevestig vervolgens de schroeven aan beide kanten.

- Draai de schroeven vast zodat ze niet door trillingen losraken.



<XRN-810S/QRN-1610S>

VASTE SCHIJVEN TOEVOEGEN

Haal de stekker uit het stopcontact om gevaar op elektrische schokken, letsel of schade aan het product te vermijden. Neem contact op met uw leverancier voor meer informatie over het installeren van een vaste schijf, aangezien het product als gevolg van onjuiste installatie of instellingen zou kunnen worden beschadigd.

- Aantal vaste schijven dat wordt ondersteund : XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S : Max. 1
XRN-810S/QRN-1610S : Max. 2

- Haal de stekker uit het stopcontact voordat u verder gaat met de installatie.



Preventie van gegevensverlies (zorg voor de vaste schijf)

Let op het volgende om te voorkomen dat de gegevens op de HDD niet worden beschadigd.

Voordat u een vaste schijf toevoegt, moet u controleren of deze compatibel is met dit product.

Een vaste schijf is storingsgevoelig als gevolg van de gevoeligheid van dergelijke apparaten voor met name schokken tijdens bedrijf.

org ervoor dat de vaste schijf beschermd wordt tegen dergelijke schokken.

Wij zijn niet aansprakelijk voor schade aan de vaste schijf als gevolg van onachtzaamheid van of onjuist gebruik door de gebruiker.

Behuizingen kunnen schade aan de vaste schijf of de opgenomen gegevens veroorzaken

Verlaag het risico op gegevensverlies als gevolg van een beschadigde vaste schijf zoveel mogelijk door regelmatig een back-up van uw gegevens te maken.

Als het product een schok oploopt bij het uit elkaar halen of in elkaar zetten, kunnen de gegevens die op de vaste schijf zijn opgeslagen, worden beschadigd.

Een plotselinge stroomstoring of het product uitschakelen terwijl de vaste schijf operationeel is, kan de vaste schijf beschadigen.

De vaste schijf of de bestanden die erop zijn opgeslagen kunnen beschadigd worden als het toestel wordt verplaatst of aangestoten terwijl de vaste schijf in bedrijf is.

Aandachtspunten voor het installeren van de vaste schijf

1. Oefen geen overmatige kracht uit op de HDD.
2. Zorg dat u de bevestigingsschroeven of accessoires niet kwijtraakt.
 - Als de schroeven of accessoires niet op de juiste wijze zijn aangebracht, kan het product defect raken of niet goed werken.
3. Controleer voordat u een vaste schijf toevoegt of deze compatibel is met het apparaat.
 - Neem contact op met de dichtstbijzijnde dealer voor een lijst met compatibele apparaten.

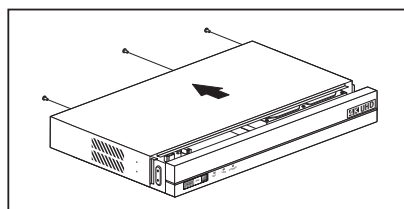
De HDD-schijf installeren

- ! ■ Als u een nieuwe of gebruikte HDD toevoegt aan dit product naast de reeds geïnstalleerde HDD('s), moet de nieuwe HDD handmatig worden geformatteerd voordat u deze kunt gebruiken.
Als u wilt weten hoe u moet formatteren, raadpleegt u "Apparaat/formatteren" in de Wisenet NVR Gebruikershandleiding.

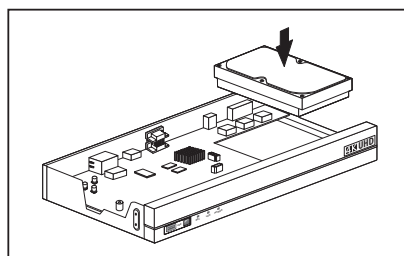
Het installeren van een HDD in XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S

- De volgende afbeeldingen zijn gebaseerd op Model XRN-410S.

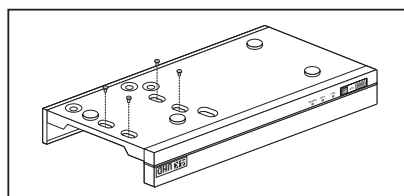
1. Na losschroeven drukt u naar achteren en verwijdt u de kap.



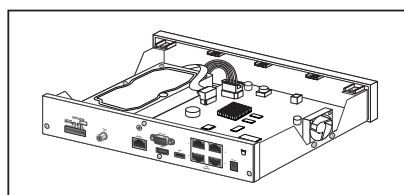
2. Sluit de SATA/voedingskabels van de HDD aan op de connectors op het moederbord.



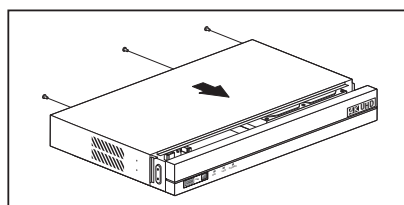
3. Maak de HDD met gebruik van de schroeven vast op de onderkant van de set.



4. Controleer op problemen in de aansluitklem en de bedrading in het product, sluit de kap en bevestig het met schroeven.



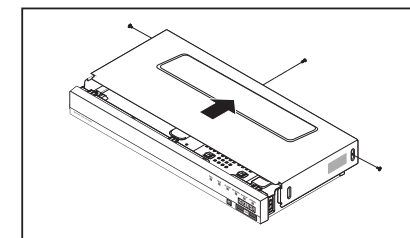
5. Sluit de kap en draai een stelschroef vast in de achterkant.



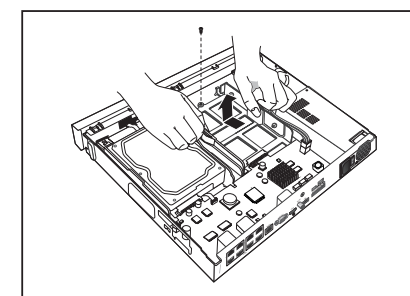
Het installeren van een HDD in XRN-810S/QRN-1610S

- De volgende afbeeldingen zijn gebaseerd op Model XRN-810S.

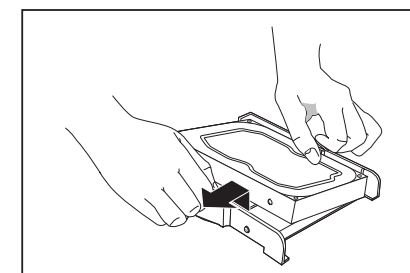
1. Na losschroeven drukt u naar achteren en verwijdt u de kap.



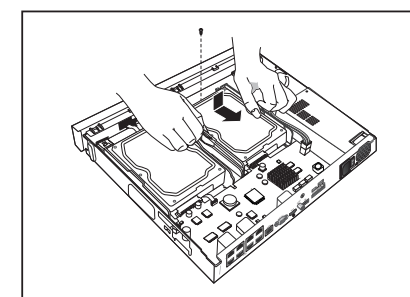
2. Scheid ze door de vaste beugelschroef los te maken en duw het richting de pijl op het bord.



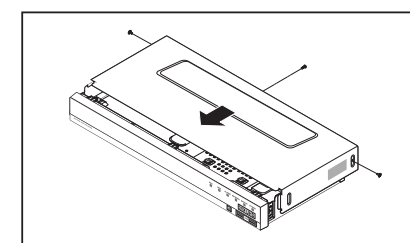
3. Na het uitlijnen en plaatsen van één zijde van de HDD in de beugel, opent u de beugel van de andere zijde wijd open en plaatst u de HDD ertussen.
■ Lijn een opening in de beugel uit met een schroefgat in de HDD om ze vast te maken.



4. Duw de beugel met de geïnstalleerde HDD en maak de schroeven vast om het te bevestigen.

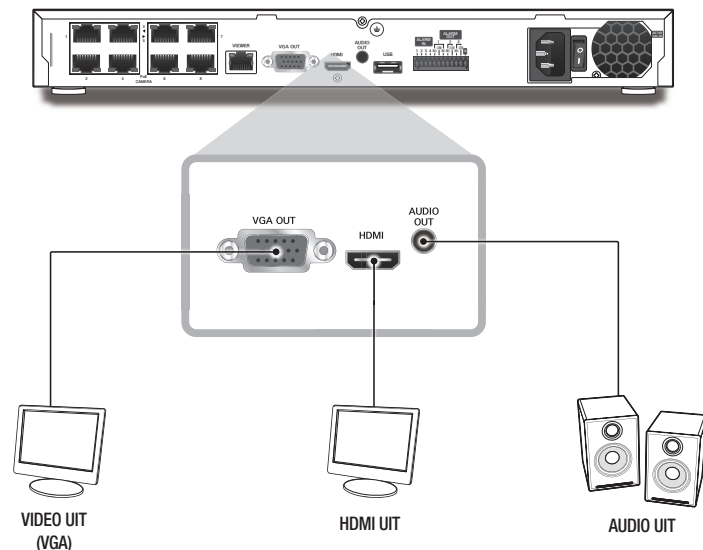


5. Sluit de kap en draai de schroeven vast om het te bevestigen.



AANSLUITEN OP EEN EXTERN APPARAAT

- De volgende afbeeldingen zijn gebaseerd op Model XRN-810S.



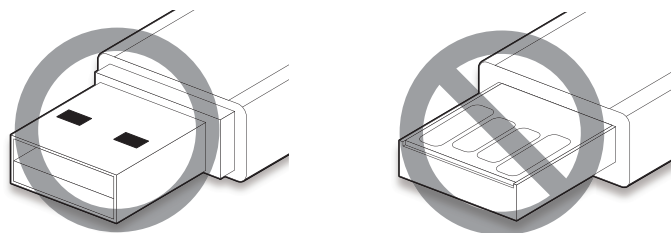
- Het gebruik van een onjuiste voedingsbron kan schade veroorzaken aan het systeem. Controleer of u een juiste voedingsbron gebruikt voordat u op de AAN/UIT-knop drukt.

DE USB AANSLUITEN

- Op de voorkant van het product zit een USB-poort.
- Op de USB-poort kunt u een vaste schijf, USB-geheugen of muis aansluiten.
- Als de USB-HDD is verbonden met het systeem, kan deze worden gedetecteerd en ingesteld door de stappen te volgen in "Menu > Toestel > Opslagapparaat" in de Wisenet NVR Gebruikershandleiding.
- Het product ondersteunt hot plugging zodat USB-apparaten kunnen worden aangesloten/ontkoppeld terwijl het systeem operationeel is.

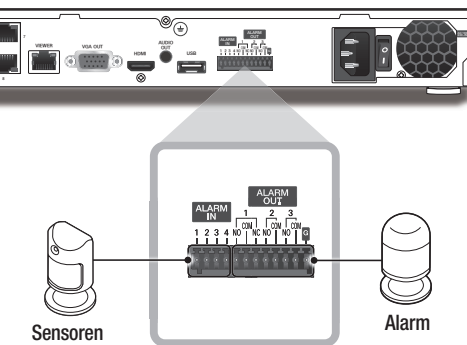


- Als u het USB-apparaat gebruikt voor het maken van back-ups, moet u dit op een pc formatteren in de indeling FAT32 als het nog niet is geformatteerd op de NVR.
- Bepaalde USB-apparaten werken mogelijk niet goed vanwege compatibiliteitsproblemen. Controleer het apparaat voordat u het gebruikt.
- Er wordt alleen gegevensoverdracht gegarandeerd voor USB-opslagapparaten die aan de normen voldoen (een metalen omhulsel).
- Wanneer de contactpunten zijn afgesleten, werkt de gegevensoverdracht tussen de apparaten mogelijk niet goed.

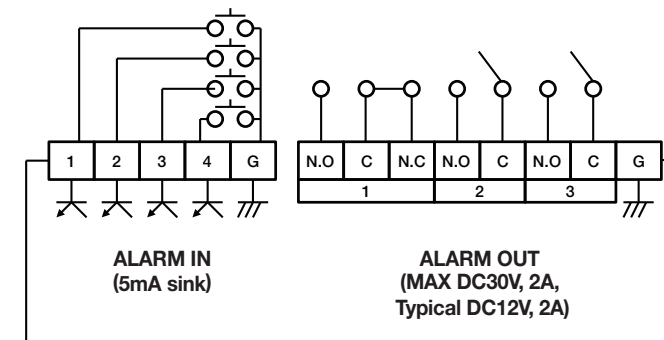


DE ALARMINVOER/UITVOER AANSLUITEN

De aansluiting Alarm In/Out aan de achterzijde is als volgt samengesteld.



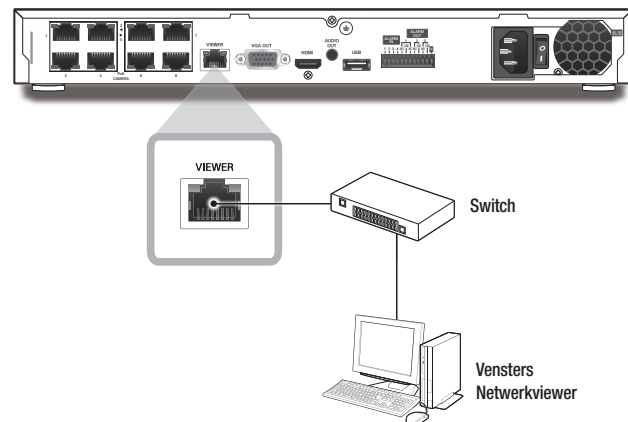
- ALARM IN 1-4: alarmingang
- ALARM OUT 1-3: alarmuitgang



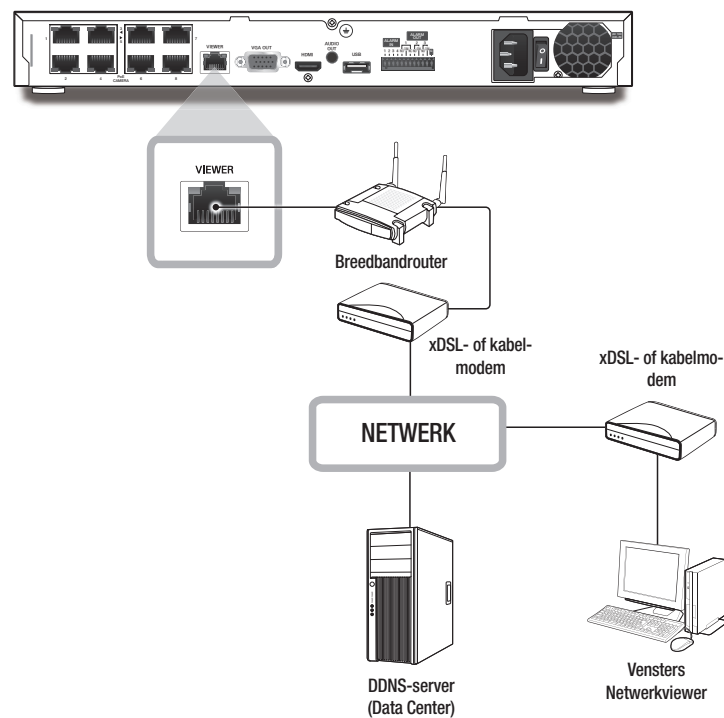
AANSLUITEN OP HET NETWERK

- Voor meer informatie over de netwerkverbinding raadpleegt u "Netwerkconfiguratie" in de Wisenet NVR Gebruikershandleiding.
- De volgende afbeeldingen zijn gebaseerd op Model XRN-810S.

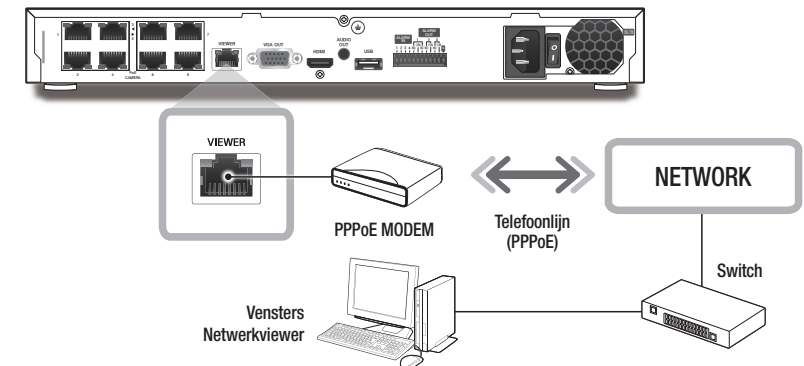
Aansluiting op het netwerk via Ethernet (10/100/1000BaseT)



Aansluiting op het netwerk via router

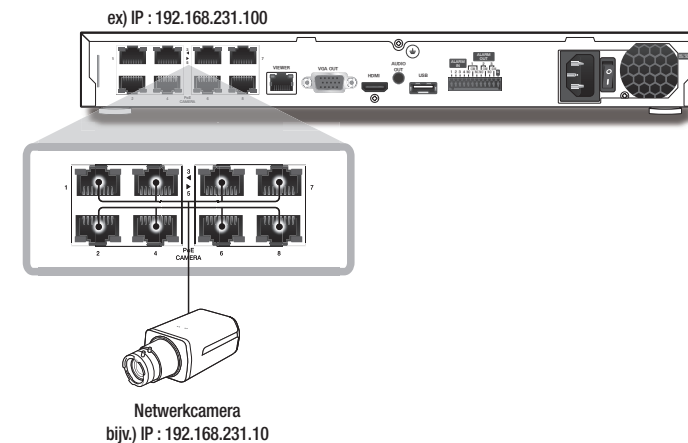


Aansluiten op Internet via PPPoE

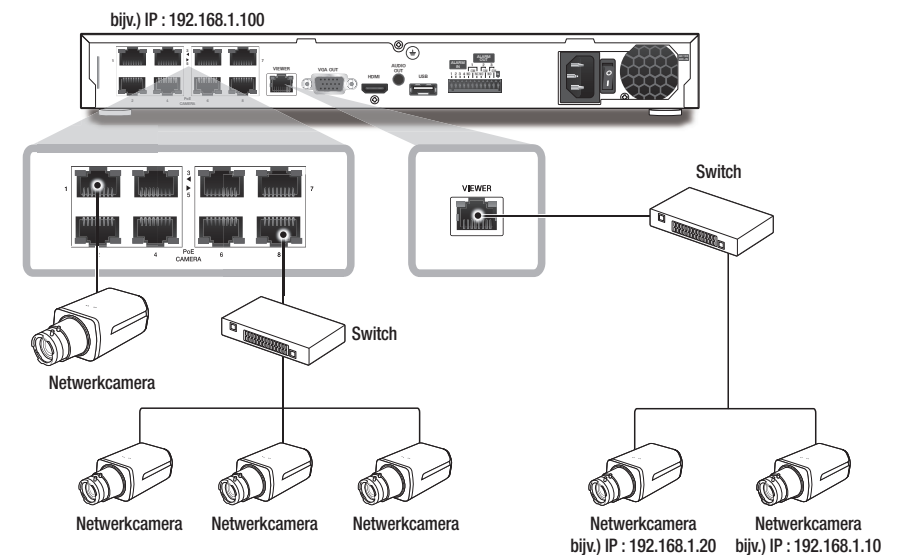


De netwerkcamera aansluiten

Bijvoorbeeld 1)



Bijvoorbeeld 2)



• XRN-410S/XRN-810S

Item		Details	
		XRN-410S	XRN-810S
Weergave			
Netwerkcamera	Ingangen	Max. 4 kanalen	Max. 8 kanalen
	Resolutie	CIF ~ 8MP	
	Protocollen	Wisenet, ONVIF	
Live	Lokale weergave	1x HDMI(HDMI 1.4) / 1x VGA	
	Prestaties	[Lokaal scherm] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - Maar voor Mjpeg is tot 2 MP toegestaan	
Prestaties			
Besturingssysteem	Geïntegreerd	Linux	
Opnemen	Compressie	H.265, H.264, MJPEG (Het kan decoderen tot 2M)	
	Bandbreedte voor opnemen	Max. 50Mbps	Max. 100Mbps
	Resolutie	CIF ~ 8MP	
Zoeken & Afspelen	Bandbreedte voor afspelen	32Mbps(4ch gelijktijdig)	32Mbps(8ch gelijktijdig)
	Prestaties	Max. 3 gebruikers (1 lokaal, 3 extern)	
	Gelijktijdig afspelen	Max. 4 Kanalen (Lokaal, Netwerk)	Max. 8 Kanalen (Lokaal, Netwerk)
	Resolutie	CIF ~ 6MP	
	Afspelen bedieningselemente	Snel/Traag Vooruit/Achteruit, Eén stap omhoog/Eén stap omlaag	
Opslag	Ingebouwd	0TB ~ 6TB (afhankelijk van regio) - Seagate : ~ 4TB	
	Interne HDD	1 (Max.6TB)	2 (Max.12TB)

Item		Details	
		XRN-410S	XRN-810S
Back-up	Bestandsback-up	BU/Exe(USB), JPG/AVI(Web, CMS)	
	Functie	Afspelen op meerdere kanalen (tot 4 kanalen), weergave van Datum-Tijd/Titel	Afspelen op meerdere kanalen (tot 8 kanalen), weergave van Datum-Tijd/Titel
Sensor	I/O	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
Audio	Invoer	4kanalen (Netwerk)	8kanalen (Netwerk)
	Compressie	G.711, G.726, AAC(16/48KHz)	
	Audio-communicatie	2-wegs	
Netwerk			
Protocol		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Cliënt), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI (Server, Cliënt)	
DDNS		Hanwha Security DDNS	
Overdracht bandbreedte		64Mbps	128Mbps
Max. aantal externe gebruikers		Zoeken (3)/Live unicast (10)/Multicast (20)	
IP-versie		IPv4/v6	
Beveiliging		Gebruikerstoegang Logboek, IP-filtering, 802.1x, Encryptie	
Talen		Engels, Frans, Duits, Italiaans, Spaans, Russisch, Turks, Pools, Nederlands, Zweeds, Tsjechisch, Portugees, Deens, Roemeens, Servisch, Kroatisch, Hongaars, Grieks, Noors, Fins, Koreaans, Chinees, Japans, Thais	
OS		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11	
Webbrowser		Plug-in gratis webweergaveprogramma Ondersteunde browser: Google Chrome 47, MS Edge 20 Plug-in webweergaveprogramma Ondersteunde browser: MS Explore 11, Apple Safari 9 * Alleen Mac OS X	
Viewersoftware	Type	SSM, Webviewer, SmartViewer, wisenet Mobile	
	CMS-ondersteuning	SDK/CGI (SUNAPI)	

Item		Details	
		XRN-410S	XRN-810S
Functies			
Camerabediening	PoE	1) PoE-stroomverbruik beeldscherm 2) Aan/uit-regeling van elke PoE-camera 3) Reset op afstand van elke PoE-camera	
Eenvoudige configuratie		Configuratiewizard (taal, datum/tijd, netwerk, automatische cameraconfiguratie) P2P (QR-code)	
Redundantie	ARB	Ja	
PTZ	Besturing	Via GUI, Webviewer, 300 voorinstellingen	
Smartphone	Ondersteuningsmodel	Android, iOS	
	Ondersteuning van protocollen	RTP, RTSP, HTTP, CGI (SUNAPI)	
Smartphone	Bediening	Live (4 kanalen): Ondersteuning meerdere profielen Afspelen (1 kanaal) Voorval duwen	Live (8 kanalen): Ondersteuning meerdere profielen Afspelen (1 kanaal) Voorval duwen
Systeembesturing		Muis, Web, IR Remocon	
Indicator/Interface			
Voorzijde	Indicator	LED (statusindicator) : 3ea Stroomverbruik Status indicator 1EA Lan Status LED 1EA Opnemen Status LED 1EA	LED (statusindicator) : 6ea Stroomverbruik Status indicator 1EA HDD-actie LED 1EA Alarm Status LED 1EA Opnemen Status LED 1EA Netwerk-actie LED 1EA Back-up LED 1EA
Aansluitingen	VGA	1 EA	
	HDMI	1 EA - Ondersteuning van tot 4K (3840 x 2160), 30Hz	

Item		Details	
		XRN-410S	XRN-810S
Aansluitingen	Audio	Uit(1EA, RCA, Lijn)	
	Ethernet	■ 4EA (PoE/PoE+, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink to CMS	■ 8EA (PoE/PoE+, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink to CMS
	Alarm	In(4EA, met klemmen) Uit (2EA, met klemmen)	In(4EA, met klemmen) Uit (3EA, met klemmen)
	USB	2EA(Voorzijde 1, Achterzijde 1)	3EA(Voorzijde 2, Achterzijde 1)
	Opslag	-	
	Serieel	-	
	Reset	Schakelaar(1EA)	
	Netsnoer	Opgenomen	
Systeem			
Logboek	Loglijst	Max. 20000 (Systeemlogboek, Gebeurtenissenlogboek elk)	
Omgevingsfactoren			
Bedrijfstemperatuur / Luchtvochtigheid		+0°C to +40°C (+32°F to +104°F)	
Vochtigheid		20% ~ 85% RH	
Elektrisch			
Stroomingang		54V DC / 1.67A	100 ~ 240 VAC ±10%
Stroomverbruik		MAX. 13W (44BTU, 2TB HDD x 1ea)	MAX. 19W (64BTU, 2TB HDD x 1ea)
PoE-budget		Max. 50W	Max. 100W
Mechanisch			
Kleur/materiaal		Zwart/metaal	
Afmetingen (B x H x D)		B300 x H47 x D208.7mm (11.81”X1.85”X8.22”) (1U)	B370 x H44 x D320mm (14.57”X1.73”X12.6”) (1U)
Gewicht		1.694Kg(2T HDD)	3.356kg(2T HDD)

• QRN-410/QRN-810

Item		Details	
		QRN-410	QRN-810
Weergave			
Netwerkcamera	Ingangen	Max. 4 kanalen	Max. 8 kanalen
	Resolutie	CIF ~ 8MP	
	Protocollen	Wisenet, ONVIF	
Live	Lokale weergave	1x HDMI(HDMI 1.4) / 1x VGA	
	Prestaties	[Lokaal scherm] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - Maar voor Mjpeg is tot 2 MP toegestaan	
Prestaties			
Besturingssysteem	Geïntegreerd	Linux	
Opnemen	Compressie	H.265, H.264, MJPEG (Het kan decoderen tot 2M)	
	Bandbreedte voor opnemen	Max. 50Mbps	Max. 100Mbps
	Resolutie	CIF ~ 8MP	
Zoeken & Afspelen	Bandbreedte voor afspelen	32Mbps(4ch gelijktijdig)	32Mbps(8ch gelijktijdig)
	Prestaties	Max. 3 gebruikers (1 lokaal, 3 extern)	
	Gelijktijdig afspelen	Max. 4 Kanalen (Lokaal, Netwerk)	Max. 8 Kanalen (Lokaal, Netwerk)
	Resolutie	CIF ~ 8MP	
	Afspelen bedieningselemente	Snel/Traag Vooruit/Achteruit, Eén stap omhoog/Eén stap omlaag	
Opslag	Ingebouwd	0TB ~ 6TB (afhankelijk van regio) - Seagate : ~ 4TB	
	Interne HDD	1 (Max.6TB)	

Item		Details	
		QRN-410	QRN-810
Back-up	Bestandsback-up	BU/Exe(USB), JPG/AVI(Web, CMS)	
	Functie	Afspelen op meerdere kanalen (tot 4 kanalen), weergave van Datum-Tijd/Titel	Afspelen op meerdere kanalen (tot 8 kanalen), weergave van Datum-Tijd/Titel
Sensor	I/O	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
Audio	Invoer	4kanalen (Netwerk)	8kanalen (Netwerk)
	Compressie	G.711, G.726, AAC(16/48KHz)	
	Audio-communicatie	2-wegs	
Netwerk			
Protocol		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Cliënt), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI (Server, Cliënt)	
DDNS		Hanwha Security DDNS	
Overdracht bandbreedte		64Mbps	128Mbps
Max. aantal externe gebruikers		Zoeken (3)/Live unicast (10)/Multicast (20)	
IP-versie		IPv4/v6	
Beveiliging		Gebruikerstoegang Logboek, IP-filtering, 802.1x, Encryptie	
Talen		Engels, Frans, Duits, Italiaans, Spaans, Russisch, Turks, Pools, Nederlands, Zweeds, Tsjechisch, Portugees, Deens, Roemeens, Servisch, Kroatisch, Hongaars, Grieks, Noors, Fins, Koreaans, Chinees, Japans, Thais	
OS		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11	
Webbrowser		Plug-in gratis webweergaveprogramma Ondersteunde browser: Google Chrome 47, MS Edge 20 Plug-in webweergaveprogramma Ondersteunde browser: MS Explore 11, Apple Safari 9 * Alleen Mac OS X	
Viewersoftware	Type	SSM, Webviewer, SmartViewer, wisenet Mobile	
	CMS-ondersteuning	SDK/CGI (SUNAPI)	

Item		Details	
		QRN-410	QRN-810
Functies			
Eenvoudige configuratie		Configuratiewizard (taal, datum/tijd, netwerk, automatische cameraconfiguratie) P2P (QR-code)	
Redundantie	ARB	Ja	
PTZ	Besturing	Via GUI, Webviewer, 300 voorinstellingen	
Smartphone	Ondersteuningsmodel	Android, iOS	
	Ondersteuning van protocollen	RTP, RTSP, HTTP, CGI (SUNAPI)	
	Bediening	Live (4 kanalen): Ondersteuning meerdere profielen Afspelen (1 kanaal) Voorval duwen	Live (8 kanalen): Ondersteuning meerdere profielen Afspelen (1 kanaal) Voorval duwen
Systeembesturing		Muis, Web, IR Remocon	
Indicator/Interface			
Voorzijde	Indicator	LED Status indicator 1EA Lan Status LED 1EA Opnemen Status LED 1EA	
Aansluitingen	VGA	1 EA	
	HDMI	1 EA - Ondersteuning van tot 4K (3840 x 2160), 30Hz	
Aansluitingen	Audio	Uit(1EA, RCA, Lijn)	
	Ethernet	1EA (WAN, 1Gbps) - WAN : Uplink to CMS	
	Alarm	In(4EA, met klemmen) Uit (2EA, met klemmen)	In(4EA, met klemmen) Uit (3EA, met klemmen)
	USB	Voorzijde 1EA(USB2.0), Achterzijde 1(USB3.0)	
	Opslag	-	
	Serieel	-	
	Reset	Schakelaar(1EA)	
	Netsnoer	Opgenomen	

Item		Details	
		QRN-410	QRN-810
Systeem			
Logboek	Loglijst	Max. 20000 (Systeemlogboek, Gebeurtenissenlogboek elk)	
Omgevingsfactoren			
Bedrijfstemperatuur / Luchtvochtigheid		+0°C to +40°C (+32°F to +104°F)	
Vochtigheid		20% ~ 85% RH	
Elektrisch			
Stroomingang		12V/4A	
Stroomverbruik		MAX. 9W(31BTU, 2TB HDD x 1ea)	
Mechanisch			
Kleur/materiaal		Zwart/metaal	
Afmetingen (B x H x D)		B300 x H47 x D208.7mm (11.81"X1.85"X8.22") (1U)	
Gewicht		1.655Kg (2T HDD)	

• QRN-410S/QRN-810S/QRN-1610S

Item		Details		
		QRN-410S	QRN-810S	QRN-1610S
Weergave				
Netwerkkamera	Ingangen	Max. 4 kanalen	Max. 8 kanalen	Max. 16 kanalen
	Resolutie	CIF ~ 8MP		
	Dewarping voor fish-eye	N.v.t. (verwerk op Web/CMS)		
	Protocollen	Wisenet, ONVIF, RTSP		
Live	Lokale weergave	1x HDMI		1x HDMI / 1x VGA
	Prestaties	[Lokaal scherm] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(120fps), 720p(120fps), D1(120fps)	[Lokaal scherm] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps)	[Lokaal scherm] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(480fps), D1(480fps)
Prestaties				
Besturingssysteem	Geïntegreerd	Linux		
Opnemen	Compressie	H.265, H.264, MJPEG		
	Bandbreedte voor opnemen	Max. 40Mbps	Max. 80Mbps	Max. 128Mbps
	Resolutie	CIF ~ 8MP		
Zoeken & Afspelen	Bandbreedte voor afspelen	32Mbps(4ch gelijktijdig)	32Mbps(8ch gelijktijdig)	
	Prestaties	Max. 3 gebruikers (1 lokaal, 3 extern)		
	Gelijktijdig afspelen	Max. 4 Kanalen (Lokaal, Netwerk)	Max. 8 Kanalen (Lokaal, Netwerk)	Max. 8 Kanalen (Lokaal), Max. 16 Kanalen (Netwerk)
	Resolutie	CIF ~ 8MP		
	Dewarping voor fish-eye	N.v.t. (verwerk op Web/CMS)		
	Afspelen bedieningselemente	Snel/Traag Vooruit/Achteruit, Eén stap omhoog/Eén stap omlaag		
Opslag	Ingebouwd	N.v.t.		
	Interne HDD	1 (Max.6TB)		2 (Max.12TB)

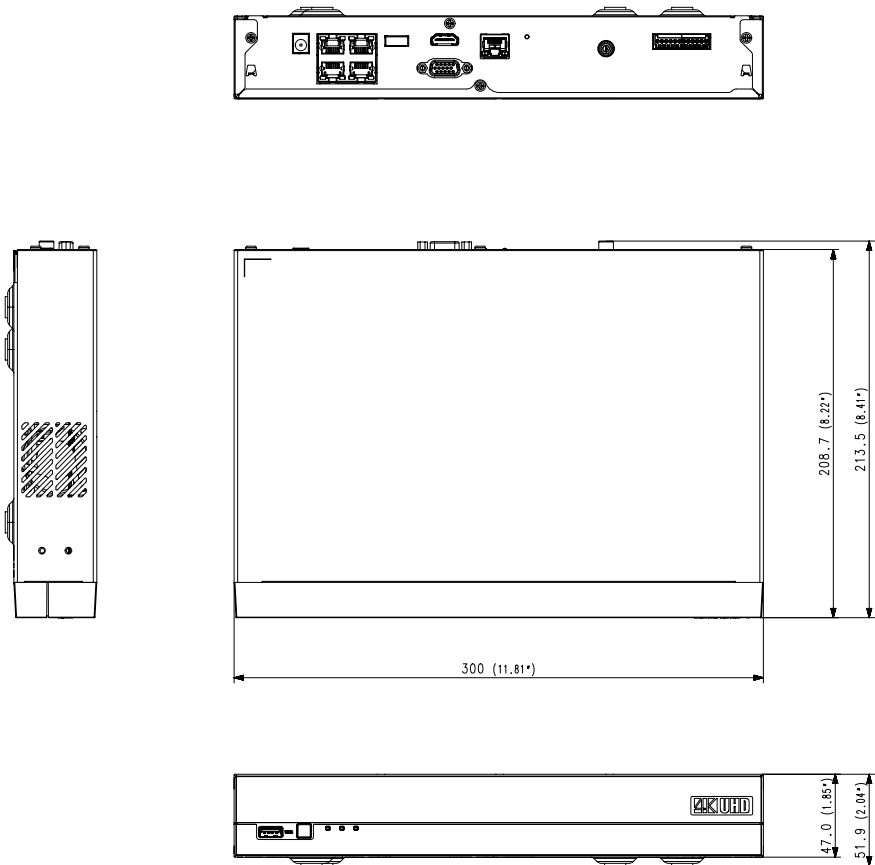
Item		Details		
		QRN-410S	QRN-810S	QRN-1610S
Back-up	Bestandsback-up	BU/Exe(USB), JPG/AVI(Web, CMS)		
	Functie	Afspelen op meerdere kanalen (tot 4 kanalen), weergave van Datum-Tijd/Titel	Afspelen op meerdere kanalen (tot 8 kanalen), weergave van Datum-Tijd/Titel	
Sensor	I/O	N.v.t.		4/2 (NO 1EA, NO/NC 1EA)
Audio	Invoer	4kanalen (Netwerk)	8kanalen (Netwerk)	16kanalen (Netwerk)
	Compressie	G.711, G.726, AAC(16/48KHz)		
	Audio-communicatie	2-wegs		
Netwerk				
Protocol		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Cliënt), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI (Server, Cliënt)		
DDNS		Hanwha Security DDNS		
Overdracht bandbreedte		50Mbps	80Mbps	128Mbps
Max. aantal externe gebruikers		Zoeken (3)/Live unicast (10)/Multicast (20)		
IP-versie		IPv4/v6		
Beveiliging		Gebruikerstoegang Logboek, IP-filtering, 802.1x, Encryptie		
OS		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11		
Webbrowser		Plug-in gratis webweergaveprogramma Ondersteunde browser: Google Chrome 47, MS Edge 20 Plug-in webweergaveprogramma Ondersteunde browser: MS Explore 11, Apple Safari 9 * Alleen Mac OS X		
Viewersoftware	Type	SSM, Webviewer, SmartViewer, wisenet Mobile		
	CMS-ondersteuning	SDK/CGI (SUNAPI)		
Functies				
Camerabediening	PoE	1) PoE-stroomverbruik beeldscherm 2) Aan/uit-regeling van elke PoE-camera 3) Reset op afstand van elke PoE-camera		

Item		Details		
		QRN-410S	QRN-810S	QRN-1610S
Eenvoudige configuratie		Configuratiewizard (taal, datum/tijd, netwerk, automatische cameraconfiguratie) P2P (QR-code)		
ARB		Ja		
PTZ	Besturing	Via GUI, Webviewer, 300 voorinstellingen		
Smartphone	Ondersteuningsmodel	Android, iOS		
	Ondersteuning van protocollen	RTP, RTSP, HTTP, CGI (SUNAPI)		
	Bediening	Live (4 kanalen): Ondersteuning meerdere profielen Afspelen (1 kanaal) Voorval duwen	Live (8 kanalen): Ondersteuning meerdere profielen Afspelen (1 kanaal) Voorval duwen	Live (16 kanalen): Ondersteuning meerdere profielen Afspelen (1 kanaal) Voorval duwen
	Max. aantal externe gebruikers	Zoeken(3) / Live unicast(10) / Multicast (20)		
Systeembesturing		Muis, Web	Muis, Web, IR-afstandsbediening	
Indicator/Interface				
Voorzijde	Indicator	LED (statusindicator) : 3ea Stroomverbruik Status indicator 1EA Lan Status LED 1EA Opnemen Status LED 1EA		LED (statusindicator) : 6ea Stroomverbruik Status indicator 1EA HDD-actie LED 1EA Alarm Status LED 1EA Opnemen Status LED 1EA Netwerk-actie LED 1EA Back-up LED 1EA
Aansluitingen	VGA	N.v.t.		1EA(1920x1080, 1280x1024, 1280x720, 1024x768)
	HDMI	1EA (3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720, 1024x768)		
	Audio	N.v.t.		Uit(1EA, RCA)
	Ethernet	■ 4EA (PoE, 100Mbps) ■ 1EA (WAN, 100Mbps) - WAN : Uplink to CMS	■ 8EA (PoE, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink to CMS	■ 16EA (PoE, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink to CMS

Item		Details		
		QRN-410S	QRN-810S	QRN-1610S
Aansluitingen	Alarm	N.v.t.		In(4EA, Terminal Block) Out(2EA, Terminal Block)
	USB	Voorzijde 1EA(USB2.0), Achterzijde 1EA(USB3.0)		Voorzijde 2EA(USB2.0), Achterzijde 1EA(USB3.0)
	Reset	Schakelaar(1EA)		
	Netsnoer	Opgenomen		
Systeem				
Logboek	Loglijst	Max. 20000 (Systeemlogboek, Gebeurtenissenlogboek elk)		
Omgevingsfactoren				
Bedrijfstemperatuur / Luchtvochtigheid		+0°C to +40°C (+32°F to +104°F)		
Vochtigheid		20% ~ 85% RH		
Elektrisch				
Stroomingang		54V DC / 1.20A	54V DC / 1.67A	100 to 240 VAC
Stroomverbruik		Max. 47W(1HDD, PoE on) Max. 7.4W(1HDD, PoE off)	Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off)	Max. 158.2W(2HDDs, PoE on) Max. 34.6W(2HDDs, PoE off)
PoE-budget		Max. 30W	Max. 50W	Max. 130W
Mechanisch				
Kleur/materiaal		Zwart/metaal		
Afmetingen (B x H x D)		B300.0 x H47.1 x D208.4 mm(1U)		B370.0 x H44.0 x D320 mm(1U)
Gewicht		0.99Kg	1.01Kg	2.79Kg

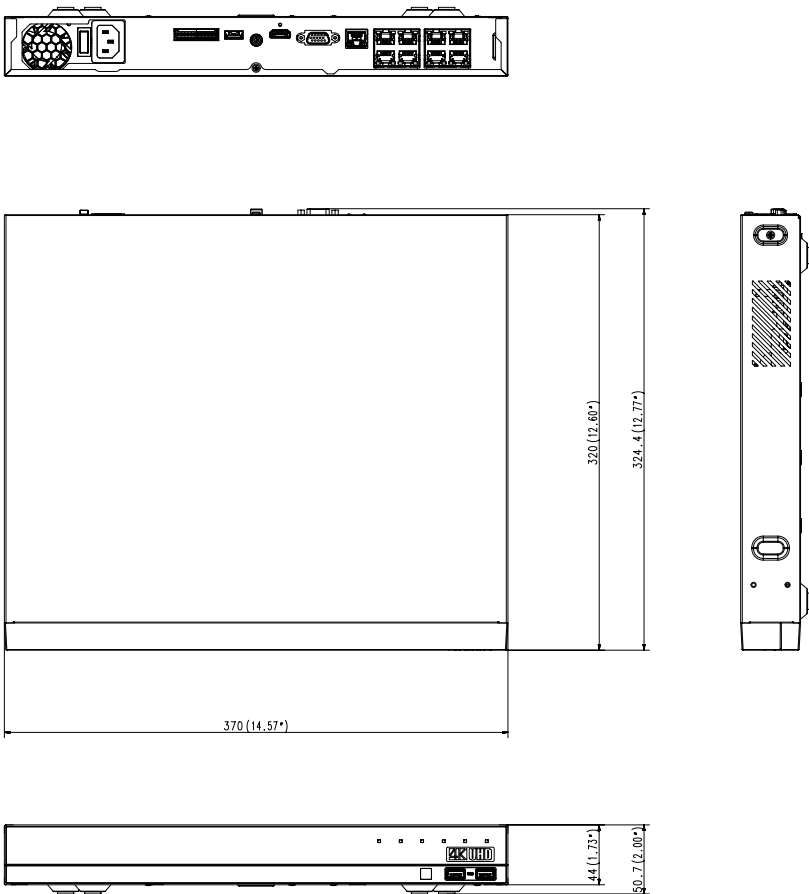
• XRN-410S

unit : mm (inches)



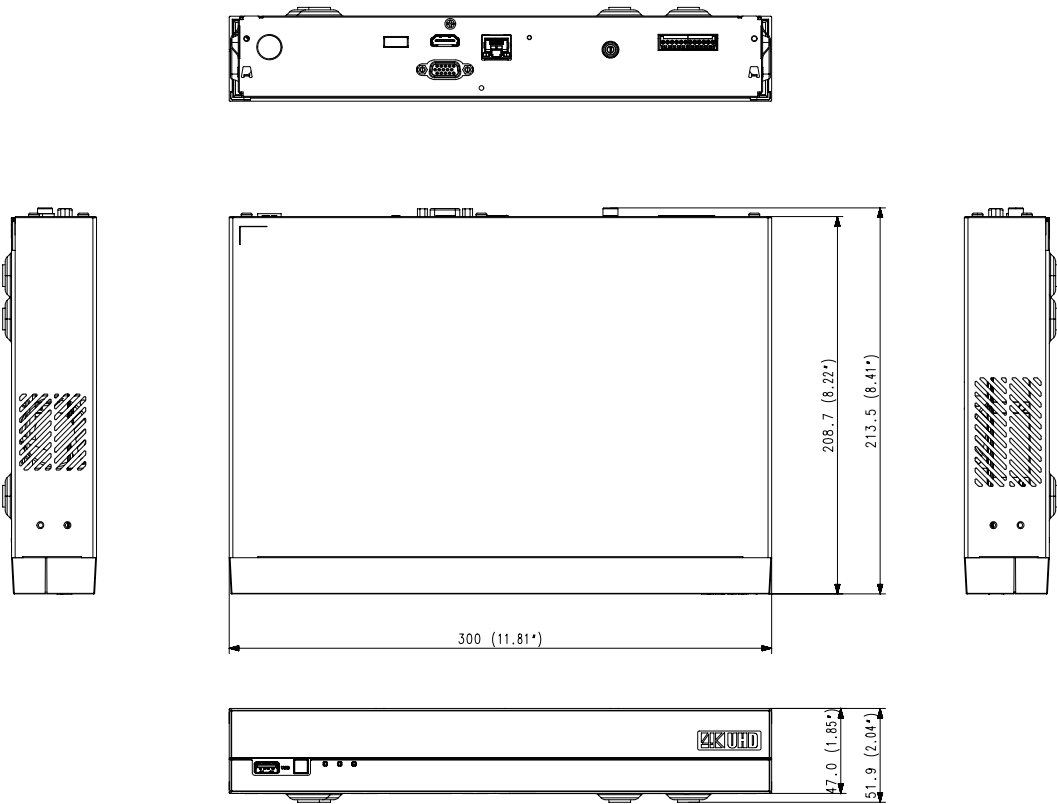
• XRN-810S

unit : mm (inches)



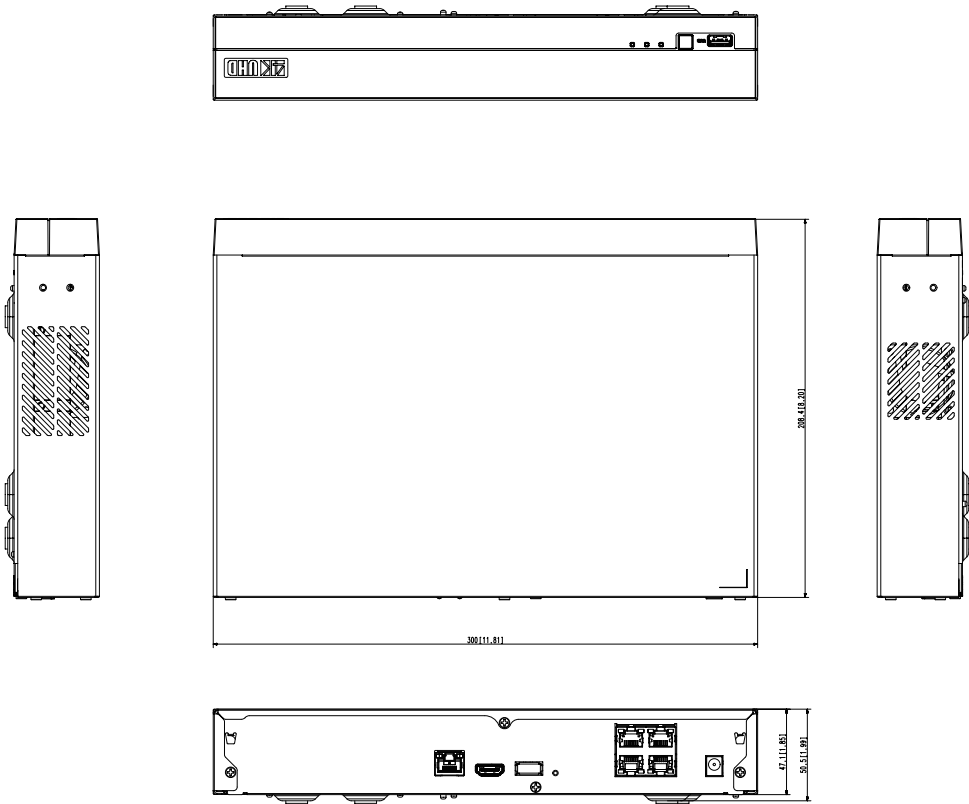
• QRN-410/QRN-810

unit : mm (inches)



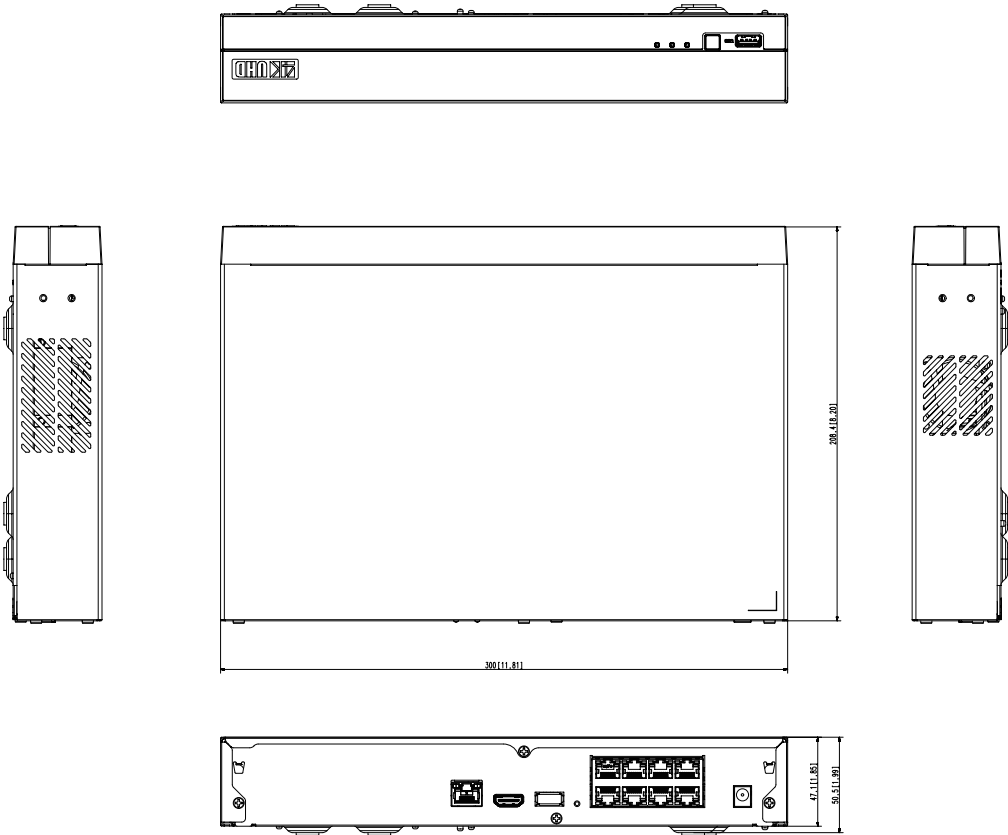
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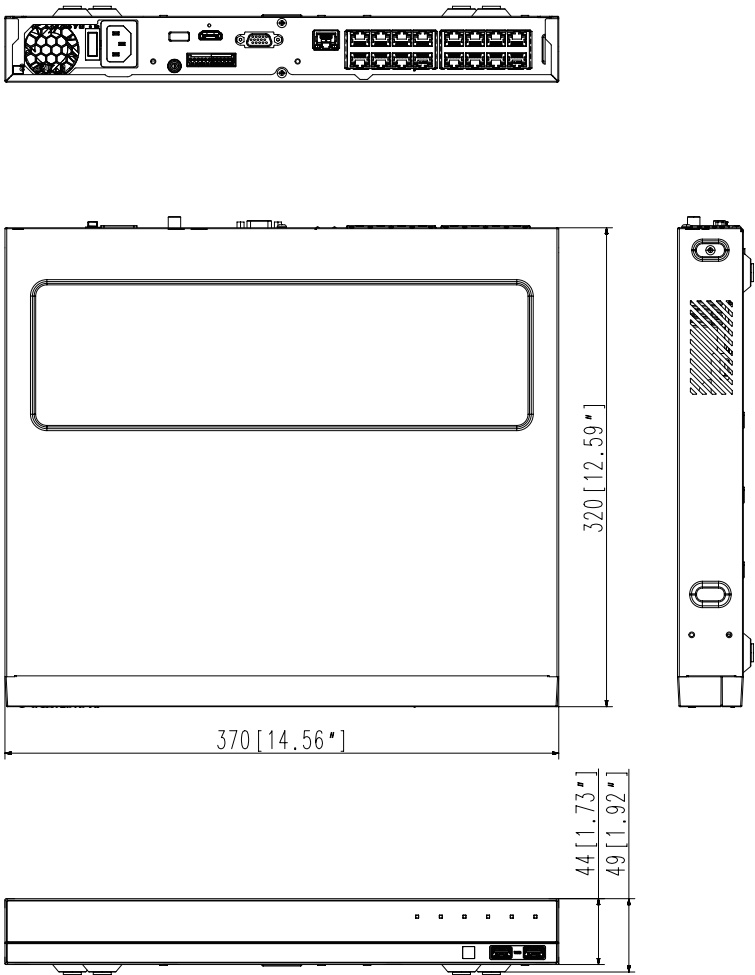
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unit : mm (inches)



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unit : mm (inches)



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Version 1.1

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- [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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- [30]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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- [32]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWW/H, IRIG
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- [42]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
- [43]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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- [46]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
- [47]Harlan Stern <harlan@pfcs.com> GNU automake/ autoconfigure makeover, various other bits (see the ChangeLog)
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