

WiSeNet

SIECIOWA NAGRYWARKA WIDEO

Podręcznik specyfikacji produktu

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



Sieciowa Nagrywarka Wideo

Podręcznik specyfikacji produktu

Prawa autorskie

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Znaki towarowe

Wszystkie znaki handlowe wymienione w niniejszym dokumencie są zastrzeżone. Nazwa niniejszego produktu i inne znaki handlowe wymienione w niniejszym podręczniku są zastrzeżonymi znakami handlowymi odpowiednich właścicieli.

Ograniczenia

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- ❖ Konstrukcja i dane techniczne urządzenia mogą ulec zmianie bez powiadomienia.
Użytkownik może pobrać najnowszą wersję ze strony internetowej Hanwha Techwin. (www.hanwha-security.com)

- ❖ Początkowym ID administratora jest „admin” a hasło powinno zostać ustawione podczas pierwszego logowania.
Hasło należy zmieniać co trzy miesiące, aby zapewnić ochronę danych osobowych i zapobiec szkodom wynikającym z kradzieży informacji.
Proszę pamiętać, że odpowiedzialność za bezpieczeństwo i wszelkie szkody wynikające z brakiem dbałości o hasło ponosi użytkownik.

WAŻNE ZALECENIA DOTYCZĄCE BEZPIECZEŃSTWA

Przed rozpoczęciem eksploatacji urządzenia należy uważnie przeczytać niniejsze instrukcje dotyczące obsługi. Należy przestrzegać poniższych instrukcji bezpieczeństwa.

Niniejszą instrukcję obsługi należy zachować do użycia w przyszłości.

- 1) Przeczytać tę instrukcję.
- 2) Zachować instrukcję.
- 3) Zwrócić uwagę na wszystkie ostrzeżenia.
- 4) Przestrzegać wszystkich instrukcji.
- 5) Nie używać urządzenia w pobliżu wody.
- 6) Zabrudzoną powierzchnię produktu wyczyścić miękką, suchą szmatką lub wilgotną szmatką. (Nie używaj żadnych detergentów ani produktów kosmetycznych zawierających alkohol, rozpuszczalniki, surfaktanty lub substancje oleiste, ponieważ mogą one spowodować odkształcenie lub uszkodzenie produktu).
- 7) Nie zasłaniać otworów wentylacyjnych; zamontować zgodnie z instrukcjami producenta.
- 8) Nie montować w pobliżu źródeł ciepła, takich jak grzejniki, promienniki, piece lub inne urządzenia (również wzmacniacze) wytwarzające ciepło.
- 9) W żadnym wypadku nie próbować obchodzić zabezpieczeń konstrukcyjnych wtyczki i gniazda z bolcem uziemiającym. Wtyczka ma dwa bolce i otwór na bolec uziemiający. Bolec uziemiający chroni przed porażeniem prądem elektrycznym. W celu zapewnienia bezpieczeństwa urządzenie wyposażono we wtyczkę ze stykiem uziemiającym. Jeśli wtyczka dołączona do urządzenia nie pasuje do gniazdka, należy zwrócić się do elektryka celem wymiany przestarzałego gniazdka ściennego.
- 10) Zabezpieczyć przewód sieciowy, tak aby nie być przydeptywany ani ściskany; szczególną uwagę należy zwrócić na wtyczki, rozgałęźniki i miejsce, w których przewód wychodzi z urządzenia.
- 11) Używać wyłącznie elementów wyposażenia/akcesoriów zalecanych przez producenta.
- 12) Urządzenie umieszczać tylko na wózku, stojaku, trójnogu, półce lub stole zalecanym przez producenta lub sprzedawanym razem z urządzeniem. W przypadku użycia wózka podczas przemieszczania zestawu wózek/urządzenie należy zachować ostrożność, aby uniknąć obrażeń spowodowanych jego wywróceniem.
- 13) W czasie burzy z wyładowaniami atmosferycznymi lub w przypadku nieużywania urządzenia przez dłuższy czas należy odłączyć urządzenie od zasilania.
- 14) Wszelkie czynności serwisowe należy powierzyć wykwalifikowanym pracownikom serwisu.
W przypadku uszkodzenia urządzenia w jakikolwiek sposób, np. w razie uszkodzenia przewodu zasilającego lub wtyczki, rozlania płynu lub upadku przedmiotów na urządzenie, wystawiania urządzenia na działanie deszczu lub wilgoci, nieprawidłowości w działaniu lub upadku urządzenia, należy oddać urządzenie do serwisu.



PRZED ROZPOCZĘCIEM

Niniejszy podręcznik zapewnia informacje o obsłudze wymagane przy użytkowaniu urządzenia i zawiera opis każdego elementu składowego, jego funkcji oraz menu lub ustawień sieciowych.

Należy pamiętać o następujących uwagach :

- Prawa autorskie do niniejszego podręcznika należą do firmy Hanwha Techwin.
- Nie można kopiować niniejszego podręcznika bez wcześniejszej pisemnej zgody firmy Hanwha Techwin.
- Nie ponosimy odpowiedzialności za żadne uszkodzenia produktu spowodowane użyciem niestandardowych produktów lub naruszeniem instrukcji zawartych w niniejszym podręczniku.
- Jeśli konieczne jest otwarcie obudowy systemu w celu sprawdzenia źródła problemu, należy skonsultować się ze specjalistą ze sklepu, w którym nabyto produkt.
- Przed dodaniem napędu dysków twardych lub zewnętrznego urządzenia pamięci masowej (pamięci USB, twardego dysku USB) należy sprawdzić, czy są zgodne z tym urządzeniem. Aby uzyskać listę kompatybilności, skontaktuj się z punktem sprzedaży.

Ostrzeżenie

Akumulator

Wymiana akumulatora w produkcie na niewłaściwy może doprowadzić do eksplozji. Z tego względu należy użyć tego samego typu akumulatora, co używany w produkcie.

Poniżej znajduje się specyfikacja akumulatora używanego obecnie.

- Napięcie normalne : 3V
- Pojemność normalna : 210m Ah
- Standardowe obciążenie ciągłe : 0,4 mA
- Temperatura pracy : -20°C ~ +60°C (-4°F ~ +140°F)

Uwaga

- Podłącz przewód zasilający do uziemionego gniazdka elektrycznego.
- Wtyczka sieci zasilającej stosowana jest jako urządzenie rozłączające, dlatego powinna być łatwo dostępna przez cały czas.
- Baterii nie należy wystawiać na działanie zbyt wysokiej temperatury, np. promienie słoneczne, ogień itp.
- Zagrożenie wybuchem w przypadku użycia baterii nieprawidłowego typu. Zużyte baterie należy poddawać utylizacji zgodnie z instrukcjami.
- W przypadku upływu okresu eksploatacji dysku twardego zapisane na nim dane wideo mogą zostać uszkodzone, a ich odzyskanie może okazać się niemożliwe.
- Dioda LED stanu dysku twardego systemu ciągle miga, co oznacza, że połączenie systemu z dyskiem twardym funkcjonuje normalnie. Regularnie sprawdzaj diodę LED stanu dysku twardego, aby upewnić się, że ciągle miga. "W przypadku awarii dysku twardego nagrywanie może okazać się niemożliwe. Regularnie sprawdzaj stan nagrywania i twórz kopie zapasowe ważnych danych."

Wyłączenie systemu

Wyłączenie zasilania w czasie pracy produktu lub wykonanie niedozwolonych czynności, może doprowadzić do uszkodzenia dysku twardego lub produktu. Może to również spowodować nieprawidłowe działanie twardego dysku przy korzystaniu z tego produktu.

Aby zapewnić bezpieczeństwo podczas procesu wyłączenia systemu, naciśnij przycisk <OK> znajdujący się w wyskakującym okienku wyłączania systemu, a następnie odłącz przewód zasilania.

Użytkownik może zainstalować system UPS w celu zapewnienia bezpiecznej pracy i uniknięcia strat spowodowanych przez nieoczekiwaną awarię zasilania. (Aby uzyskać odpowiedzi na pytania dotyczące systemu UPS, należy skontaktować się ze sprzedawcą.)



- W przypadku nieprawidłowego wyłączenia ponowne uruchomienie może zająć więcej czasu z powodu przywracania danych z twardego dysku w celu poprawnego działania.

Temperatura pracy

Gwarantowana temperatura pracy niniejszego produktu zawiera się w przedziale od 0°C ~ 40°C (32°F ~ 104°F). Niniejszy produkt może nie działać prawidłowo, jeśli zostanie uruchomiony po długim okresie braku zasilania w temperaturze poniżej gwarantowanej.
W przypadku użycia urządzenia po długim okresie przechowywania w niskiej temperaturze należy umieścić je przez pewien czas w temperaturze pokojowej, a następnie go uruchomić.
W szczególności dla wbudowanego w produkcie dysku twardego gwarantowana temperatura zawiera się w zakresie od 5°C ~ 55°C (41°F ~ 131°F). Dysk twardy może nie działać w temperaturze poniżej gwarantowanej.

Gniazdo Ethernet

Ten sprzęt jest przeznaczony do użytku wewnątrz budynków i całe okablowanie komunikacyjne ogranicza się do wnętrza budynku.

Środki ostrożności dotyczące bezpieczeństwa

Początkowym ID administratora jest „admin” a hasło powinno zostać ustawione podczas pierwszego logowania.
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Produkty NVR posiadające poszczególne funkcje

Funkcja	Produkty
Wentylator	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
Pilot	QRN-1610S, XRN-810S, QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S Modele QRN-410/QRN-410S i XRN-410S mogą nie obsługiwać zdalnego sterowania zależnie od regionu.

SPIS TREŚCI

INFORMACJE OGÓLNE	3	Ważne Zalecenia Dotyczące Bezpieczeństwa
	3	Przed Rozpoczęciem
	5	Spis Treści
	6	Funkcje
	7	Nazwy części i ich funkcje (Przód)
	8	Nazwy części i ich funkcje (Tył)

INSTALACJA	10	Sprawdzanie stanowiska montażowego
	10	Montaż w regale
	10	Dodawanie Dysku Twardego

PODŁĄCZANIE INNEGO URZĄDZENIA	12	Podłączanie do urządzenia zewnętrznego
	12	Podłączanie urządzenia USB
	12	Podłączanie Wejścia/Wyjścia Alarmu
	13	Podłączanie do sieci

DANE TECHNICZNE PRODUKTU	14	Dane techniczne produktu
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WIDOK URZĄDZENIA	20	Widok urządzenia
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FUNKCJE

Niniejsze urządzenie służy do rejestracji danych wideo i audio z kamer sieciowych na twardy dysk i umożliwia odtwarzanie z twardego dysku. Zapewnia również środowisko zdalnego monitorowania wideo i audio w sieci za pomocą zdalnego komputera.

- Przyjazny użytkownikowi interfejs
- Obsługuje szeroką gamę rozdzielczości 4K
- Wyświetla obraz w wysokiej rozdzielczości 4K za pośrednictwem portu HDMI
- Nagrywanie i odtwarzanie obrazu wideo
- Nagrywanie i odtwarzanie dźwięku
- Obsługuje standard ONVIF Profile S oraz protokoły RTP / RTSP
- Wyświetlanie stanu działania dysku dzięki technologii HDD SMART
- Możliwość nadpisywania danych na dysku twardym
- Tworzenie kopii zapasowych za pomocą protokołów USB 2.0, 3.0 i zewnętrznego dysku twardego
- Jednoczesne odtwarzanie 4, 8 kanałów
- Różne tryby wyszukiwania (Czas, zdarzenie, Smart, Ttekst, kopia zapasowa, ARB)
- Obsługa ARB (funkcja konfiguracji dla okresu zapisu poprzez kanał)
- Różne tryby nagrywania (normalny, zdarzenie, nagrywanie zaprogramowane)
- Wejście/wyjście alarmu
- Funkcja zdalnego monitorowania przy użyciu przeglądarki Windows Network Viewer
- Monitorowanie na żywo przy użyciu kamery sieciowej
- Kreator instalacji (Ustawienia ułatwione, Skrócone ustawienia)
- Obsługuje funkcję zdalnego monitorowania smartfona przez obsługę P2P
- Dostarcza alarm o zdarzeniu do smartfona (wysyłanie komunikatów o zdarzeniu w czasie rzeczywistym)

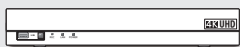
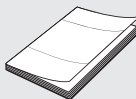
Zawartość zestawu

Produkt należy rozpakować i umieścić na płaskiej powierzchni lub w miejscu, w którym ma zostać zainstalowany.

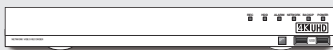
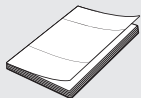
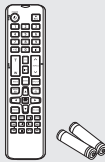
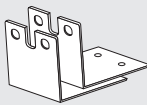
Należy sprawdzić, czy w zestawie oprócz urządzenia głównego znajdują się poniższe elementy.

- Kategoria i ilość akcesoriów może różnić się w zależności od regionu sprzedaży.

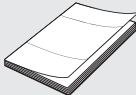
XRN-410S/QRN-410/QRN-410S

		
NVR	Mysz	Przewód Zasilający
		
Zasilacz	Skrócona instrukcja obsługi	Blok zasilku (Niedostępny w modelu QRN-410S)
		
Śruba mocująca dysk twardy (W przypadku modeli bez zainstalowanego dysku twardego)	Przewód zasilający SATA (W przypadku modeli bez zainstalowanego dysku twardego)	

XRN-810S/QRN-1610S

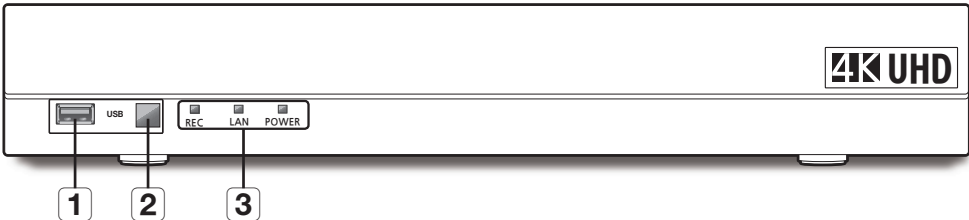
		
NVR	Mysz	Przewód Zasilający
		
Skrócona instrukcja obsługi	Blok zasilku	Pilot / Bateria Do Pilota (AAA)
		
Szyna	Śruba do mocowania wspornika	

QRN-810/QRN-810S

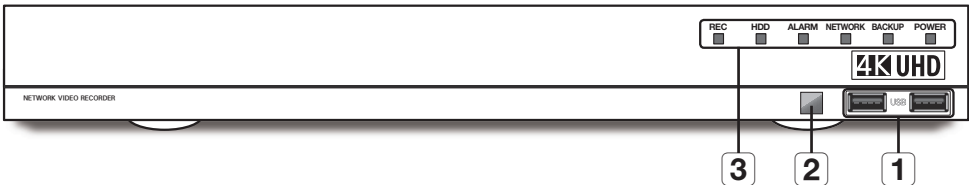
		
NVR	Mysz	Przewód Zasilający
		
Zasilacz	Skrócona instrukcja obsługi	Blok zacisku (Niedostępny w modelu QRN-810S)
		
Pilot / Bateria Do Pilota (AAA)	Śruba mocująca dysk twardy (W przypadku modeli bez zainstalowanego dysku twardego)	Przewód zasilający SATA (W przypadku modeli bez zainstalowanego dysku twardego)

NAZWY CZĘŚCI I ICH FUNKCJE (PRZÓD)

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



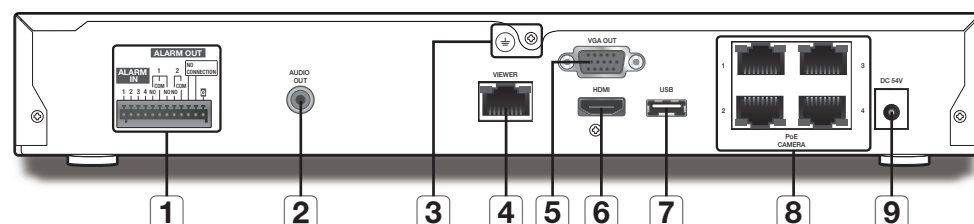
XRN-810S/QRN-1610S



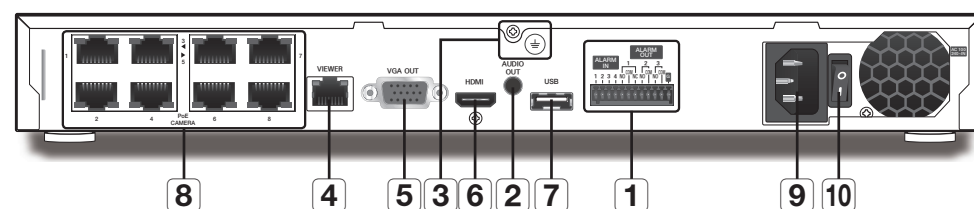
Nazwa		Funkcja
1	USB	Służy do podłączania urządzeń USB. (Obsługa technologii USB 2.0)
2	Odbiornik sygnałów zdalnego sterowania	Odbiera sygnały z pilota.
3	Wskaźnik LED	REC : Zapala się w trakcie nagrywania.
		HDD : Wyświetla normalną ścieżkę dostępu do twardego dysku. Dioda włączy się po uzyskaniu dostępu do dysku twardego. (XRN-810S/QRN-1610S)
		ALARM : Zapala się, gdy następuje zdarzenie. (XRN-810S/QRN-1610S)
		NETWORK (LAN) : Wyświetla stan łącza sieciowego oraz przesyłu danych.
		BACKUP : Pozostaje WŁĄCZONY, gdy używana jest kopia zapasowa. (XRN-810S/QRN-1610S)
		POWER : Pokazuje stan zasilania Wł./Wył.

NAZWY CZĘŚCI I ICH FUNKCJE (TYŁ)

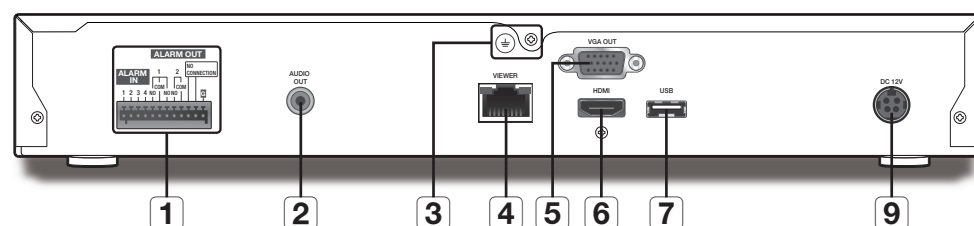
XRN-410S



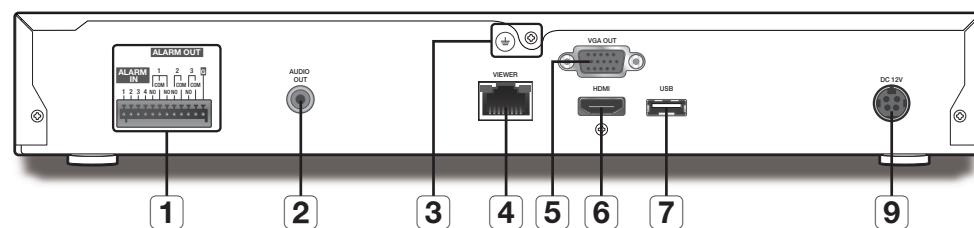
XRN-810S



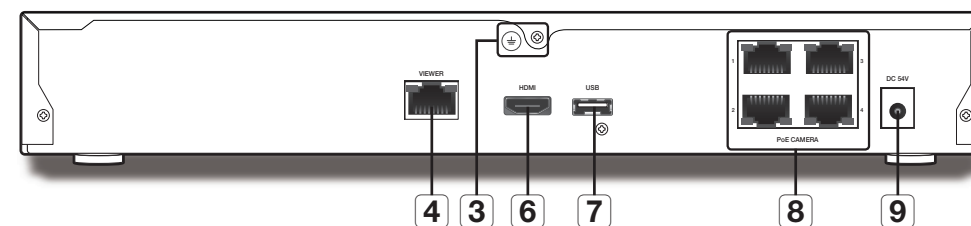
QRN-410



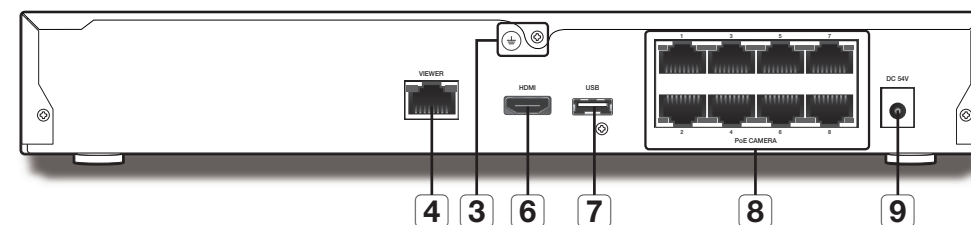
QRN-810



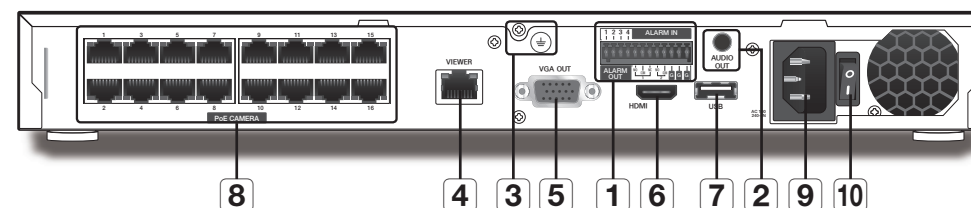
QRN-410S



QRN-810S



QRN-1610S



	Nazwa	Funkcja
1	ALARM	- ALARM IN : Wejścia alarmu. (1~4 CH) - ALARM OUT : Wyjścia alarmu. XRN-410S/QRN-410/QRN-1610S : 1~2 CH XRN-810S/QRN-810 : 1~3 CH
2	AUDIO OUT	Wyjście sygnału audio (gniazdo RCA).
3	Podłączenie uziemienia	Zacisk do podłączenia osobnego przewodu uziemiającego. ■ Dodatkowy przewód uziemiający zapewni większe bezpieczeństwo eksploatacji urządzenia.
4	VIEWER	Port zalecany do nawiązania połączenia z siecią, przeglądarką Web Viewer.
5	VGA OUT	Wyjście sygnału wideo VGA.
6	HDMI	Złącze HDMI.
7	USB	Służy do podłączania urządzeń USB. (Obsługa technologii USB 3.0)
8	PoE (CAMERA)	Port zasilania podłączane do kamery.
9	Zasilanie	Zacisk zasilania.
10	Włącznik zasilania	Przełącznik Wł./Wył. zasilania.

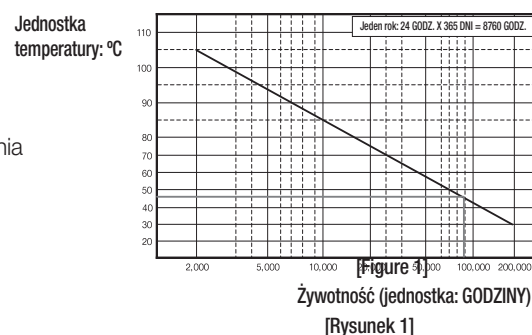
Przed użyciem produktu należy zapoznać się z poniższymi informacjami.

- Produktu nie należy używać na zewnątrz.
- Nie wolno rozlewać wody lub innych płynów na część łączącą produktu.
- Nie należy narażać systemu na działanie nadmiernej siły lub wstrząsów.
- Nie należy na siłę wyciągać wtyczki zasilania.
- Produktu nie wolno samodzielnie rozmontowywać.
- Nie przekraczać znamionowych wartości wejścia/wyjścia.
- Należy stosować wyłącznie atestowane przewody zasilające.
- W przypadku produktów z wejściem uziemiającym należy stosować wtyczkę zasilania z uziemieniem.

SPRAWDZANIE STANOWISKA MONTAŻOWEGO

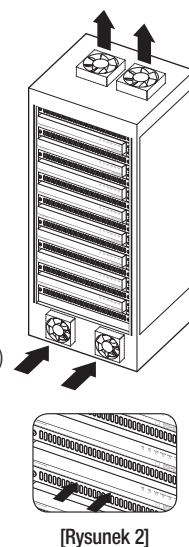
Niniejsze urządzenie jest wysokiej klasy urządzeniem wyposażonym w dysk twardy o dużej pojemności i inne kluczowe układy elektroniczne.

Należy pamiętać, że zbyt wysoka temperatura wewnętrzna urządzenia może doprowadzić do awarii systemu lub skrócenia żywotności produktu (patrz rys. z prawej strony). Przed zainstalowaniem produktu należy zapoznać się z poniższymi instrukcjami.



W przypadku montowania urządzenia w szafie należy przestrzegać następujących instrukcji.

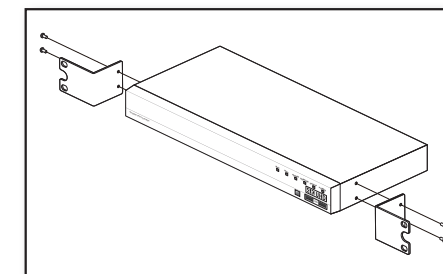
1. Należy upewnić się, że regał nie jest uszczelniony wewnątrz.
2. Należy zapewnić cyrkulację powietrza przez wlot i wylot zgodnie z ilustracją.
3. W przypadku ustawienia tych urządzeń lub innych urządzeń montowanych w szafie w sposób pokazany na rysunku 2 należy zapewnić przestrzeń na wentylację lub zainstalować wentylator.
4. Aby zapewnić naturalną konwekcję powietrza wlot należy umieścić u dołu regału, a wylot u góry.
5. Zaleca się, aby przy wlocie i wylocie zamontować wentylatory, zapewniające odpowiednią cyrkulację powietrza. (W celu zabezpieczenia przed pyłem lub ciałami obcymi przy wlocie należy zamontować filtr).
6. Wewnątrz regału i w jego otoczeniu należy utrzymywać temperaturę 0°C - 40°C (32°F - 104°F) zgodnie z rysunkiem 1.



MONTAŻ W REGALE

Zainstaluj szynę zgodnie z ilustracją, następnie wkręć śruby po obydwu stronach.

- Wkręć śruby tak, aby nie zostały poluzowane na skutek wibracji.



<XRN-810S/QRN-1610S>

DODAWANIE DYSKU TWARDEGO

Należy upewnić się, że przewód zasilania jest odłączony od gniazda sieciowego, aby zapobiec porażeniu prądem, odniesieniu obrażeń lub uszkodzeniu produktu.

Aby uzyskać dalsze informacje na temat instalacji twardego dysku, należy skonsultować się z dostawcą, ponieważ nieprawidłowa instalacja lub ustawienia mogą uszkodzić produkt.

- Liczba obsługiwanych dysków twardych: XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S : Max. 1
XRN-810S/QRN-1610S : Max. 2
- Przed przystąpieniem do instalacji należy upewnić się, że przewód zasilania jest odłączony od gniazda sieciowego.



■ Przestrogi dotyczące utraty danych (konserwacja dysku twardego)

Należy dbać o to, by nie uszkodzić danych zawartych na twardym dysku. Przed dodaniem dysku twardego należy sprawdzić zgodność z tym urządzeniem. Jako bardzo delikatne urządzenie dysk twardy jest narażony na usterki, szczególnie na skutek wibracji podczas pracy. Należy zadbać o to, by dysk twardy nie był narażony na wstrząsy. Firma Hanwha Techwin nie ponosi odpowiedzialności za uszkodzenia twardego dysku powstałe z powodu nieuwagi użytkownika lub nieprawidłowego użytkowania.

■ W niektórych przypadkach może nastąpić uszkodzenie dysku twardego lub zarejestrowanych danych

Aby zminimalizować ryzyko utraty danych z powodu uszkodzenia twardego dysku należy jak najczęściej tworzyć kopie zapasowe danych. W przypadku uderzenia podczas demontażu lub montażu dane zapisane na dysku twardym mogą zostać uszkodzone. Uszkodzenie może spowodować również nagła awaria zasilania lub wyłączenie urządzenia podczas działania dysku twardego. Dysk twardy lub pliki na nim zapisane mogą zostać uszkodzone, jeśli korpus główny zostanie poruszony lub uderzony w trakcie pracy.

Przestroga dotycząca instalacji dysku twardego

1. Nie nadużywać nadmiernej siły podczas pracy z dyskami.
2. Należy uważać, aby nie zgubić zdemontowanych wkrętów i akcesoriów.
 - Jeśli wkręty lub akcesoria nie zostaną zamontowane poprawnie, produkt może ulec uszkodzeniu lub działać nieprawidłowo.
3. Przed dodaniem dysku twardego należy sprawdzić jego zgodność z urządzeniem.
 - Aby uzyskać listę zgodnych urządzeń, należy skontaktować się z najbliższym sprzedawcą.

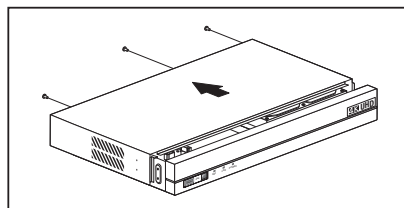
Montaż dysku twardego

- ❗ ▪ Jeśli dodajesz nowy lub wcześniej używany dysk twardy do tego produktu poza dyskami twardymi zainstalowanymi oryginalnie, przed użyciem sformatuj nowy dysk twardy ręcznie.
Aby dowiedzieć się, jak formatować, zobacz "Urządzenie / Format" w Podręczniku Użytkownika Wisenet NVR.

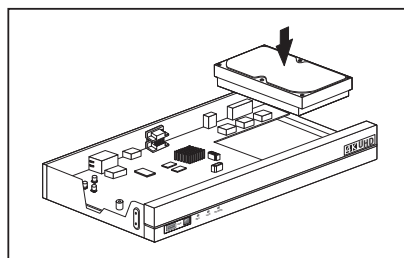
Montaż dysku twardego w modelu XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S

- ✍ ▪ Poniższe rysunki przedstawiają model XRN-410S.

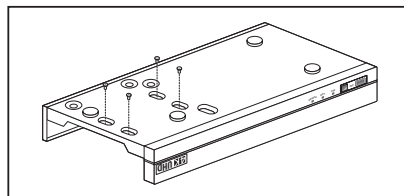
1. Po odkręceniu wkrętów popchnij pokrywę do tyłu, a następnie zdejmij ją.



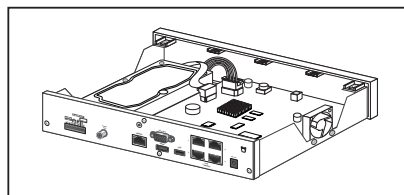
2. Przewody SATA i zasilania dysku twardego podłącz do złączy na płycie głównej.



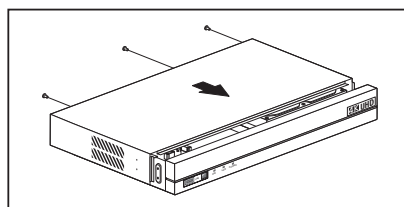
3. Przykręć dysk twardy do zestawu wkrętami.



4. Upewnij się, że nie występują żadne problemy z zaciskami, połączeniami i przewodami w produkcie, zamknij pokrywę i przykręć ją wkrętami.



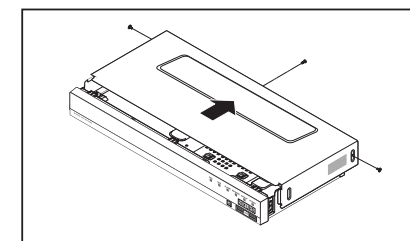
5. Zamknij pokrywę i przykręć śrubę nastawną z tyłu.



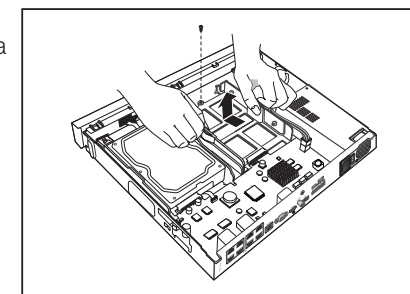
Montaż dysku twardego w modelu XRN-810S/QRN-1610S

- ✍ ▪ Poniższe rysunki przedstawiają model XRN-810S.

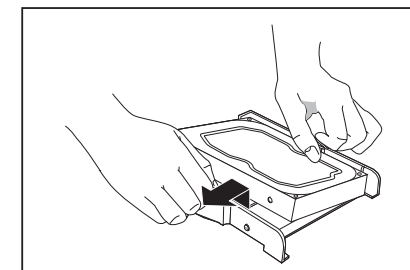
1. Po odkręceniu wkrętów popchnij pokrywę do tyłu, a następnie zdejmij ją.



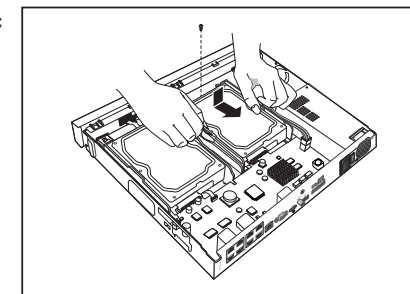
2. Rozłącz elementy, odkręcając śrubę zamontowanego uchwyty, a następnie dociśnij w kierunku wskazywanym przez strzałkę na płycie głównej.



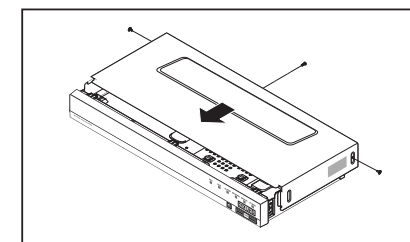
3. Po wyrównaniu i umieszczeniu jednej strony dysku twardego w uchwycie otwórz szeroko uchwyt z drugiej strony i dokładnie umieść w nim dysk twardy.
▪ Wyrównaj otwór w uchwycie z otworem na śrubę w dysku twardym.



4. Popchnij uchwyt z zamontowanym dyskiem twardym i przykręć śruby w celu jego zamocowania.

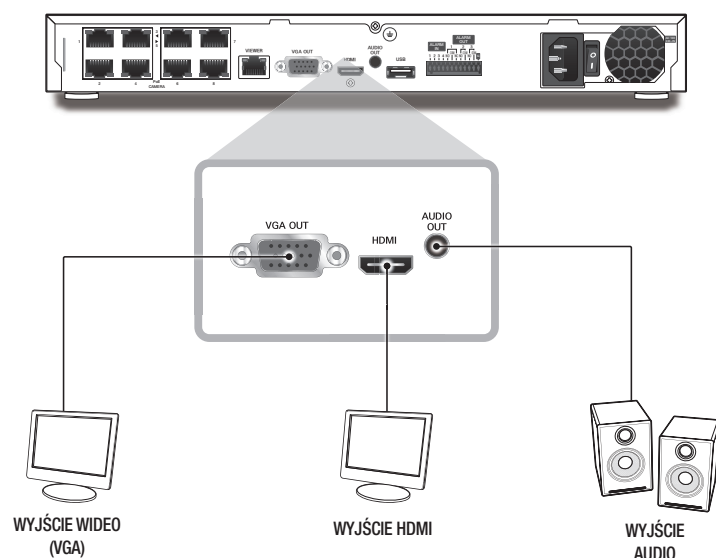


5. Zamknij pokrywę i przykręć wkręty w celu jej zamocowania.



PODŁĄCZANIE DO URZĄDZENIA ZEWNĘTRZNEGO

- Poniższe rysunki przedstawiają model XRN-810S.



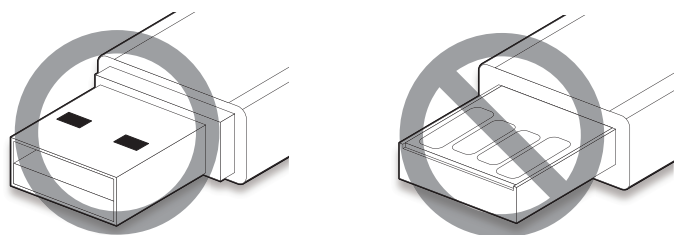
- Nieprawidłowe lub inne niż znamionowe źródło zasilania może uszkodzić system. Przed naciśnięciem przycisku zasilanie należy upewnić się, że stosowane jest wyłącznie źródło zasilania zgodne ze znamionowym.

PODŁĄCZANIE URZĄDZENIA USB

- Na przodzie urządzenia znajduje się port USB.
- Do portu USB można podłączyć dysk twardy USB, pamięć USB lub mysz.
- Jeśli dysk twardy USB jest podłączony do systemu, można go znaleźć i skonfigurować, wykonując czynności w "Menu > Urządzenie > Urządz.pam.mas." Instrukcji Użytkownika Wisenet NVR.
- Urządzenie obsługuje funkcję podłączania „na gorąco”, która umożliwia podłączanie/odłączanie urządzeń USB w trakcie działania systemu.

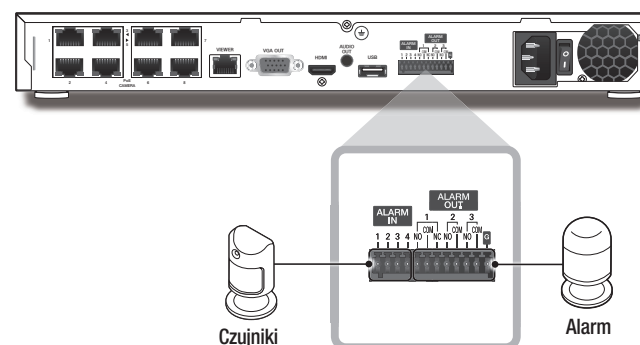


- Jeżeli urządzenie USB służy do tworzenia kopii zapasowych, należy je sformatować na komputerze przy użyciu aplikacji FAT32, jeżeli nie zostało sformatowane na urządzeniu NVR.
- Niektóre urządzenia USB mogą nie działać poprawnie z powodu problemów ze zgodnością, przed użyciem należy to sprawdzić.
- Tylko urządzenia pamięci USB zgodne ze standardami (mające metalową pokrywę) gwarantują przesyłanie danych.
- W przypadku zużycia styków elektrycznych urządzenia USB przesyłanie danych pomiędzy urządzeniami może nie działać poprawnie.

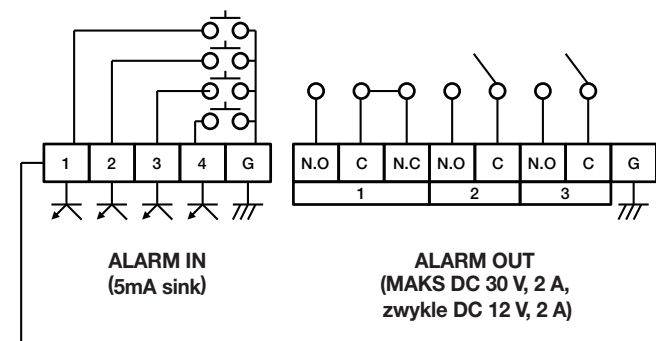


PODŁĄCZANIE WEJŚCIA/WYJŚCIA ALARMU

Wejście/wyjście alarmu z tyłu składa się z następujących elementów.



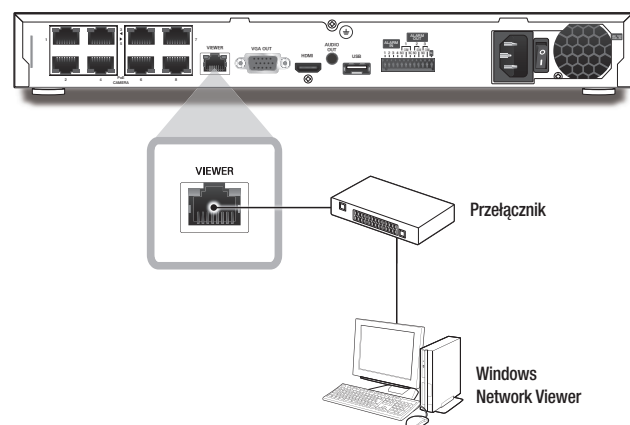
- ALARM IN 1 ~ 4 : Wejście alarmu
- ALARM OUT 1 ~ 3 : Wyjście alarmu



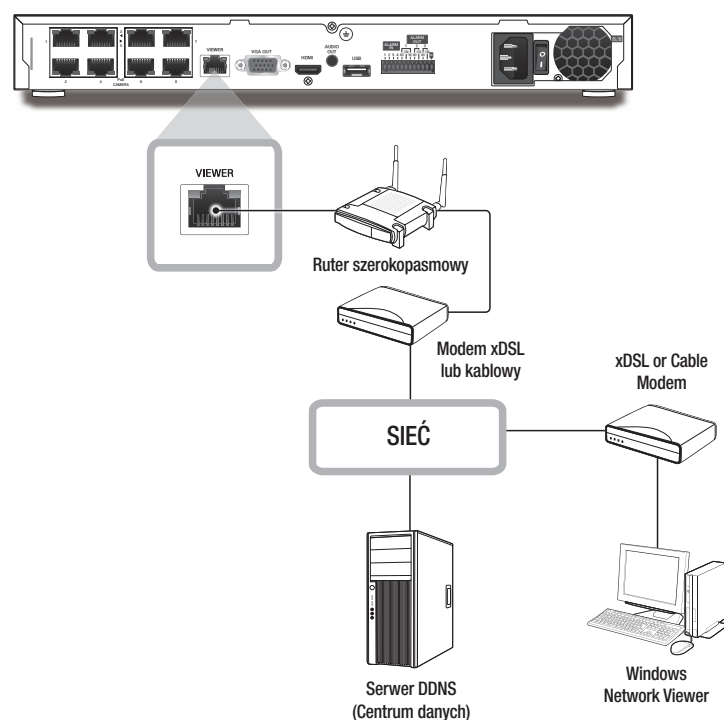
PODŁĄCZANIE DO SIECI

- Aby uzyskać więcej informacji na temat połączenia sieciowego, zobacz "Konfiguracja sieci" w Podręczniku Użytkownika Wisenet NVR.
- Poniższe rysunki przedstawiają model XRN-810S.

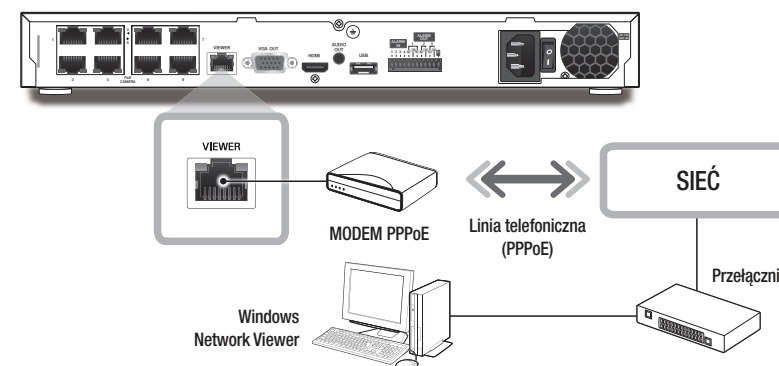
Połączenie sieciowe za pomocą kabla Ethernet (10/100/1000BaseT)



Połączenie sieciowe za pomocą routera

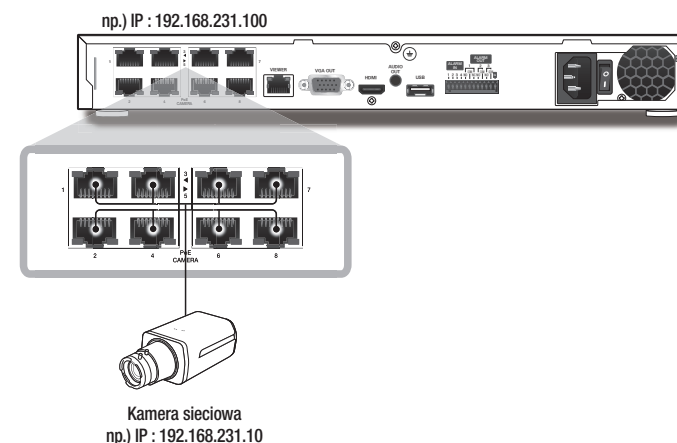


Podłączanie do Internetu przez PPPoE

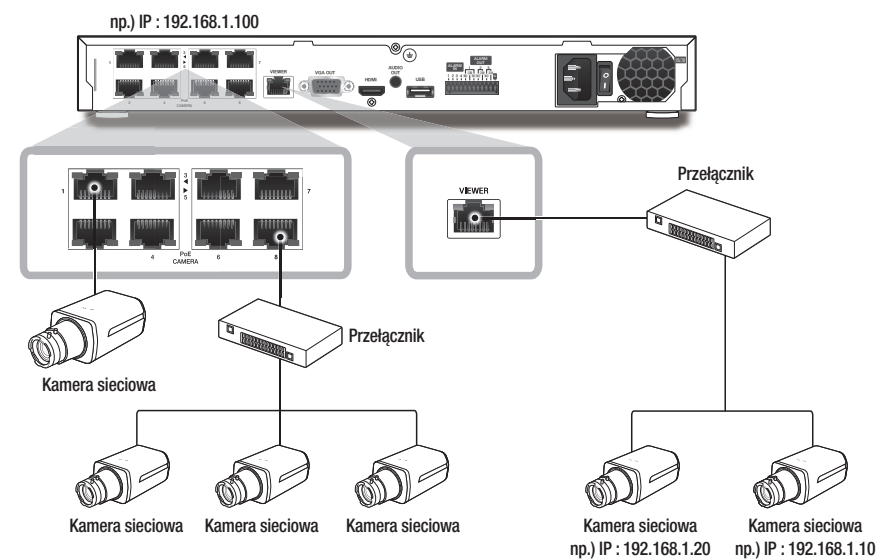


Podłączenie kamery sieciowej

Przykład 1)



Przykład 2)



• XRN-410S/XRN-810S

Opcja		Szczegóły	
		XRN-410S	XRN-810S
Wyświetlacz			
Kamera sieciowa	Wejścia	Maks. 4 kanały	Maks. 8 kanały
	Rozdzielczość	CIF ~ 8MP	
	Protokoły	Wisenet, ONVIF	
Na żywo	Wyświetlacz lokalny	1x HDMI(HDMI 1.4) / 1x VGA	
	Wydajność	[Monitor lokalny] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - Ale dla formatu MJPEG dozwolone jest do 2MP	
Wydajność			
System operacyjny	Wbudowany	Linux	
Nagrywanie	Kompresja	H.265, H.264, MJPEG (Można dekodować do 2M)	
	Szerokość pasma nagrywania	Maks. 50 Mbps	Maks. 100 Mbps
	Rozdzielczość	CIF ~ 8MP	
Wyszukiwanie i odtwarzanie	Pasmo odtwarzania	32 Mbps (4ch jednocześnie)	32 Mbps (8ch jednocześnie)
	Wydajność	Maks. 3 użytkowników (1 lokalny, 3 zdalnych)	
	Odtwarzanie jednoczesne	Maks. 4 kanały (lokalny, sieć)	Maks. 8 kanały (lokalny, sieć)
	Rozdzielczość	CIF ~ 8MP	
	Sterowanie odtwarzaniem	Szybko/wolno Do przodu/do tyłu, Jeden krok w górę/Jeden krok w dół	
Pamięć masowa	Wbudowany	0TB ~ 6TB (dependent on region) - Seagate : ~ 4TB	
	Wewnętrzny HDD	1 (Maks. 6TB)	2 (Maks. 12TB)

Opcja		Szczegóły	
		XRN-410S	XRN-810S
Kopia zapasowa	Tworzenie kopii zapasowych plików	BU/Exe(USB), JPG/AVI(Web, CMS)	
	Funkcja	Odtwarzanie wielu kanałów (maks. 4), Wyświetlanie Daty/ Godziny/Tytułu	Odtwarzanie wielu kanałów (maks. 8), Wyświetlanie Daty/ Godziny/Tytułu
Czujnik	We/Wy	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
Audio	Wejście	4 kanały (sieć)	8 kanały (sieć)
	Kompresja	G.711, G.726, AAC(16/48KHz)	
	Komunikacja dźwiękowa	2-kierunkowa	
Sieć			
Protokół		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, klient), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, klient)	
DDNS		Hanwha Security DDNS	
Szerokość pasma transmisji		64Mbps	128Mbps
Maks. liczba użytkowników zdalnych		Wyszukiwanie (3)/Live Unicast (10)/Multicast (20)	
Wersja IP		IPv4/v6	
Zabezpieczenia		Dziennik dostępu użytkowników, Filtrowanie IP, 802.1x, Szyfrowanie	
Języki		Angielski, francuski, niemiecki, włoski, hiszpański, rosyjski, turecki, polski, holenderski, szwedzki, czeski, portugalski, duński, rumuński, serbski, chorwacki, węgierski, grecki, norweski, fiński, koreański, chiński, japoński, tajski	
SO		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11	
Przeglądarka internetowa		Przeglądarka Web Viewer bez wtyczek Obsługiwane przeglądarki: Google Chrome 47, MS Edge 20 Przeglądarka WebViewer z wtyczkami Obsługiwane przeglądarki: MS Explore 11, Apple Safari 9 * Tylko Mac OS X	
Oprogramowanie do wyświetlania obrazów	Typ	SSM, Webviewer, SmartViewer, Wisenet Mobile	
	Obsługa CMS	SDK/CGI (SUNAPI)	

Opcja		Szczegóły	
		XRN-410S	XRN-810S
Funkcje			
Sterowanie kamerą	PoE	1) Zużycie energii przez monitor (PoE) 2) Włączenie i wyłączenie sterowania dla każdej kamery PoE 3) Zdalne zerowanie dla każdej kamery PoE	
Synchronizacja czasu		Kreator konfiguracji (język, data i godzina, sieć, automatyczna konfiguracja kamery) P2P (QR Code)	
Nadmiarowość	ARB	Tak	
PTZ	Sterowanie	Przez GUI, Przeglądarka, 300 Preset	
Smart Phone	Model obsługiwany	Android, iOS	
	Obsługiwane protokoły	RTP, RTSP, HTTP, CGI (SUNAPI)	
Smart Phone	Sterowanie	Tryb na żywo (4 kanałów): Obsługa wielu profiliów Odtwarzanie (1 kanał) Przesyłanie zdarzeń w trybie Push	Tryb na żywo (8 kanałów): Obsługa wielu profiliów Odtwarzanie (1 kanał) Przesyłanie zdarzeń w trybie Push
Kontrola systemu		Myszka, sieć WWW, Zdalny sterownik na podczerwień	
Wskaźnik/Interfejs			
Front	Wskaźnik	LED (kontrolka statusu) : 3 szt. Status Zasilania LED 1EA Status Alarmu LED 1EA Status Nagrywania LED 1EA	LED (kontrolka statusu) : 6 szt. Status Zasilania LED 1EA Działanie HDD LED 1EA Status Alarmu LED 1EA Status Nagrywania LED 1EA Działanie sieci LED 1EA Status BACKUPU LED 1EA
Złącza	VGA	1EA	
	HDMI	1EA - Obsługa rozdzielczości maks. 4K (3840 x 2160), 30Hz	

Opcja		Szczegóły	
		XRN-410S	XRN-810S
Złącza	Audio	Out (1EA, RCA, Line)	
	Ethernet	■ 4EA (PoE/PoE+, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink to CMS	■ 8EA (PoE/PoE+, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink to CMS
	Alarm	Wejście(4EA, Blok zacisku) Wyjście (2EA, Blok zacisku)	Wejście(4EA, Blok zacisku) Wyjście (3EA, Blok zacisku)
	USB	2EA(Przód 1, Tył 1)	3EA(Przód 2, Tył 1)
	Pam. masowa	-	
	Numer seryjny	-	
	Reset	Przełącznik (1EA)	
	Kabel zasilania	Uwzględnione	
System			
Rejestr	Lista rejestrów	Maks. 20000 każdy (Rejestr systemowy, Rejestr zdarzeń)	
Środowiskowe			
Temperatura działania / Wilgotność		Od +0°C do +40°C (+32°F do +104°F)	
Wilgotność		20% ~ 85% RH	
Elektryczne			
Gniazdo zasilania		54V DC / 1.67A	100 do 240 VAC ±10%
Pobór mocy		Maks.13W (44BTU, 2TB HDD x 1ea)	Maks.19W (64BTU, 2TB HDD x 1ea)
Budżet PoE		Maks. 50W	Maks. 100W
Mechaniczne			
Kolor / materiał		Czarny / metalowy	
Wymiary (szer. x głęb. x wys.)		szer. 300 x głęb. 47 x wys. 208.7mm (11.81"X1.85"X8.22") (1U)	szer. 370 x głęb. 44 x wys. 320mm (14.57"X1.73"X12.6") (1U)
Masa		1.694Kg(2T HDD)	3.356kg(2T HDD)

• QRN-410/QRN-810

Opcja		Szczegóły	
		QRN-410	QRN-810
Wyświetlacz			
Kamera sieciowa	Wejścia	Maks. 4 kanały	Maks. 8 kanały
	Rozdzielczość	CIF ~ 8MP	
	Protokoły	Wisenet, ONVIF	
Na żywo	Wyświetlacz lokalny	1x HDMI(HDMI 1.4) / 1x VGA	
	Wydajność	[Monitor lokalny] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - Ale dla formatu MJPEG dozwolone jest do 2MP	
Wydajność			
System operacyjny	Wbudowany	Linux	
Nagrywanie	Kompresja	H.265, H.264, MJPEG (Można dekodować do 2M)	
	Szerokość pasma nagrywania	Maks. 50 Mbps	Maks. 100 Mbps
	Rozdzielczość	CIF ~ 8MP	
Wyszukiwanie i odtwarzanie	Pasmo odtwarzania	32 Mbps (4ch jednocześnie)	32 Mbps (8ch jednocześnie)
	Wydajność	Maks. 3 użytkowników (1 lokalny, 3 zdalnych)	
	Odtwarzanie jednoczesne	Maks. 4 kanały (lokalny, sieć)	Maks. 8 kanały (lokalny, sieć)
	Rozdzielczość	CIF ~ 8MP	
	Sterowanie odtwarzaniem	Szybko/wolno Do przodu/do tyłu, Jeden krok w górę/Jeden krok w dół	
Pamięć masowa	Wbudowany	0TB ~ 6TB (dependent on region) - Seagate : ~ 4TB	
	Wewnętrzny HDD	1 (Maks. 6TB)	

Opcja		Szczegóły	
		QRN-410	QRN-810
Kopia zapasowa	Tworzenie kopii zapasowych plików	BU/Exe(USB), JPG/AVI(Web, CMS)	
	Funkcja	Odtwarzanie wielu kanałów (maks. 4), Wyświetlanie Daty/ Godziny/Tytułu	Odtwarzanie wielu kanałów (maks. 8), Wyświetlanie Daty/ Godziny/Tytułu
Czujnik	We/Wy	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
Audio	Wejście	4 kanały (sieć)	8 kanały (sieć)
	Kompresja	G.711, G.726, AAC(16/48KHz)	
	Komunikacja dźwiękowa	2-kierunkowa	
Sieć			
Protokół		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, klient), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, klient)	
DDNS		Hanwha Security DDNS	
Szerokość pasma transmisji		64Mbps	128Mbps
Maks. liczba użytkowników zdalnych		Wyszukiwanie (3)/Live Unicast (10)/Multicast (20)	
Wersja IP		IPv4/v6	
Zabezpieczenia		Dziennik dostępu użytkowników, Filtrowanie IP, 802.1x, Szyfrowanie	
Języki		Angielski, francuski, niemiecki, włoski, hiszpański, rosyjski, turecki, polski, holenderski, szwedzki, czeski, portugalski, duński, rumuński, serbski, chorwacki, węgierski, grecki, norweski, fiński, koreański, chiński, japoński, tajski	
SO		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11	
Przeglądarka internetowa		Przeglądarka Web Viewer bez wtyczek Obsługiwane przeglądarki: Google Chrome 47, MS Edge 20 Przeglądarka WebViewer z wtyczkami Obsługiwane przeglądarki: MS Explore 11, Apple Safari 9 * Tylko Mac OS X	
Oprogramowanie do wyświetlania obrazów	Typ	SSM, Webviewer, SmartViewer, Wisenet Mobile	
	Obsługa CMS	SDK/CGI (SUNAPI)	

Opcja		Szczegóły	
		QRN-410	QRN-810
Funkcje			
Synchronizacja czasu		Kreator konfiguracji (język, data i godzina, sieć, automatyczna konfiguracja kamery) P2P (QR Code)	
Nadmiarowość	ARB	Tak	
PTZ	Sterowanie	Przez GUI, Przeglądarka, 300 Preset	
Smart Phone	Model obsługiwany	Android, iOS	
	Obsługiwane protokoły	RTP, RTSP, HTTP, CGI (SUNAPI)	
Smart Phone	Sterowanie	Tryb na żywo (4 kanałów): Obsługa wielu profiliów Odtwarzanie (1 kanał) Przesyłanie zdarzeń w trybie Push	Tryb na żywo (8 kanałów): Obsługa wielu profiliów Odtwarzanie (1 kanał) Przesyłanie zdarzeń w trybie Push
Kontrola systemu		Myszka, sieć WWW, Zdalny sterownik na podczerwień	
Wskaźnik/Interfejs			
Front	Wskaźnik	Status Zasilania LED 1EA Status Alarmu LED 1EA Status Nagrywania LED 1EA	
Złącza	VGA	1EA	
	HDMI	1EA - Obsługa rozdzielczości maks. 4K (3840 x 2160), 30Hz	
Złącza	Audio	Out (1EA, RCA, Line)	
	Ethernet	1EA (WAN, 1Gbps) - WAN : Uplink to CMS	
	Alarm	Wejście(4EA, Blok zacisku) Wyjście (2EA, Blok zacisku)	Wejście(4EA, Blok zacisku) Wyjście (3EA, Blok zacisku)
	USB	Przód 1EA(USB2.0), Tył 1(USB3.0)	
	Pam. masowa	-	
	Numer seryjny	-	
	Reset	Przełącznik (1EA)	
	Kabel zasilania	Uwzględnione	

Opcja		Szczegóły	
		QRN-410	QRN-810
System			
Rejestr	Lista rejestrów	Maks. 20000 każdy (Rejestr systemowy, Rejestr zdarzeń)	
Środowiskowe			
Temperatura działania / Wilgotność		Od +0°C do +40°C (+32°F do +104°F)	
Wilgotność		20% ~ 85% RH	
Elektryczne			
Gniazdo zasilania		12V/4A	
Pobór mocy		Maks. 9W (31BTU, 2TB HDD x 1ea)	
Mechaniczne			
Kolor / materiał		Czarny / metalowy	
Wymiary (szer. x głęb. x wys.)		szer.300 x głęb.47 x wys.208.7mm (11.81"X1.85"X8.22") (1U)	
Masa		1.655Kg (2T HDD)	

• QRN-410S/QRN-810S/QRN-1610S

Opcja		Szczegóły		
		QRN-410S	QRN-810S	QRN-1610S
Wyświetlacz				
Kamera sieciowa	Wejścia	Maks. 4 kanały	Maks. 8 kanały	Maks. 16 kanały
	Rozdzielczość	CIF ~ 8MP		
	Dewarping w trybie rybiego oka	N/A (proces na sieci / CMS)		
	Protokoły	Wisenet, ONVIF, RTSP		
Na żywo	Wyświetlacz lokalny	1x HDMI		1x HDMI / 1x VGA
	Wydajność	[Monitor lokalny] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(120fps), 720p(120fps), D1(120fps)	[Monitor lokalny] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps)	[Monitor lokalny] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(480fps), D1(480fps)
Wydajność				
System operacyjny	Wbudowany	Linux		
Nagrywanie	Kompresja	H.265, H.264, MJPEG		
	Szerokość pasma nagrywania	Maks. 40 Mbps	Maks. 80 Mbps	Maks. 128 Mbps
	Rozdzielczość	CIF ~ 8MP		
Wyszukiwanie i odtwarzanie	Pasma odtwarzania	32 Mbps (4ch jednocześnie)	32 Mbps (8ch jednocześnie)	
	Wydajność	Maks. 3 użytkowników (1 lokalny, 3 zdalnych)		
	Odtwarzanie jednoczesne	Maks. 4 kanały (lokalny, sieć)	Maks. 8 kanały (lokalny, sieć)	Maks. 8 kanały (lokalny), Maks. 16 kanały (sieć)
	Rozdzielczość	CIF ~ 8MP		
	Dewarping w trybie rybiego oka	N/A (proces na sieci / CMS)		
	Sterowanie odtwarzaniem	Szybko/wolno Do przodu/do tyłu, Jeden krok w górę/Jeden krok w dół		
Pamięć masowa	Wbudowany	N/A		
	Wewnętrzny HDD	1 (Maks. 6TB)		2 (Maks. 12TB)

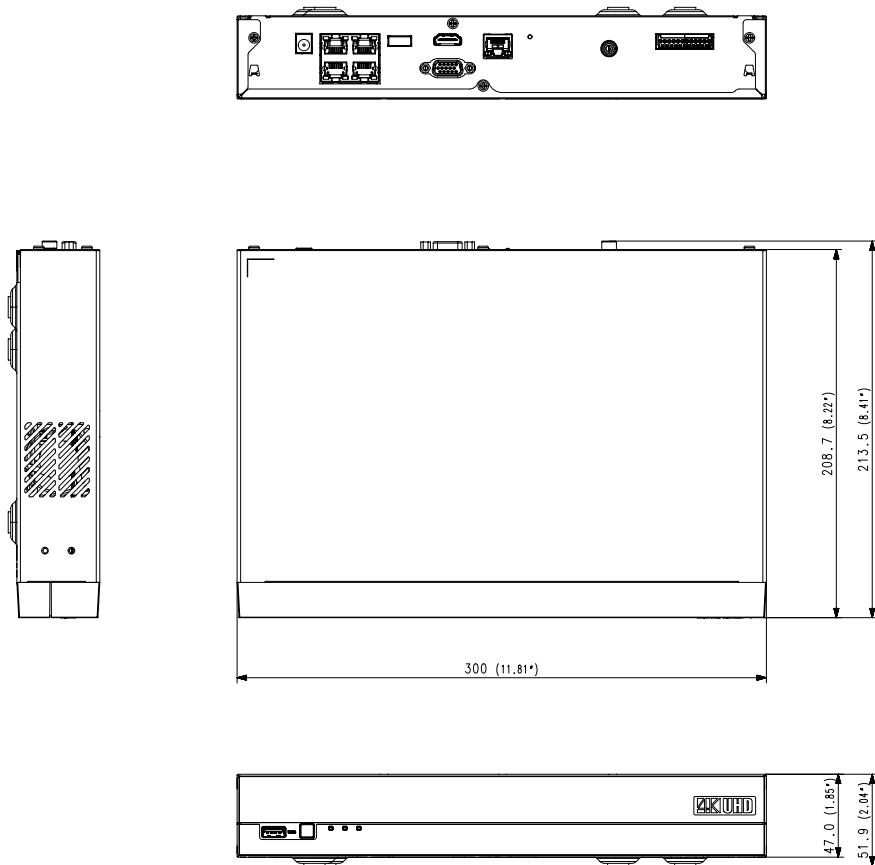
Opcja		Szczegóły		
		QRN-410S	QRN-810S	QRN-1610S
Kopia zapasowa	Tworzenie kopii zapasowych plików	BU/Exe(USB), JPG/AVI(Web, CMS)		
	Funkcja	Odtwarzanie wielu kanałów (maks. 4), Wyświetlanie Daty/ Godziny/Tytułu	Odtwarzanie wielu kanałów (maks. 8), Wyświetlanie Daty/Godziny/Tytułu	
Czujnik	We/Wy	N/A		4/2 (NO 1EA, NO/NC 1EA)
Audio	Wejście	4 kanały (sieć)	8 kanały (sieć)	16 kanały (sieć)
	Kompresja	G.711, G.726, AAC(16/48KHz)		
	Komunikacja dźwiękowa	2-kierunkowa		
Sieć				
Protokół		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, klient), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, klient)		
DDNS		Hanwha Security DDNS		
Szerokość pasma transmisji		50Mbps	80Mbps	128Mbps
Maks. liczba użytkowników zdalnych		Wyszukiwanie (3)/Live Unicast (10)/Multicast (20)		
Wersja IP		IPv4/v6		
Zabezpieczenia		Dziennik dostępu użytkowników, Filtrowanie IP, 802.1x, Szyfrowanie		
SO		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11		
Przeglądarka internetowa		Przeglądarka Web Viewer bez wtyczek Obsługiwane przeglądarki: Google Chrome 47, MS Edge 20 Przeglądarka WebViewer z wtyczkami Obsługiwane przeglądarki: MS Explore 11, Apple Safari 9 * Tylko Mac OS X		
Oprogramowanie do wyświetlania obrazów	Typ	SSM, Webviewer, SmartViewer, Wisenet Mobile		
	Obsługa CMS	SDK/CGI (SUNAPI)		
Funkcje				
Sterowanie kamerą	PoE	1) Zużycie energii przez monitor (PoE) 2) Włączenie i wyłączenie sterowania dla każdej kamery PoE 3) Zdalne zerowanie dla każdej kamery PoE		

Opcja		Szczegóły		
		QRN-410S	QRN-810S	QRN-1610S
Synchronizacja czasu		Kreator konfiguracji (język, data i godzina, sieć, automatyczna konfiguracja kamery) P2P (QR Code)		
ARB		Tak		
PTZ	Sterowanie	Przez GUI, Przeglądarka, 300 Preset		
Smart Phone	Model obsługiwany	Android, iOS		
	Obsługiwane protokoły	RTP, RTSP, HTTP, CGI (SUNAPI)		
Smart Phone	Sterowanie	Tryb na żywo (4 kanałów): Obsługa wielu profili Odtwarzanie (1 kanał) Przesyłanie zdarzeń w trybie Push	Tryb na żywo (8 kanałów): Obsługa wielu profili Odtwarzanie (1 kanał) Przesyłanie zdarzeń w trybie Push	Tryb na żywo (16 kanałów): Obsługa wielu profili Odtwarzanie (1 kanał) Przesyłanie zdarzeń w trybie Push
	Maks. liczba użytkowników zdalnych	Wyszukiwanie (3)/Live Unicast (10)/Multicast (20)		
Kontrola systemu		Myszka, sieć WWW	Myszka, sieć WWW, Zdalne sterowanie IR	
Wskaźnik/Interfejs				
Front	Wskaźnik	LED (kontrolka statusu) : 3 szt. Status Zasilania LED 1EA Status Alarmu LED 1EA Status Nagrywania LED 1EA		LED (kontrolka statusu) : 6 szt. Status Zasilania LED 1EA Działanie HDD LED 1EA Status Alarmu LED 1EA Status Nagrywania LED 1EA Działanie sieci LED 1EA Status BACKUPU LED 1EA
Złącza	VGA	N/A		1EA(1920x1080, 1280x1024, 1280x720, 1024x768)
	HDMI	1EA (3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720, 1024x768)		
	Audio	N/A		Out (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

Opcja		Szczegóły		
		QRN-410S	QRN-810S	QRN-1610S
Złącza	Alarm	N/A		Wejście(4EA, Blok zacisku) Wyjście (2EA, Blok zacisku)
	USB	Przód 1EA(USB2.0), Tył 1EA(USB3.0)		Przód 2EA(USB2.0), Tył 1EA(USB3.0)
	Reset	Przełącznik (1EA)		
	Kabel zasilania	Uwzględnione		
System				
Rejestr	Lista rejestrów	Maks. 20000 każdy (Rejestr systemowy, Rejestr zdarzeń)		
Środowiskowe				
Temperatura działania / Wilgotność		Od +0°C do +40°C (+32°F do +104°F)		
Wilgotność		20% ~ 85% RH		
Elektryczne				
Gniazdo zasilania		54V DC / 1.20A	54V DC / 1.67A	100 do 240 VAC
Pobór mocy		Maks. 47W (1HDD, PoE on) Maks. 7.4W (1HDD, PoE off)	Maks. 76.2W (1HDD, PoE on) Maks. 8.1W (1HDD, PoE off)	Maks. 158.2W (2HDDs, PoE on) Maks. 34.6W (2HDDs, PoE off)
Budżet PoE		Maks. 30W	Maks. 50W	Maks. 130W
Mechaniczne				
Kolor / materiał		Czarny / metalowy		
Wymiary (szer. x głęb. x wys.)		szer. 300.0 x głęb. 47.1 x wys. 208.4 mm(1U)		szer. 370.0 x głęb. 44.0 x wys. 320 mm(1U)
Masa		0.99Kg	1.01Kg	2.79Kg

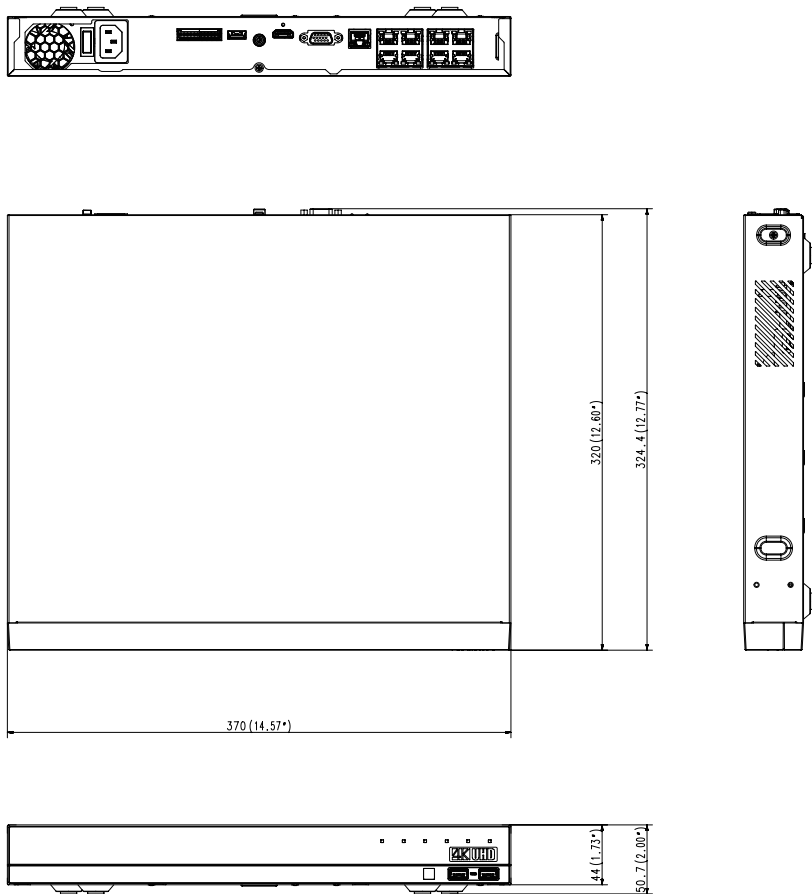
• XRN-410S

Jednostka : mm (inch)



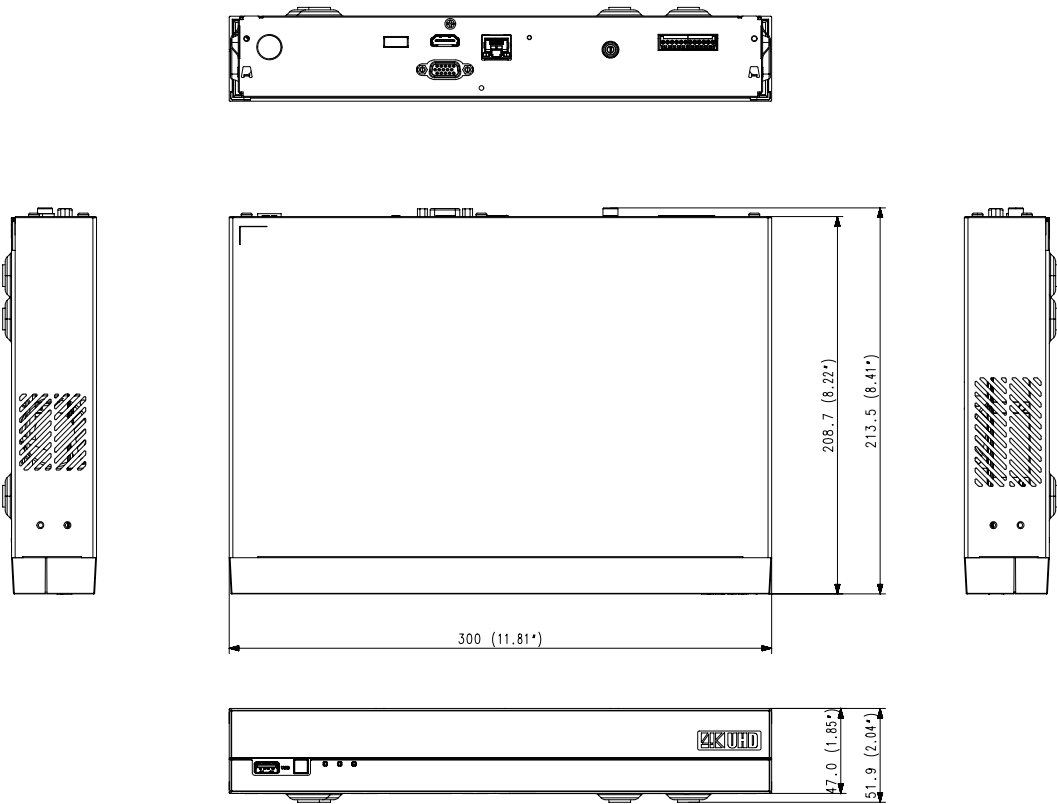
• XRN-810S

Jednostka : mm (inch)



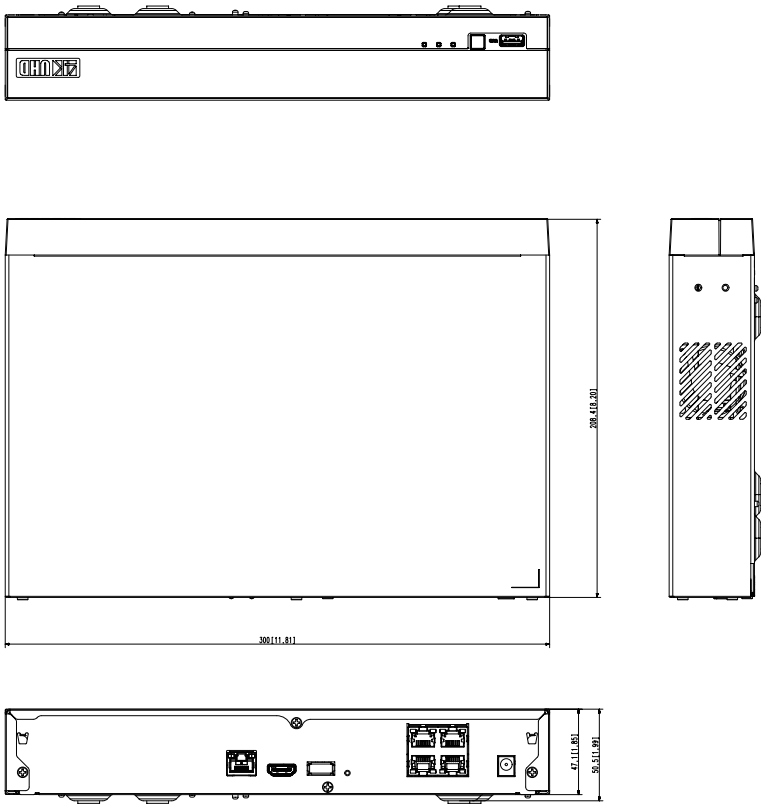
• QRN-410/QRN-810

Jednostka : mm (inch)



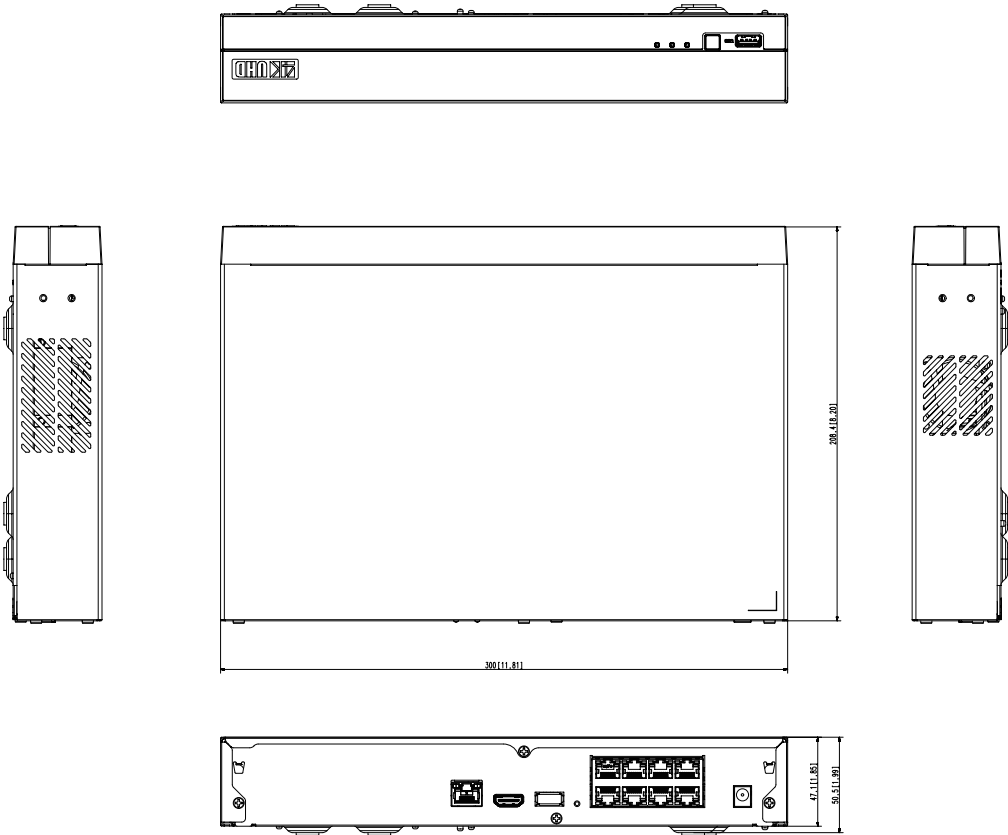
• QRN-410S

Jednostka : mm (inch)



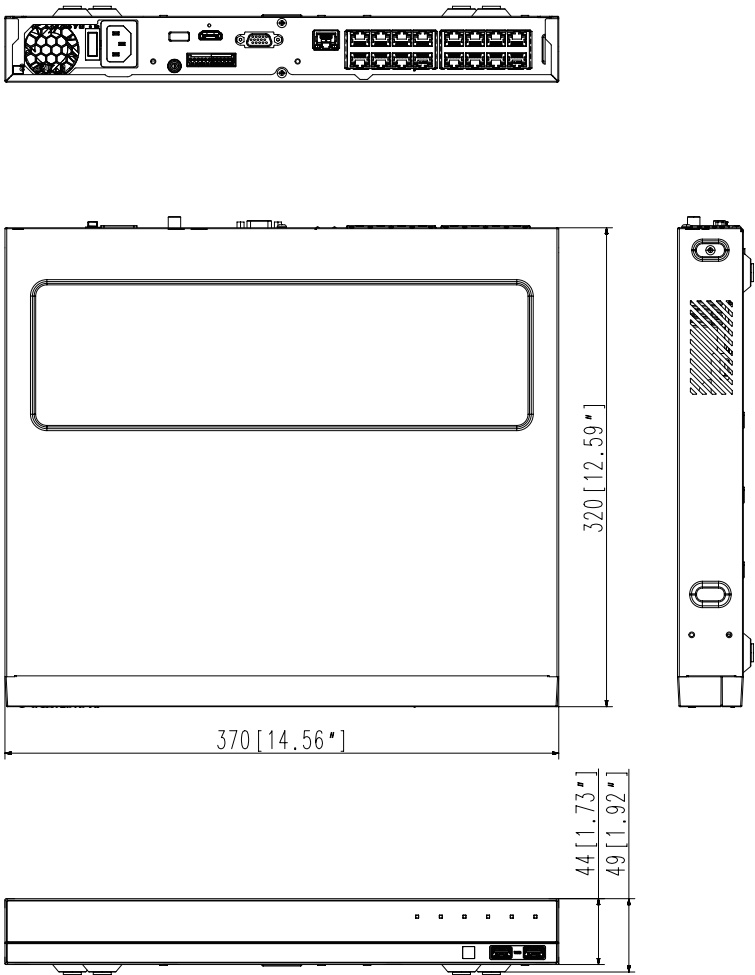
• QRN-810S

Jednostka : mm (inch)



• QRN-1610S

Jednostka : mm (inch)



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- **LGPL Software:** avahi-0.6.32, ffmpeg-2.4.3, glib-2.46.2, libdaemon-0.14, libnl-3.2.25, libusb-0.1.12, libusb-0.1.5, qrencode-3.4.4, wvdial-1.61, wstreams-4.6.1, Live555, qtopia4.7.2
- **MPL 1.1:** npapi-sdk
- **BSD 2-Clause License:** FreeBSD
- **BSD 3-Clause License:** minipnp-1.5-ppc, net-snmp v5.6.2.1, ppp-2.4.5, jquery.sha256, jsbn, libjpeg-turbo, lighttpd v1.4.35, msinttypes, requires, spher+++, sprintf 0.7, System-Verilog-Packet-Library, Text OpenGL Extension Wrangler Library 1.7.0
- **MIT License:** aptechcmv2, avropendous, cJSON, cJSON-Dave Gamble, dynatree, javascript-ipv6, jqGrid, jQuery UI, jquery-form, jquery-hashchange, jquery-json, jquery-numeric, jquery-throttle-debounce 1.1, JS-Browser-Driver, moon9, noty, Raphael JavaScript Library, wildflower 1.3.Beta
- **libxml2 License:** libxml2 v2.7.7
- **Apache 2.0 License:** RLLib
- **zlib/libpng Lisence:** cximage, HM NIS Edit, Nullsoft Scriptable Install System 2.46, PNG reference library, tinyxml 2.6.2, zlib v1.2.8
- **Boost Software License:** boost 1.57.0
- **Curl License:** curl v7.49.1
- **Microsoft Public License:** Minima, Text Designer Outline Text Library
- **Code Project Open 1.02 License:** CPPPSQLite - C++ Wrapper for SQLite, A reusable, high performance, socket server class - Part3
- **JPEG License:** libjpeg-8b
- **RSA MD4 or MD5 Message-Digest Algorithm License:** JavaScript MD5 1.1, sipxtapi
- **PHP License 3.01:** HPHP-2.1.0, php v5.6.33
- **OpenSSL Combined License:** openssl v1.0.2n
- **PCRE 5 License:** pcre v8.39
- **NTP License:** ntp v4.2.8p10
- **CodeIgniter License:** CodeIgniter
- **GLUT for Win32 License:** GLUT for Win32
- **ISC License:** dhcp 4.3-2rc2
- **Brian Gladman Alternate License:** AES with the VIA ACE
- **Acknowledgement:** This product includes modified version of ffmpeg, Live555, qtopia4.7.2 and npapi-sdk.

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Version 2, June 1991

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- [24]Frank Kardel [25]<Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup
- [26]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
- [27]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
- [28]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
- [29]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

- [30]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
- [31]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
- [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
- [33]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
- [34]Jeffrey Mogul <mogul@pa.dec.com> ntpttrace utility
- [35]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
- [36]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
- [37]Derek Mulcahy <derek@toybox.demon.co.uk> and [38]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
- [39]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
- [40]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
- [41]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
- [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
- [44]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
- [45]Michael Shields <shields@tembel.org> USNO clock driver
- [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)
- [48]Kenneth Stone <ken@sdd.hp.com> HP-UX port
- [49]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
- [50]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
- [51]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
- [52]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
- [53]gif
- [54]David L. Mills <mills@udel.edu>

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Na wszystkich etapach produkcji firma Hanwha Techwin dba o środowisko naturalne iwykonuje wiele działań dążąc do dostarczenia klientom produktów niegroźnych dla środowiska. Oznaczenie „Eco” świadczy o tym, że firma Hanwha Techwin wytwarza produkty nieszkodliwe dla środowiska oraz wskazuje, że niniejszy produkt spełnia wymagania przedstawione w dyrektywie RoHS obowiązującej w UE.



Prawidłowe usuwanie produktu (zużyty sprzęt elektryczny i elektroniczny)

To oznaczenie umieszczone na produkcie, akcesoriach lub dokumentacji oznacza, że po zakończeniu eksploatacji nie należy tego produktu ani jego akcesoriów (np. ładowarki, zestawu słuchawkowego, przewodu USB) wyrzucać wraz ze zwykłymi odpadami gospodarstwa domowego. Aby uniknąć szkodliwego wpływu na środowisko naturalne i zdrowie ludzi wskutek niekontrolowanego usuwania odpadów, prosimy o oddzielenie tych przedmiotów od odpadów innego typu oraz o odpowiedzialny recykling i praktykowanie ponownego wykorzystania materiałów.

W celu uzyskania informacji na temat miejsca i sposobu bezpiecznego dla środowiska recyklingu tych przedmiotów, użytkownicy w gospodarstwach domowych powinni skontaktować się z punktem sprzedaży detalicznej, w którym dokonali zakupu produktu, lub z organem władz lokalnych.

Użytkownicy w firmach powinni skontaktować się ze swoimi dostawcą i sprawdzić warunki umowy zakupu. Produktu ani jego akcesoriów nie należy usuwać razem z innymi odpadami komercyjnymi..



Sposób poprawnego usuwania baterii, w które wyposażony jest niniejszy produkt

(Dotyczy obszar Unii Europejskiej oraz innych krajów europejskich posiadających oddzielne systemy zwrotu zużytych baterii.)

Niniejsze oznaczenie na baterii, instrukcji obsługi lub opakowaniu oznacza, że po upływie okresu użytkowania baterie, w które wyposażony był dany produkt, nie mogą zostać usunięte wraz z innymi odpadami pochodzącymi z gospodarstw domowych. Przy zastosowaniu takiego oznaczenia symbole chemiczne (Hg, Cd lub Pb) wskazują, że dana bateria zawiera rtęć, kadm lub ołów w ilości przewyższającej poziomy odniesienia opisane w dyrektywie WE 2006/66. Jeśli baterie nie zostaną poprawnie zutylizowane, substancje te mogą powodować zagrożenie dla zdrowia ludzkiego lub środowiska naturalnego.

Aby chronić zasoby naturalne i promować ponowne wykorzystanie materiałów, należy oddzielać baterie od innego typu odpadów i poddawać je utylizacji poprzez lokalny, bezpłatny system zwrotu baterii.

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