

WiSeNet

SIECIOWA NAGRYWARKA WIDEO

Podręcznik specyfikacji produktu

PRN-4011



Sieciowa Nagrywarka Wideo

Podręcznik specyfikacji produktu

Prawa autorskie

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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.

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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 uycia 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.
Hasło należy zmieniać co trzy miesiące, aby zapewnić ochronę danych osobowych i zapobiec szkodom wynikającym z kradzieży informacji.
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Zastosowanie symboli graficznych

Symbole graficzne umieszczane na urządzeniach, niezależnie od tego, czy wymaga ich niniejsza norma, powinny być zgodne ze standardem IEC 60417, ISO 3864-2 lub ISO 7000, W razie braku odpowiednich symboli producent może zaprojektować określone symbole graficzne.
Symbole umieszczone na urządzeniu powinny być wyjaśnione w podręczniku użytkownika.

Symbol	Publikacja	Opis
	IEC60417, No.5032	Prąd przemienny

Produkty NVR posiadające poszczególne funkcje

Funkcja	Produkty
Wentylator	PRN-4011
RAID	PRN-4011
iSCSI	PRN-4011
Joystick	PRN-4011
Rozszerzony monitor	PRN-4011
Redundancja zasilania	PRN-4011
Przeł. awar.	PRN-4011

SPIS TREŚCI

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

INSTALACJA	8	Sprawdzanie stanowiska montażowego
	8	Montaż w regale
	8	Dodawanie Dysku Twardego

PODŁĄCZANIE INNEGO URZĄDZENIA	10	Podłączanie do urządzenia zewnętrznego
	10	Podłączanie modułu optycznego
	11	Podłączanie urządzenia USB
	11	Podłączanie Wejścia/Wyjścia Alarmu
	12	Podłączanie do sieci

DANE TECHNICZNE PRODUKTU	13	Dane techniczne produktu
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WIDOK URZĄDZENIA	15	Widok urządzenia
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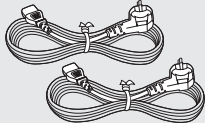
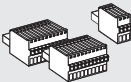
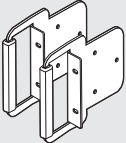
FUNKCJE

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.

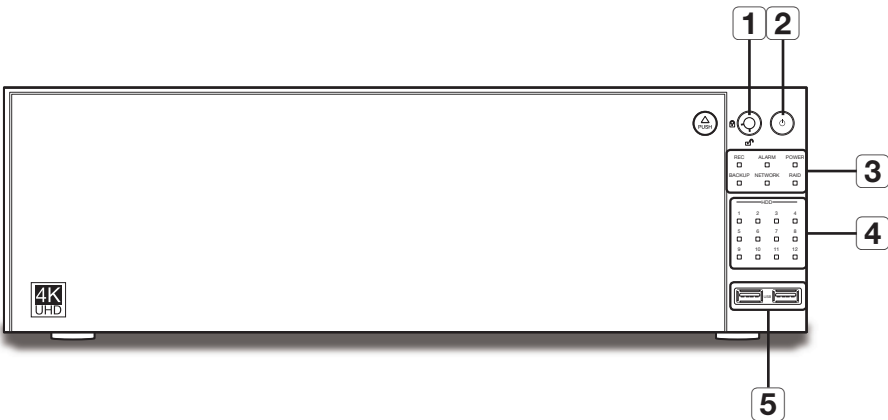
- Przyjazny użytkownikowi interfejs
- Obsługuje szeroką gamę rozdzielczości 4K (3840X2160, 4096X2160, 4000X3000)
- Wyświetla obraz w wysokiej rozdzielczości 4K za pośrednictwem portu HDMI
- Dekodowanie 64 podzielonych ekranów
- Obsługa sygnału wychodzącego na dwa monitory (rozszerzenie, powielenie)
- Obsługa wielu haseł
- 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 i zewnętrznego dysku twardego
- Jednoczesne odtwarzanie 16 kanałów
- Różne tryby wyszukiwania (Czas, zdarzenie, Int., tekst, kopia zapasowa, ARB)
- Różne tryby nagrywania (normalny, zdarzenie, Nagranie zaplanowane)
- Wejście/wyjście alarmu
- Funkcja zdalnego monitorowania przy użyciu przeglądarki Windows Network Viewer
- Monitorowanie na żywo przy użyciu kamery sieciowej
- Kreator instalacji (Ustawienia ułatwione)
- Obsługa wielu profili przeglądarki zdalnej
- Obsługa ARB
- Obsługa przełączania awaryjnego
- Funkcja umożliwiająca ustawienie okresu przechowywania danych dla każdego kanału

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.

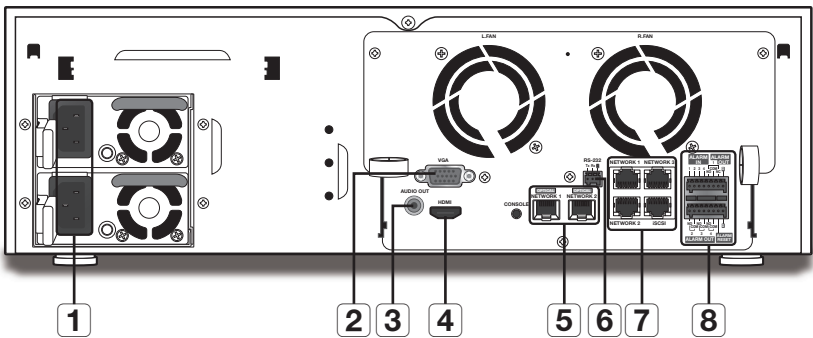
		
NVR	Mysz	Przewód Zasilający
		
Skrócona instrukcja obsługi	Blok zacisku	Montaż w szafie rack
		
Śruba mocująca w szafie rack	Śruba mocująca dysk twardy	Klucz zamka HDD

NAZWY CZĘŚCI I ICH FUNKCJE (PRZÓD)



Nazwa		Funkcja
1	Klucz zamka HDD	Jest to urządzenie zamykające w celu ograniczenia dostępu do HDD. Użyj klucza produktu dołączonego do zakupionego produktu.
2	Zasilanie	Do włączania i wyłączania zasilania nagrywarki sieciowej.
3	Wskaźnik LED	REC : Zapala się w trakcie nagrywania.
		ALARM : Zapala się, gdy następuje zdarzenie.
		POWER : Pokazuje stan zasilania Wł./Wył.
		BACKUP : Wyświetlany w trakcie tworzenia kopii zapasowej.
		NETWORK : Wyświetla stan łącza sieciowego oraz przesyłu danych.
4	HDD	RAID : Pokazuje aktualne działanie RAID.
		Wyświetla normalną ścieżkę dostępu do twardego dysku. Dioda włączy się po uzyskaniu dostępu do dysku twardego.
5	USB	Służy do podłączania urządzeń USB.

NAZWY CZĘŚCI I ICH FUNKCJE (TYŁ)



Nazwa		Funkcja
1	Zasilanie	Zacisk zasilania. - Zasilanie duplex pozwala na poprawną pracę z jednym tylko źródłem zasilania. Jednakże, w celu zapewnienia niezawodności zalecane jest wykorzystanie oddzielnych źródeł zasilania. - W przypadku wystąpienia problemu brzęczyk SMPS wyda sygnał dźwiękowy. (możesz wyłączyć brzęczyk, wciskając zielony przycisk) - Nawet jeśli zasilanie prądem nie jest włączone, zielony przycisk ledowy SMPS i wentylator SMPS są operatywne.
2	VGA	Wyjście sygnału wideo VGA.
3	AUDIO OUT	Wyjście sygnału audio (gniazdo RCA).
4	HDMI	Złącze HDMI.
5	OPTICAL NETWORK 1/2	Port optyczny I/F komunikacji
6	RS-232C	Zacisk przewodu używanego do komunikacji szeregowej.
7	NETWORK 1	Port połączeń kamery; otrzymuje wideo z kamery.
	NETWORK 2	Port połączeń kamery; otrzymuje wideo z kamery.
	NETWORK 3	Port do wysyłania wideo do przeglądarki internetowej.
	iSCSI	Port do połączenia z zewnętrznym iSCSI.
8	ALARM	- ALARM IN : Wejścia alarmu. (1~4 CH) - ALARM RESET : Gniazdo resetowania alarmu. - ALARM OUT : Wyjścia alarmu. (1~4 CH)

Ekran [CONSOLE] przeznaczony jest wyłącznie do napraw serwisowych.

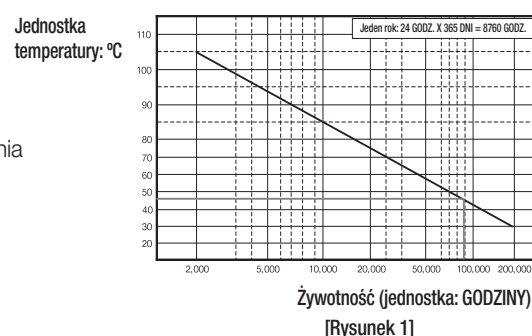
Przed użyciem produktu należy zapoznać się z poniższymi informacjami.

- 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

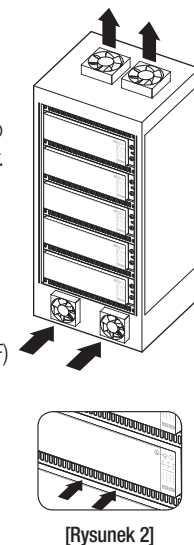
Niniejsze urządzenie jest wysokiej klasy urządzeniem wyposażonym w dysk twardy o dużej pojemności i inne kluczowe układy elektroniczne.

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.

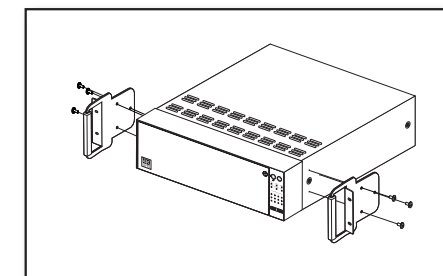
1. Należy upewnić się, że regał nie jest uszczelniony wewnątrz.
2. Należy zapewnić cyrkulację powietrza przez wlot i wylot zgodnie z ilustracją.
3. W przypadku ustawienia tych urządzeń lub innych urządzeń montowanych w szafie w sposób pokazany na rysunku 2 należy zapewnić przestrzeń na wentylację lub 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.



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: Do 12 dysków twardych
- 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.

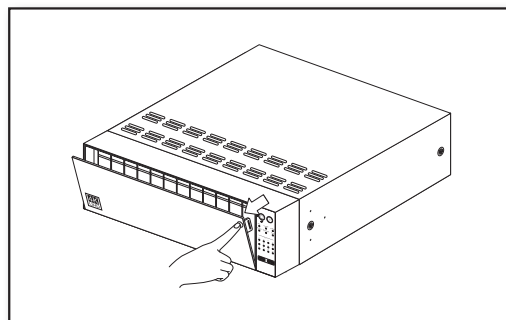
Przeestroga dotycząca instalacji dysku twardego

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.
4. Jeśli chcesz wymienić lub dodać dysk twardy, skontaktuj się najpierw z dostawcą lub naszym działem obsługi klienta.
 - Drzwi wewnętrzne na dyski twarde z przodu może otworzyć wyłącznie administrator produktu.

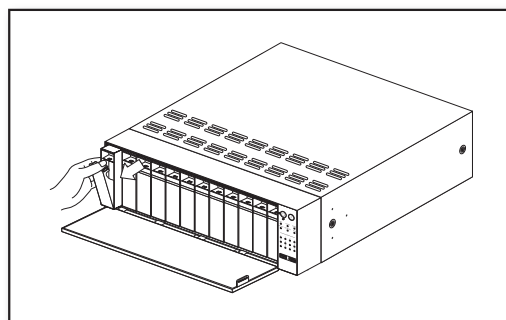
Montaż dysku twardego

- ❗ ▪ 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.
- W celu wymiany lub instalacji dodatkowego dysku twardego musisz skontaktować się z dostawcą lub naszym centrum obsługi klienta.

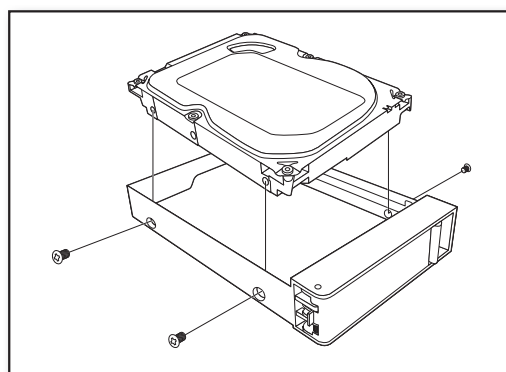
1. Przyciśnij przycisk <PUSH>, aby otworzyć przednią pokrywę.



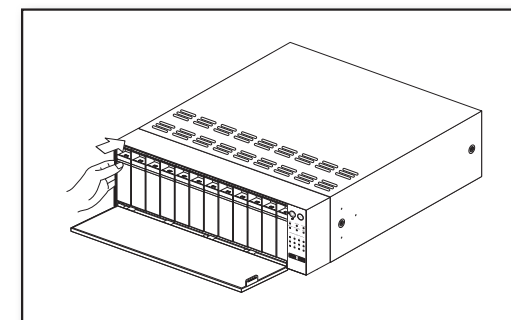
2. Po przyciśnięciu niebieskiego przycisku na ramce HDD pociągnij za ramkę, aby oddzielić ją od obudowy.



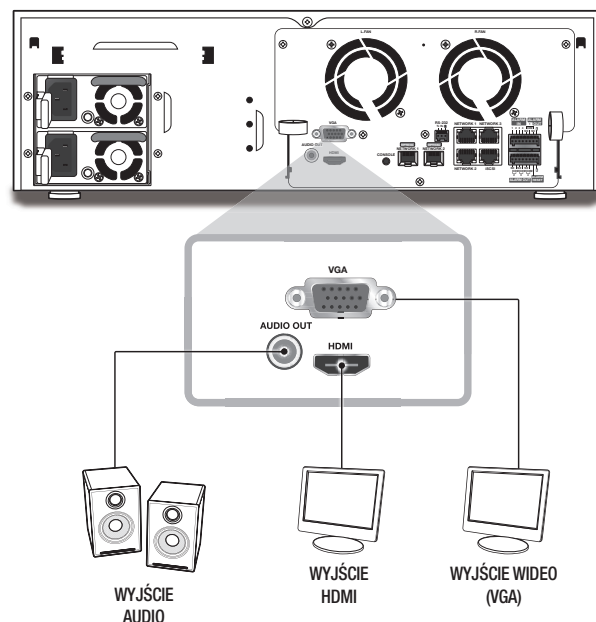
3. Zamocuj HDD w ramce i przykręć korzystając z dostarczonych śrubek.



4. Po zamontowaniu HDD w ramce, wsuń ramkę do obudowy i zamknij przednią pokrywę.



PODŁĄCZANIE DO URZĄDZENIA ZEWNĘTRZNEGO

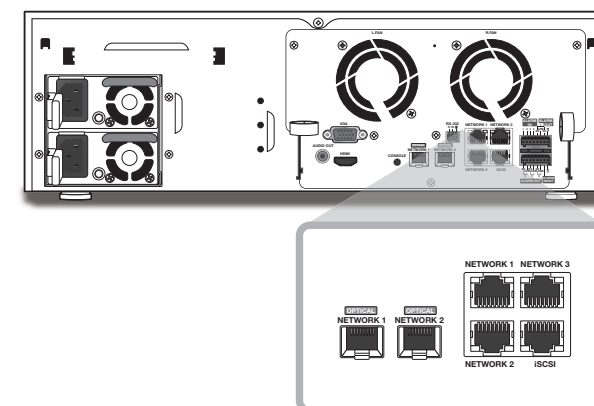


- ! Nieprawidłowe lub inne niż znamionowe źródło zasilania może uszkodzić system. Przed naciśnięciem przycisku zasilanie należy upewnić się, że stosowane jest wyłącznie źródło zasilania zgodne ze znamionowym.

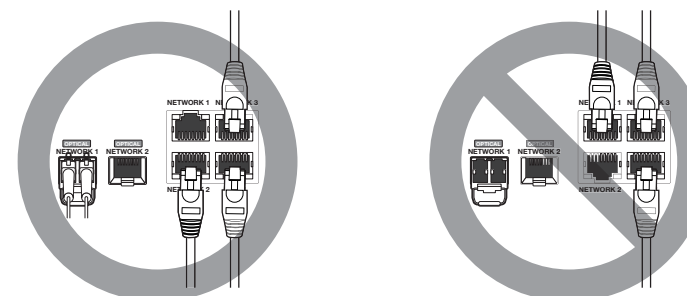
PODŁĄCZANIE MODUŁU OPTYCZNEGO

Moc znamionowa modułu optycznego wynosi 3,3 VDC, 0,25 A.

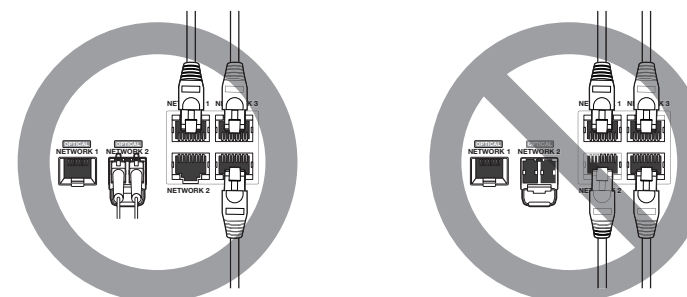
- Po zainstalowaniu modułu optycznego zastosowanie portu UTP jest ograniczone.
- Moduł optyczny należy zainstalować wyłącznie jeśli jest potrzebny.



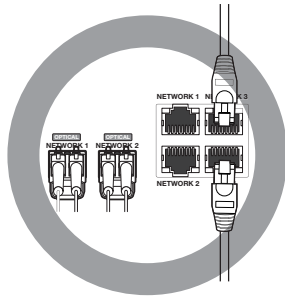
- Port [OPTICAL NETWORK1] jest portem współdzielonym z portem [NETWORK1].



- Port [OPTICAL NETWORK2] jest portem współdzielonym z portem [NETWORK2].



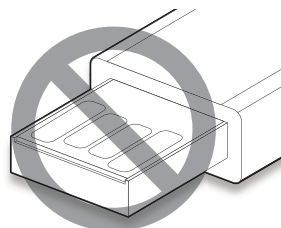
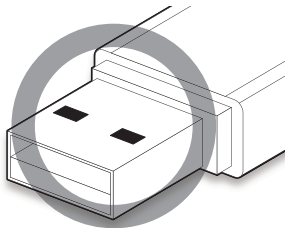
3. Port [OPTICAL NETWORK1/2] jest portem współdzielonym z portem [NETWORK1/2].



PODŁĄCZANIE URZĄDZENIA USB

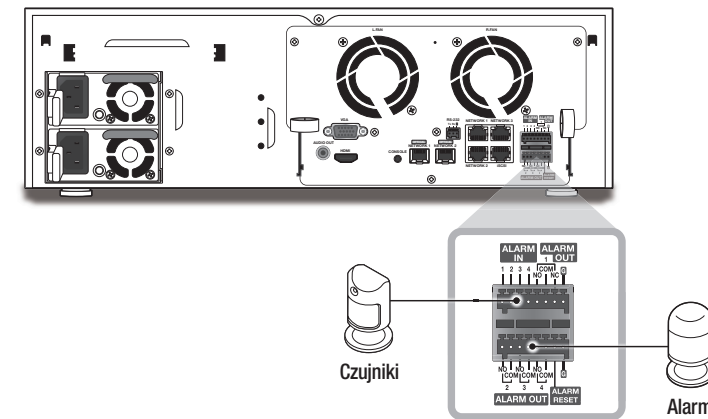
1. Na przodzie urządzenia znajduje się port USB.
2. Do portu USB można podłączyć dysk twardy USB, pamięć USB lub mysz.
3. Jeśli dysk twardy USB jest podłączony do systemu, można go znaleźć i skonfigurować, wykonując czynności w "Menu > Urządzenie > Urządź.pam.mas." Instrukcji Użytkownika Wisenet NVR.
4. 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.

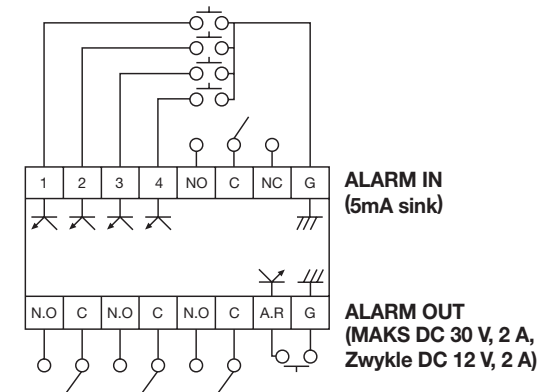


PODŁĄCZANIE WEJŚCIA/WYJŚCIA ALARMU

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



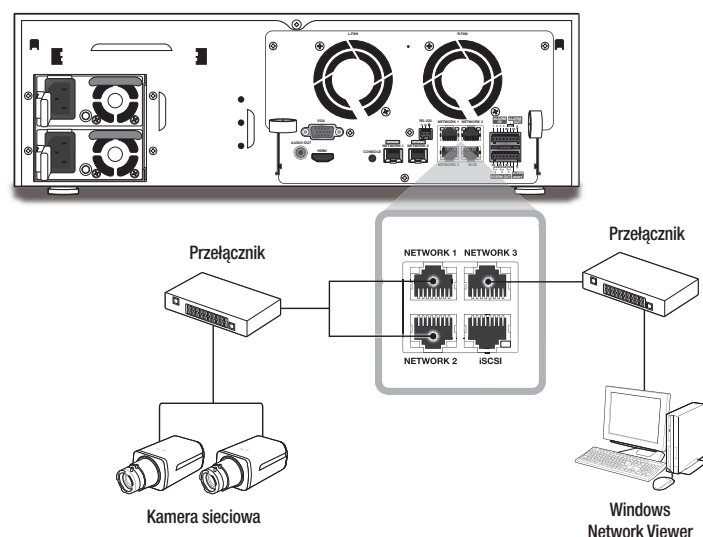
- ALARM IN 1 ~ 4 : Wejście alarmu
- ALARM RESET : Po odebraniu sygnału zerowania alarmu system anuluje bieżące dane wejściowe alarmu i przywraca wykrywanie.
- ALARM OUT 1 ~ 4 : Wyjście alarmu



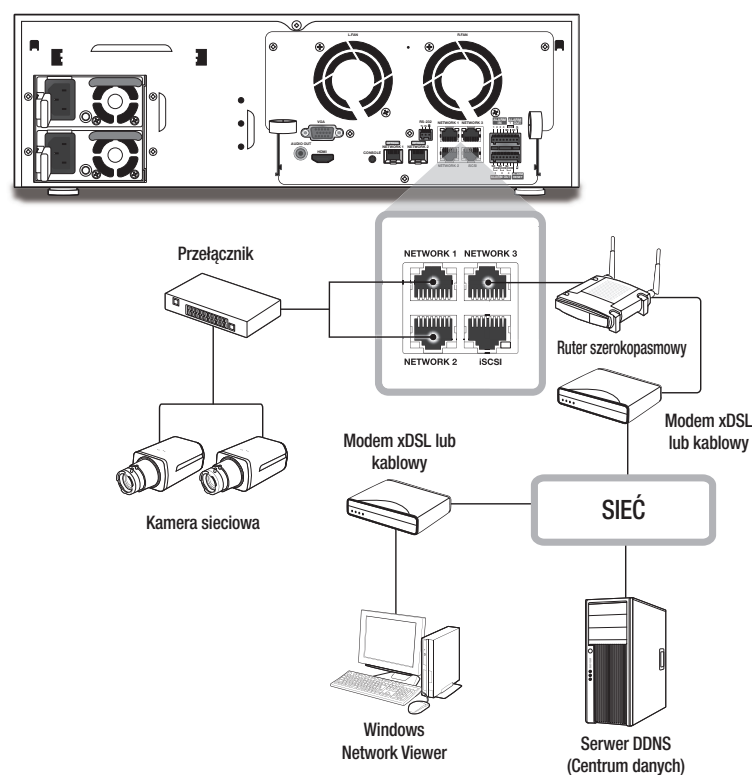
PODŁĄCZANIE DO SIECI

- Aby uzyskać więcej informacji na temat połączenia sieciowego, zobacz "Konfiguracja sieci" w Podręczniku Użytkownika Wisenet NVR.

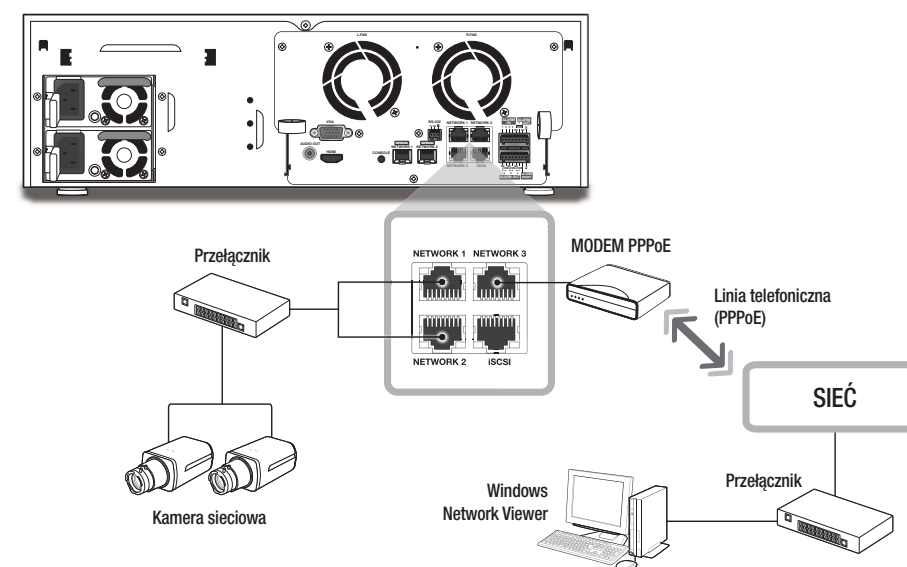
Połączenie sieciowe za pomocą kabla Ethernet (10/100/1000BaseT)



Połączenie sieciowe za pomocą routera

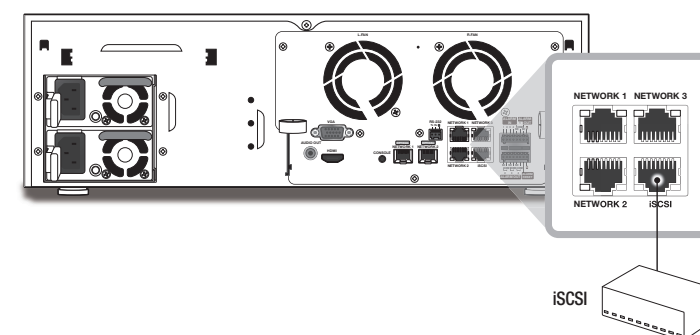


Podłączanie do Internetu przez PPPoE

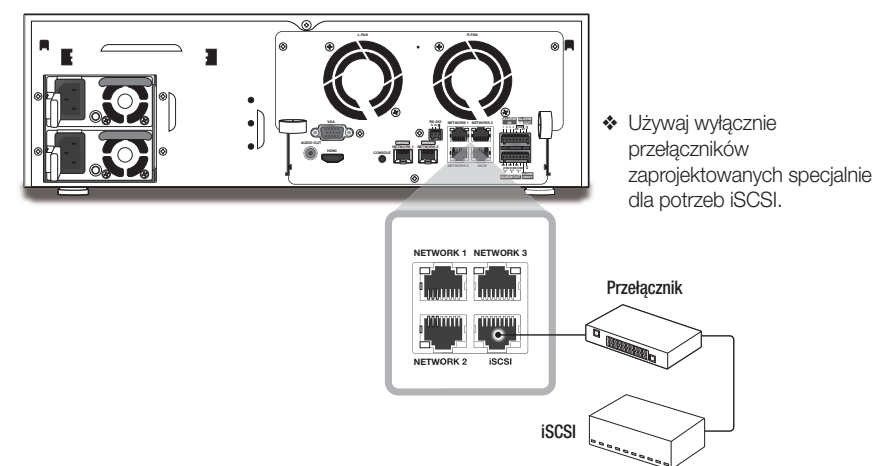


Łączenie z iSCSI

Łączenie bezpośrednie z NVR



Możesz użyć przełącznika do połączenia



Opcja		Szczegóły	
Wyświetlacz			
Kamera sieciowa	Wejścia	Maks. 64 kanały	
	Rozdzielczość	CIF ~ 12MP	
	Protokoły	Wisenet, ONVIF	
Na żywo	Wyświetlacz lokalny	1x HDMI / 1x VGA Dwa monitory	
	Wydajność	[Lokalny monitor] - 12M (30fps) - 8.3M(120fps) - 1080p(480fps) - 720P(960fps) - D1(1920fps)	
Wydajność			
System operacyjny	Wbudowany	Linux	
Nagrywanie	Kompresja	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Szerokość pasma nagrywania	Maks. 250 Mbps (Nie RAID)	Maks. 400 Mbps (RAID-5/6)
	Rozdzielczość	CIF ~ 12MP	
Wyszukiwanie i odtwarzanie	Pasmo odtwarzania	Maks. 32 Mbps (16ch jednocześnie)	
	Użytkownik	Maks. 4 użytkowników (1 lokalny, 3 zdalnych)	
	Odtwarzanie jednoczesne	Maks. 16 kanałów (Monitor lokalny, CMS)	
	Rozdzielczość	CIF ~ 12MP	
	Dewarping widoku rybiego oka	WEB / CMS	
	Sterowanie odtwarzaniem	Szybko/wolno Do przodu/do tyłu, Jeden krok w górę/Jeden krok w dół	
Pamięć masowa	Wbudowany	0TB ~ 8TB	
	Wewnętrzny HDD	12 (Maks. 96 TB, Tryb Non-RAID)	
	Zewnętrzna	Pamięć masowa iSCSI (Maks. 192TB)	
	RAID	RAID-5/6(Rozmiar macierzy : macierz 6-HDD dyski twarde x 2)	
Kopia zapasowa	Tworzenie kopii zapasowych plików	BU/Exe(GUI), JPG/AVI(Sieć)	
	Funkcja	Odtwarzanie wielokanałowe (do 16), Wyświetlanie daty/godziny/tytułu	

Opcja		Szczegóły
Czujnik	We/Wy	4/4 (NO/NC do wyboru)
Audio	Wejście	64 kanały (sieć)
	Kompresja	G.711, G.726, AAC(16/48KHz)
	Komunikacja dźwiękowa	2-kierunkowa
Sieć		
Interfejs		RJ-45(Gigabit Ethernet) x4, SFP x2
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 DDNS
Szerokość pasma transmisji		Maks. 400 Mbps
Maks. liczba użytkowników zdalnych		Wyszukiwanie (3)/Live Unicast (10)/Multicast (20)
Wersja IP		IPv4/v6
Zabezpieczenia		Filtrowanie adresów IP, Dziennik dostępu użytkowników, 802.1.2x, Szyfrowanie, sterowanie wymaga obecności dwóch osób
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		Window 7, 8, 10, Mac OS X(10.8 lub nowszy)
Przeglądarka internetowa		MS IE, Google Chrome, Mac Safari
Oprogramowanie do wyświetlania obrazów	Typ	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer
	Obsługa CMS	Obsługa pakietów SDK/CGI (SUNAPI) w celu integracji z VMS innych producentów
Funkcje		
PTZ	Sterowanie	Przez GUI, Przeglądarka, SPC-2000
	Preset	300 presetów
Smart Phone	Model obsługiwany	Android, iOS
	Obsługiwane protokoły	RTP, RTSP, HTTP, CGI (SUNAPI)
	Sterowanie	Live(16 kanały) : Obsługa wielu profili Odtwarzanie(1 kanały)
	Maks. liczba użytkowników zdalnych	Wyszukiwanie (3)/Live Unicast (10)

Opcja		Szczegóły
Nadmiarowość	Przeł awar	N+1
	ARB	Tak
Kontrola systemu		Myszka, sieć WWW, SPC-2000 (sterownik)
Wskaźnik/Interfejs		
Front	Wskaźnik	LED(Wskaźnik stanu) - HDD Działanie(12), RAID Status(1), Alarm(1), Zasilanie(1), Nagrywanie(1), Kop zap(1), Sieć(1)
Złącza	VGA	Pomocniczy: 1 EA (obsługa ekranu na żywo w trybie podziału na maksymalnie 32 ekranów)
	HDMI	Główny: 1 EA (obsługa trybu na żywo/PB/konfiguracji) - Obsługa rozdzielczości maks. 4K (3840 x 2160, tryb pojedynczego monitora, podział na 64 ekrany)
	Audio	Out (1EA, RCA, Line)
	Ethernet	RJ-45 4EA (LAN/WAN, 1Gbps), 1000M SFP 2ea
	Alarm	1) Wejście(4EA, Blok zacisku) 2) Zerowanie Alarmów(1EA) 3) Wyjście (4EA, Blok zacisku) - Wyjścia Przekazu1(NO/NC/COM) - Wyjścia Przekazu2~4(NO/COM)
	USB	2EA(Przód 2)
	Pam. masowa	iSCSI
	Numer seryjny	RS-232C
	Reset	Przełącznik (1EA)
	Kabel zasilania	2EA AC Inlet

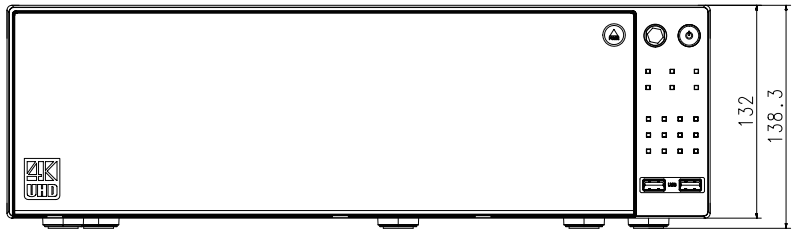
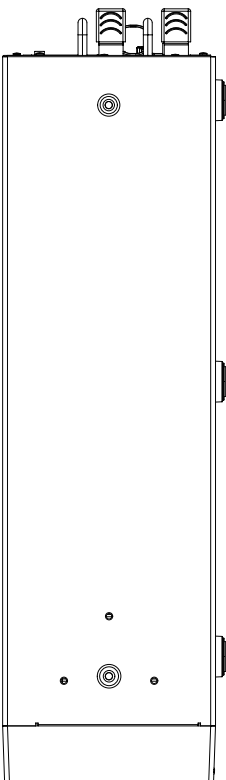
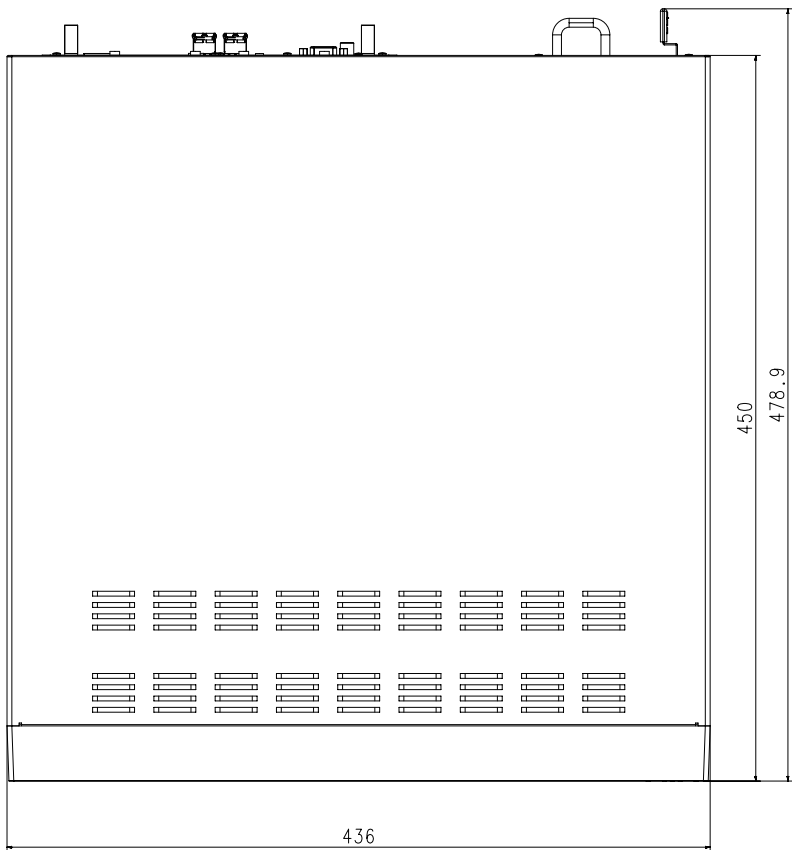
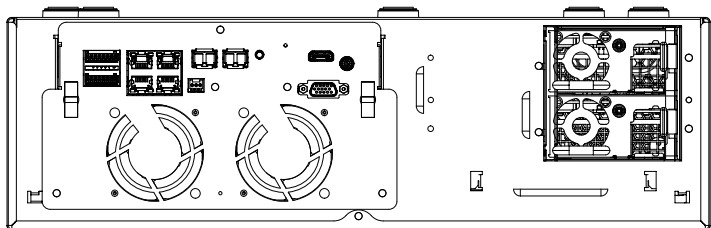
Opcja		Szczegóły
System		
Rejestr	Lista rejestrów	Maks. 20,000 każdy (Rejestr systemowy, Rejestr zdarzeń)
Środowiskowe		
Temperatura działania / Wilgotność		Od +0°C do +40°C (+32°F do +104°F)
Wilgotność		20% ~ 85% RH
Elektryczne		
Zasilanie		100 ~ 240 VAC ±10%; 50/60 Hz, 3~1.5A (Podwójny SMPS)
Pobór mocy		Maks. 250 W (853 BTU z dyskiem twardym 12ea)
Mechaniczne		
Kolor / materiał		Czarny / metalowy
Wymiary (szer. x głęb. x wys.)		szer. 436.0 x głęb. 132.0 x wys. 450.0mm (17.17" x 5.2" x 17.72") (3U)
Masa		ok. 11 Kg (24.3 lb, Zestaw nie zawiera dysków twardych)

Specyfikacja wydajności nagrywania dla warunków HDD

Jednostka: (Mb/s)

Metoda przechowywania danych	Rcv	Zapisz			Transmisja zdalna	Odtw.
		Wewnętrzny		iSCSI		
		Normalny	Odbudowa			
Wewnętrzny (RAID5)	400	400	320	300	300	32
Wewnętrzny (RAID6)	400	400	320	300	300	32
Pojedynczy dysk twardy	400	250	-	250	300	32
iSCSI	300	-	-	300	300	32

※ Wydajność pamięci masowej internetowej/iSCSI zależy od indywidualnego scenariusza użytkowania



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

For more details about Open Source, refer to the CD or Hanwha Website.

- **GPL Software:** bonnie++ 1.03e, busybox 1.23.2, dibbler 0.8.4, Linux Kernel 3.10.y, ethtool-3.11, lsscsi-0.28, memtester 4.0.5, mii-tool-1.8.11, mtd-utils-1.5.1, smartmontools-6.4, udhcp-0.9.8, wpa-supPLICant-0.7.3, xfsprogs-3.1.11, gdb-7.8.1, msmtP-1.4.21, parted-3.1, wget-1.18
- **LGPL Software:** ffmpeg-2.4.3, glibc 2.16, Live555, Qt 4.7.2
- **MPL 1.1:** npapi-sdk
- **BSD 2-Clause License:** FreeBSD
- **BSD 3-Clause License:** minipnpC-1.5-ppc, net-snmp-5.6.2.1, ppp-2.4.5, jquery.sha256, jsbn, libjpeg-turbo, lighttpd 1.4.35, msinttypes, requires, spherical++, sprintf 0.7, System-Verilog-Packet-Library, Text OpenGL Extension Wrangler Library 1.7.0
- **MIT License:** aptechcmSV2, 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 2.7.7
- **Apache 2.0 License:** RLLib
- **zlib/libpng License:** cximage, HIM NIS Edit, Nullsoft Scriptable Install System 2.46, PNG reference library, tinyxml 2.6.2, zlib 1.2.8
- **Boost Software License:** boost 1.57.0
- **Curl License:** curl 7.49.1
- **Microsoft Public License:** Minima, Text Designer Outline Text Library
- **Code Project Open 1.02 License:** CPPSQLite - 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, sipxptai
- **PHP License 3.01:** HPHp-2.1.0, PHP 5.6.33
- **OpenSSL Combined License:** openssl 1.0.2n
- **PCRE 5 License:** pcre 8.31
- **NTP License:** ntp 4.2.8p10
- **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, Qt 4.7.2, and npapi-sdk.

GNU General Public License (GPL)

Version 2, June 1991

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```

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3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5

4. [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes

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6. [7]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up rcvbuf and iosignal code into separate modules.

7. [8]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver

8. [9]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support

9. [10]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)

10. [11]Steve Clift <clift@ml.csiro.au> OMEGA clock driver

11. [12]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration

12. [13]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

13. [14]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port

14. [15]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port

15. [16]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119

16. [17]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

17. [18]Mike Iglesias <iglesias@uci.edu> DEC Alpha port

18. [19]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port

19. [20]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul

20. [21]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [22]<H.Lambermont@chello.nl> ntpswEEP

21. [23]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)

22. [24]Frank Kardel [25]<Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup

23. [26]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HP/UX modifications

24. [27]Dave Katz <dkatz@cisco.com> RS/6000 AIX port

25. [28]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

26. [29]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

27. [30]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

28. [31]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

29. [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

30. [33]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port

31. [34]Jeffrey Mogul <mogul@pa.dec.com> ntpttrace utility

32. [35]Tom Moore <tmoore@fivel.daytonoh.ncr.com> i386 svr4 port

33. [36]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

34. [37]Derek Mulcahy <derek@toybox.demon.co.uk> and [38]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

35. [39]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

36. [40]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

37. [41]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo

38. [42]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

39. [43]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

40. [44]Ray Schnitzler <schnitz@unipress.com> Unixware1 port

41. [45]Michael Shields <shields@tembel.org> USNO clock driver

42. [46]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

43. [47]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

44. [48]Kenneth Stone <ken@sdd.hp.com> HP-UX port

45. [49]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

46. [50]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

47. [51]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

48. [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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51. mailto:vixie@vix.com

52. mailto:Ulrich.Windl@rz.uni-regensburg.de

53. file://localhost/backroom/ntp-stable/html/index.htm

54. mailto:mills@udel.edu

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Na wszystkich etapach produkcji firma Hanwha Techwin dba o środowisko naturalne i wykonuje 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 swoim 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 obszaru 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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