

**WISENET**

# **KAMERA SIECIOWA**

Instrukcja obsługi

XND-L6080R/XND-L6080RV/XND-L6080V

XNO-L6080R

XNV-L6080/XNV-L6080R



# Kamera Sieciowa

## Instrukcja obsługi

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### 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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### Wyłączenie odpowiedzialności

Firma Hanuha Techwin przedsięwzięła wszelkie wysiłki, aby zapewnić spójność i poprawność treści niniejszej publikacji, ale nie zapewnia formalnych gwarancji. Użytkownik bierze pełną odpowiedzialność za stosowanie tego dokumentu i wyniki rezultaty. Firma Hanuha Techwin zastrzega sobie prawo do zmiany treści tego dokumentu bez uprzedzenia.

- ❖ Konstrukcja i dane techniczne urządzenia mogą ulec zmianie bez powiadomienia.
- ❖ Początkowym ID administratora jest "admin" a hasło powinno zostać ustawione podczas pierwszego logowania.  
Dla zabezpieczenia informacji i zapobieżenia szkodom, hasło należy zmieniać co trzy miesiące.  
Proszę pamiętać, że odpowiedzialność za bezpieczeństwo i wszelkie szkody wynikające z braku dbałości o hasło.

## WAŻNE ZALECENIA DOTYCZĄCE BEZPIECZEŃSTWA

- Należy przeczytać poniższe zalecenia.
- Należy zachować je do wglądu.
- Należy przeczytać wszystkie ostrzeżenia.
- Należy przestrzegać wszystkich zaleceń.
- Nie używać urządzenia w pobliżu wody.
- Zabrudzoną powierzchnię produktu wyczyść 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).
- Nie blokować żadnych otworów wentylacyjnych. Montować zgodnie z instrukcją producenta.
- Nie montować w pobliżu źródeł ciepła takich jak grzejniki, kratki nagrzewnic lub innych urządzeń (w tym wzmacniaczy emitujących ciepło).
- Nie lekceważyć zabezpieczenia wynikającego ze stosowania wtyczek spolaryzowanych lub z uziemieniem. Wtyczka spolaryzowana ma dwa bolce, z których jeden jest szerszy od drugiego. Wtyczka z uziemieniem ma trzy bolce, z czego jeden jest uziemiający. Szerszy lub odpowiednio trzeci bolec stosuje się w celu zapewnienia bezpieczeństwa. Jeśli dostarczona wtyczka nie pasuje do gniazda, skontaktuj się z elektrykiem w celu wymiany przestarzałego gniazda.
- Przewód zasilający przy wtyczkach, oprawach oraz w miejscach, gdzie wystają one z urządzenia należy zabezpieczyć przed możliwością nadeptnięcia lub przyciśnięcia.
- Używać wyłącznie elementów dodatkowych/akcesoriów zalecanych przez producenta.
- Kamery należy używać tylko z wózkiem, podstawą, statywem, uchwytem lub stołem zalecanym przez producenta lub sprzedawanym z kamerą. W przypadku użycia wózka podczas przemieszczania zestawu wózek-urządzenie należy zachować ostrożność, aby uniknąć obrażeń spowodowanych jego wywróceniem.
- W czasie burzy z wyładowaniami atmosferycznymi lub w przypadku nieużywania urządzenia przez dłuższy czas należy odłączyć urządzenie od zasilania.
- Wszelkie naprawy należy zlecać wykwalifikowanemu personelowi serwisu. Naprawy są konieczne gdy urządzenie zostało uszkodzone w jakikolwiek sposób, np. gdy uszkodzony jest przewód zasilający lub wtyczka, do środka urządzenia przedostał się płyn lub ciała obce, urządzenie miało kontakt z deszczem lub wilgocią, nie funkcjonuje normalnie lub spadło.
- Użycie zbyt dużej siły podczas instalacji produktu może doprowadzić do uszkodzenia i nieprawidłowego działania kamery. Instalacja produktu przy użyciu siły i nieodpowiednich narzędzi może doprowadzić do jego uszkodzenia.
- Produktu nie należy instalować w miejscu, w którym mogą występować lub powstawać substancje chemiczne lub mgły olejowe. Oleje jadalne, takie jak olej sojowy, mogą uszkodzić lub odkształcić produkt, w związku z czym nie należy instalować go w kuchni lub w pobliżu blatu kuchennego. W przeciwnym razie produkt może ulec uszkodzeniu.
- Podczas instalacji produktu należy uważać, aby jego powierzchnia nie została zabrudzona substancjami chemicznymi. Niektóre substancje chemiczne zawierające rozpuszczalniki lub kleje mogą powodować poważne uszkodzenie powierzchni produktu.
- W przypadku instalacji lub demontażu produktu w sposób inny niż zalecany nie można zagwarantować prawidłowego działania funkcji i wydajności produktu. Zainstaluj produkt, zapoznając się z rozdziałem „Instalacja i podłączanie (Installation and connection)” w podręczniku użytkownika.
- Instalacja lub eksploatacja produktu w wodzie może doprowadzić do jego poważnego uszkodzenia.



## OSTRZEŻENIE

ABY ZMNIJSZYĆ RYZYKO POŻARU LUB PORAŻENIA PRADEM ELEKTRYCZNYM, NIE NALEŻY WYSTAWIAĆ URZĄDZENIA NA DZIAŁANIE WODY ANI WILGOCI. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

Nie należy narażać urządzenia na kapanie lub rozlewanie płynów. Na urządzeniu nie należy stawiać przedmiotów wypełnionych cieczą np. wazonów.

Aby zapobiec obrażeniom, urządzenie należy dobrze przymocować do ściany/sufitu, zgodnie z instrukcjami montażu.

## UWAGA

	<b>UWAGA</b> NIEBEZPIECZEŃSTWO PORAŻENIA PRADEM. NIE OTWIERAĆ	
<b>UWAGA : ABY ZMNIJSZYĆ RYZYKO PORAŻENIA PRADEM NIE USUWAĆ OBUDOWY (ANI CZĘŚCI TYLNEJ). NIE MA CZĘŚCI PRZEZNACZONYCH DO NAPRAWY PRZEZ UŻYTKOWNIKA. NALEŻY SKONTAKTOWAĆ SIĘ Z WYKWALIFIKOWANYM PERSONELEM SERWISU.</b>		

## WYJAŚNIENIE SYMBOLI GRAFICZNYCH



Równoboczny trójkąt ostrzegawczy ze znakiem błyskawicy zakończoną strzałką przestrzega przed “niebezpiecznym napięciem” wewnątrz urządzenia, które może mieć wystarczająco wysokie natężenie, aby stanowić zagrożenie porażenia prądem elektrycznym.



Trójkąt równoboczny z wykrzyknikiem to symbol wskazujący, że dokumentacja dołączona do urządzenia zawiera ważne instrukcje dotyczące obsługi i konserwacji (serwisowania).

## Klasa I konstrukcji

Urządzenie z konstrukcją KLASA I należy podłączać do gniazda SIECI ELEKTRYCZNEJ za pomocą zabezpieczonych przewodów uziemiających.

## Akumulator

Akumulatorów (znajdującego się w urządzeniu zestawu akumulatorów lub akumulatora) nie należy wystawiać na działanie zbyt wysokiej temperatury, np. promieni słonecznych, ognia itp.

Nie można wymienić baterii.

## Odlączenie urządzenia

Jeśli urządzenie jest uszkodzone, odłącz je z sieci zasilającej. Wezwij także lokalnego technika serwisowego.

**Jeśli urządzenie jest używane poza granicami Stanów Zjednoczonych, może być stosowane ze wtyczkami z kodami atestów odpowiednich urzędów.**

## UWAGA

Poniższe instrukcje serwisowania są przeznaczone wyłącznie na użytek wykwalifikowanych pracowników serwisu.

Ze względu na zagrożenie porażeniem prądem elektrycznym osoby nieposiadające odpowiednich kwalifikacji nie powinny wykonywać czynności serwisowych innych niż opisane w poniższej instrukcji.

Terminal CVBS służy łatwiejszej instalacji oraz nie jest zalecany dla celów monitoringu.

Należy doprowadzać zasilanie wejściowe tylko do jednej kamery i nie należy do niego podłączać innych urządzeń.

**ITE należy podłączać tylko do sieci PoE bez trasowania do zewnętrznego zakładu.**

Należy uważnie przeczytać poniższe zasady bezpieczeństwa.

- Nie należy umieszczać tego urządzenia na nierównej powierzchni.
- Urządzenia nie należy instalować na powierzchni wystawionej bezpośrednio na działanie promieni słonecznych, w pobliżu grzejników lub w miejscach o bardzo niskiej temperaturze.
- Nie umieszczać urządzenia w pobliżu materiałów przewodzących.
- Nie należy samodzielnie podejmować prób naprawy urządzenia.
- Na urządzeniu nie należy stawiać pojemników z wodą.
- Produktu nie należy instalować w pobliżu urządzeń emitujących pola magnetyczne.
- Nie zasłaniać otworów wentylacyjnych.
- Na urządzeniu nie należy kłaść ciężkich przedmiotów.
- Podczas instalacji i demontażu kamery należy używać rękawic ochronnych. Wysoka temperatura powierzchni produktu może spowodować poparzenia ciała.

Instrukcja obsługi zawiera wytyczne dotyczące użytkowania produktu.

W niniejszej instrukcji obsługi informacje są oznaczone jako.

- Informacje dodatkowe : wytyczne dotyczące użytkowania produktu
  - Uwaga : informacje o występowaniu ryzyka uszkodzenia produktu lub obrażenia użytkownika w wyniku nieprzestrzegania instrukcji
- ※ W celu zapewnienia bezpieczeństwa przed rozpoczęciem korzystania z urządzenia należy zapoznać się z poniższą instrukcją obsługi i przechowywać ją w bezpiecznym miejscu.

W niektórych środowiskach montażowych mogą wystąpić zakłócenia w komunikacji radiowej. W przypadku wystąpienia zakłóceń fal elektromagnetycznych między produktem a urządzeniem komunikacji radiowej zaleca się zachowanie pewnej odległości między nimi lub zmianę kierunku anteny odbiorczej.

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## ZALECANE SPECYFIKACJE KOMPUTERA PC

- Procesor: Intel(R) Core(TM) i7 3.4 GHz lub wyższy
- Pamięć RAM: 8 GB lub więcej
- Obsługiwany system operacyjny: MS Windows, Mac OS X

### • Przeglądarka Web Viewer

Zalecana przeglądarka: Google Chrome

Obsługiwane przeglądarki: MS Edge, MS IE, Firefox (tylko 64-bitowa wersja systemu Windows), Apple Safari (tylko system Mac OSX)

Działanie niektórych funkcji może być ograniczone nawet w przypadku obsługiwanych przeglądarek.

## SPECYFIKACJA ZALECANYCH KART PAMIĘCI MICRO SD/SDHC/SDXC

- Zalecana pojemność: Zalecana pojemność: od 16 do 256 GB (typ MLC)
- W przypadku tej kamery zalecane są następujące typy kart pamięci następujących producentów.
  - Producent: SanDisk, Transcend
  - Rodzina produktów: karty o dużej odporności

## SPECYFIKACJA ZALECANA PRZEZ NAS

- Zalecana pojemność: Zalecane jest 200GB lub więcej.
- Dostęp jednoczesny: Jednostka NAS może przyjąć do szesnastu dostępów do kamery.
- Dla tej kamery zalecane jest wykorzystanie NAS z następującą specyfikacją fabryczną.








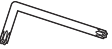
Zalecane produkty	Dostępne rozmiary
QNAP NAS	Dostęp jednoczesny dla maksimum 16 kamer.
Synology NAS	Dostęp jednoczesny dla maksimum 16 kamer.




- Wykorzystanie urządzeń NAS dla celów innych niż zapis video może spowodować zmniejszenie dostępnej liczby kamer.

## CO ZNAJDUJE SIĘ W OPAKOWANIU (XND-L6080R/L6080RV/L6080V)








Należy sprawdzić, czy w opakowaniu znajduje się kamera oraz wszystkie akcesoria.  
(Akcesoria nie są identyczne i zależą od kraju sprzedaży)





Wygląd	Nazwa elementu	Liczba	Opis	Nazwa modelu	
	Kamera	1		XND-L6080R	
		1		XND-L6080RV/ L6080V	
	Skrócona instrukcja obsługi (Opcjonalny)	1		Zastosować w przypadku wszystkich modeli	
	Karta gwarancyjna (Opcjonalny)	1			
	Przewód monitora sprawdzającego	1	Służy do sprawdzania kamery poprzez podłączenie do przenośnego wyświetlacza		
	Szablon	1	Instrukcja montażu urządzenia		
	Wkręt samogwintujący	2	Służy do montażu na suficie lub na ścianie.		
	Klucz imbusowy	1	wykorzystywany do zdejmowania i wymiany kopuły.		XND-L6080RV/ L6080V

Wygląd	Nazwa elementu	Liczba	Opis	Nazwa modelu
<b>Opcje (kupowane osobno)</b>				
	Obudowa wpuszczana do montażu wewnątrz pomieszczeń		Obudowa do montażu ściennego wewnątrz pomieszczeń.	Zastosować w przypadku wszystkich modeli

## CO ZNAJDUJE SIĘ W OPAKOWANIU (XNO-L6080R)

Należy sprawdzić, czy w opakowaniu znajduje się kamera oraz wszystkie akcesoria.  
(Akcesoria nie są identyczne i zależą od kraju sprzedaży)







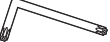
Wygląd	Nazwa elementu	Liczba	Opis
	Kamera	1	
	Skrócona instrukcja obsługi (Opcjonalny)	1	
	Karta gwarancyjna (Opcjonalny)	1	
	Przewód monitora sprawdzającego	1	Służy do sprawdzania kamery poprzez podłączenie do przenośnego wyświetlacza
	Szablon	1	Instrukcja montażu urządzenia
	Klucz imbusowy	1	wykorzystywany do zdejmowania i wymiany kopuły.
	Wkręt samogwintujący	3	Służy do montażu na suficie lub na ścianie.






Wygląd	Nazwa elementu	Liczba	Opis
	Osłona przeciwsłoneczna	1	Ochronia kamerę przed bezpośrednim nasłonecznieniem.
	Śruba mocująca osłonę przeciwsłoneczną	1	Umożliwia zamocowanie na kamerze osłony przeciwsłonecznej.
	Akcesorium wodoodporne RJ45	1	Do montażu w wilgotnych miejscach
	Podręcznik instalacji wodoszczelnego akcesorium RJ45	1	



## CO ZNAJDUJE SIĘ W OPAKOWANIU (XNV-L6080/L6080R)

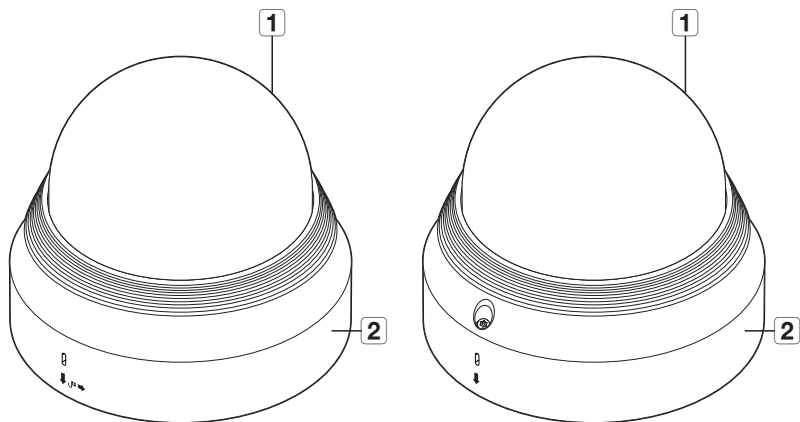
Należy sprawdzić, czy w opakowaniu znajduje się kamera oraz wszystkie akcesoria.  
(Akcesoria nie są identyczne i zależą od kraju sprzedaży)

Wygląd	Nazwa elementu	Liczba	Opis
	Kamera	1	
	Skrócona instrukcja obsługi (Opcjonalny)	1	
	Karta gwarancyjna (Opcjonalny)	1	
	Przewód monitora sprawdzającego	1	Służy do sprawdzania kamery poprzez podłączenie do przenośnego wyświetlacza
	Szablon	1	Instrukcja montażu urządzenia
	Wkręt samogwintujący	3	Służy do montażu na suficie lub na ścianie.
	Klucz imbusowy	1	wykorzystywany do zdejmowania i wymiany kopuły.

Wygląd	Nazwa elementu	Liczba	Opis
	Plastikowa obsadka	3	Służy do wkręcania śruby w otwór (dodatkowe zabezpieczenie śruby)
	Śruby	3	Używane do montażu obudowy kopuły w przypadku instalacji produktu na rurze, uchwycie ściennym itd. lub w przypadku blokowania otworu.
	Element pochłaniający wilgoć w kształcie karty	1	Podłączany po zainstalowaniu.
	Nasadka montażowa	1	Używana podczas podłączania przewodu RJ45
<b>Opcje (kupowane osobno)</b>			
	Obudowa wpuszczana do montażu wewnątrz pomieszczeń		Obudowa do montażu ściennego wewnątrz pomieszczeń.

SPOJRZENIE NA KAMERĘ (XND-L6080R/L6080RV/L6080V)

Wygląd

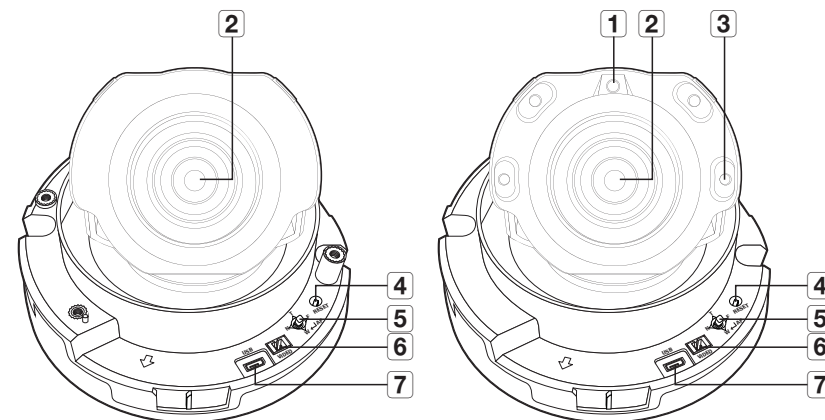


<XND-L6080R>

<XND-L6080RV/L6080V>

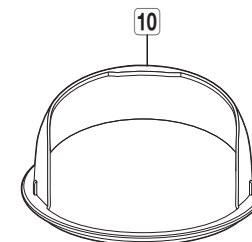
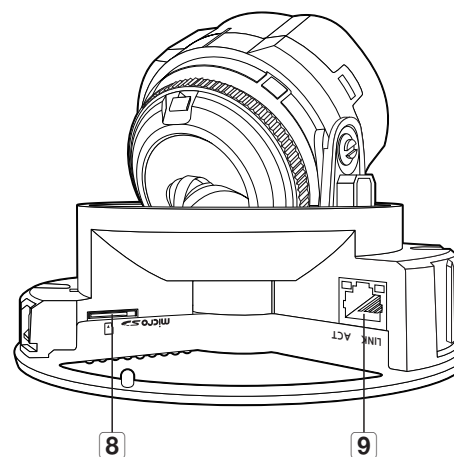
Element	Opis
<b>1</b> Pokrywa kopułkowa	Ostona chroniąca obiektyw i urządzenie główne.
<b>2</b> Obudowa kamery	Część obudowy osłaniająca główną część urządzenia.

Komponentowy



<XND-L6080V>

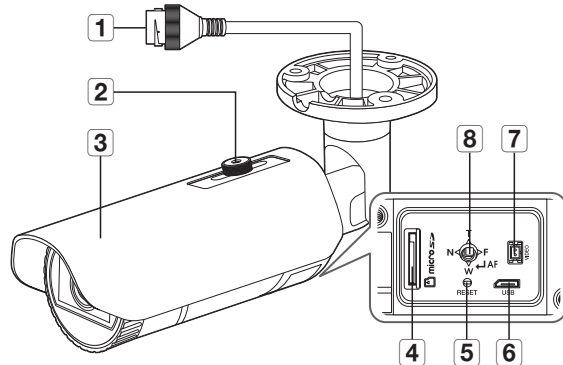
<XND-L6080R/L6080RV>



Element	Opis	
<b>1</b> Czujnik oświetlenia	Wykrywa natężenie światła i steruje diodą podczerwieni.	
<b>2</b> Obiektyw	Obiektyw kamery.	
<b>3</b> Dioda podczerwieni	Diody podczerwieni są sterowane za pomocą czujnika oświetlenia.	
<b>4</b> Przycisk Reset	Ten przycisk przywraca wszystkie ustawienia kamery do wartości domyślnych. Naciśnij i przytrzymaj przez około 5 sekund, aby uruchomić system ponownie. <b>I</b> W przypadku zresetowania kamery ustawienia sieciowe zostaną dostosowane tak, aby możliwe było włączenie protokołu DHCP. Jeśli w sieci nie ma serwera DHCP, należy uruchomić program Device Manager, aby zmienić podstawowe ustawienia sieciowe, takie jak adres IP, maska podsieci, brama itp., zanim będzie można połączyć się z siecią.	
<b>5</b> Przycisk Zoom/Ostrość	T	Zoom in (Tele)
	W	Zoom out (Szeroki)
	N	Ostrość na bliski przedmiot (Blisko)
	F	Ostrość na daleki przedmiot (Daleko)
	Ustawienia ostrości	Przucisnąć aby włączyć ogniskowanie automatyczne.
<b>6</b> Wyjście sygnału testowego monitora	Port wyjścia służący do testowego monitoringu wyjścia wideo. Przy użyciu przewodu testowego monitora podłącz do przenośnego wyświetlacza i sprawdź testowy obraz wideo.	
<b>7</b> Port MICRO USB	Port umożliwiający podłączenie klucza sprzętowego WiFi. Wideo przedstawiające instalację można odtworzyć za pośrednictwem aplikacji zainstalowanych w smartfonie. Więcej informacji zawiera rozdział „ <b>Podłączenie klucza WiFi</b> ” na stronie 22. <ul style="list-style-type: none"> <li>■ Klucz WiFi i adapter OTG są sprzedawane osobno.</li> </ul>	
<b>8</b> Komora karty pamięci Micro SD	Komora na kartę pamięci Micro SD.	
<b>9</b> Złącze PoE	Umożliwia nawiązanie połączenia z siecią i dostarcza zasilanie za pośrednictwem przewodu Ethernet.	
<b>10</b> Pokrywa wewnętrzna	Pokrywa ochronna głównego korpusu.	

## SPOJRZENIE NA KAMERĘ (XNO-L6080R)

### Wygląd & Komponentowy

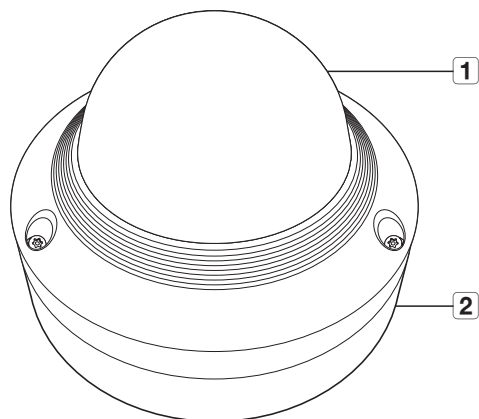


Element	Opis
<b>1</b> Złącze PoE	Umożliwia nawiązanie połączenia z siecią i dostarcza zasilanie za pośrednictwem przewodu Ethernet.
<b>2</b> Śruba mocująca osłonę przeciwsłoneczną	Umożliwia zamocowanie na kamerze osłony przeciwsłonecznej.
<b>3</b> Osłona przeciwsłoneczna	Ochronia kamerę przed bezpośrednim nasłonecznieniem.
<b>4</b> Gniazdo kart Micro SD	To jest gniazdo, w którym można umieścić kartę Micro SD.
<b>5</b> Przycisk Reset	Ten przycisk przywraca wszystkie ustawienia kamery do wartości domyślnych. Naciśnij i przytrzymaj przez około 5 sekund, aby uruchomić system ponownie. ■ W przypadku zresetowania kamery ustawienia sieciowe zostaną dostosowane tak, aby możliwe było włączenie protokołu DHCP. Jeśli w sieci nie ma serwera DHCP, należy uruchomić program Device Manager, aby zmienić podstawowe ustawienia sieciowe, takie jak adres IP, maska podsieci, brama itp., zanim będzie można połączyć się z siecią.
<b>6</b> MICRO USB Port	Port für den Anschluss von WiFi-Dongles. Sie können das Installationsvideo über die auf dem Smartphone installierten Anwendungen überprüfen. <b>"Verbinden mit WiFi-Dongle"</b> Siehe auf Seite 22. ■ Klucz WiFi i adapter OTG są sprzedawane osobno.

Element	Opis	
<b>7</b> Wyjście sygnału testowego monitora	Port wyjścia służący do testowego monitoringu wyjścia wideo. Przy użyciu przewodu testowego monitora podłącz do przenośnego wyświetlacza i sprawdź testowy obraz wideo.	
<b>8</b> Przycisk Zoom/Ostrość	T	Zoom in (Tele)
	W	Zoom out (Szeroki)
	N	Ostrość na bliski przedmiot (Blisko)
	F	Ostrość na daleki przedmiot (Daleko)
	Ustawienia ostrości	Przycisnąć aby włączyć ogniskowanie automatyczne.

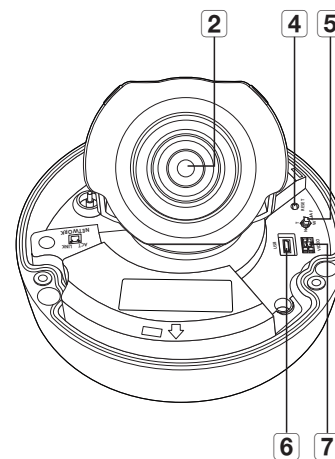
## SPOJRZENIE NA KAMERĘ (XNV-L6080/L6080R)

Wygląd

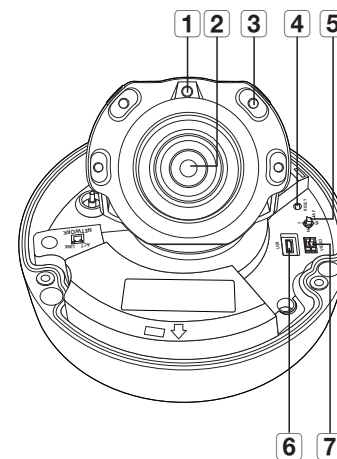


Element	Opis
<b>1</b> Pokrywa kopułkowa	Oslona chroniąca obiektyw i urządzenie główne.
<b>2</b> Obudowa kamery	Część obudowy osłaniająca główną część urządzenia.

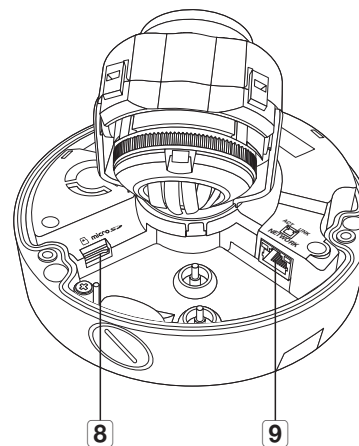
Komponentowy



<XNV-L6080>



<XNV-L6080R>



Element	Opis	
<b>1</b> Czujnik oświetlenia	Wykrywa natężenie światła i steruje diodą podczerwieni.	
<b>2</b> Obiektyw	Obiektyw kamery.	
<b>3</b> Dioda podczerwieni	Diody podczerwieni są sterowane za pomocą czujnika oświetlenia.	
<b>4</b> Przycisk Reset	<p>Ten przycisk przywraca wszystkie ustawienia kamery do wartości domyślnych. Naciśnij i przytrzymaj przez około 5 sekund, aby uruchomić system ponownie.</p> <p><b>I</b> W przypadku zresetowania kamery ustawienia sieciowe zostaną dostosowane tak, aby możliwe było włączenie protokołu DHCP. Jeśli w sieci nie ma serwera DHCP, należy uruchomić program Device Manager, aby zmienić podstawowe ustawienia sieciowe, takie jak adres IP, maska podsieci, brama itp., zanim będzie można połączyć się z siecią.</p>	
<b>5</b> Przycisk Zoom/Ostrość	T	Zoom in (Tele)
	W	Zoom out (Szeroki)
	N	Ostrość na bliski przedmiot (Blisko)
	F	Ostrość na daleki przedmiot (Daleko)
	Ustawienia ostrości	Przucisnąć aby włączyć ogniskowanie automatyczne.
<b>6</b> MICRO USB port	<p>Port umożliwiający podłączenie klucza sprzętowego WiFi.</p> <p>Wideo przedstawiające instalację można odtworzyć za pośrednictwem aplikacji zainstalowanych w smartfonie.</p> <p>Więcej informacji zawiera rozdział „<b>Podłączenie klucza WiFi</b>” na stronie 22.</p> <ul style="list-style-type: none"> <li>■ Klucz WiFi i adapter OTG są sprzedawane osobno.</li> </ul>	
<b>7</b> Wyjście sygnału testowego monitora	Port wyjścia służący do testowego monitoringu wyjścia wideo. Przy użyciu przewodu testowego monitora podłącz do przenośnego wyświetlacza i sprawdź testowy obraz wideo.	
<b>8</b> Komora karty pamięci Micro SD	Komora na kartę pamięci Micro SD.	
<b>9</b> Złącze PoE	Umożliwia nawiązanie połączenia z siecią i dostarcza zasilanie za pośrednictwem przewodu Ethernet.	

## INSTALACJA (XND-L6080R)

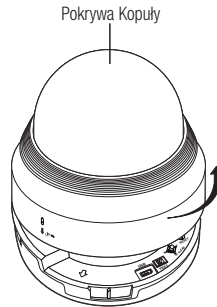
### Środki ostrożności przed montażem

Przed przystąpieniem do montażu kamery należy przeczytać poniższe instrukcje:

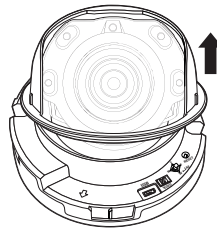
- Umieścić w miejscu (sufit lub ściana), które wytrzyma pięciokrotny ciężar kamery z uchwytem instalacyjnym.
- Zmiażdżone lub "gole" przewody mogą być przyczyną uszkodzenia urządzenia lub pożaru.
- Ze względów bezpieczeństwa nie należy dopuszczać innych osób w pobliżu miejsca montażu. Na wszelki wypadek należy również odsunąć rzeczy osobiste personelu.
- Użycie zbyt dużej siły podczas instalacji produktu może doprowadzić do nieprawidłowego działania kamery i w konsekwencji jej uszkodzenia. Montaż przy użyciu siły i nieodpowiednich narzędzi może doprowadzić do uszkodzenia produktu.

### Demontaż

1. Aby odłączyć, jedną ręką przytrzymać dolną część kamery i przekręcić pokrywę w lewo drugą ręką.

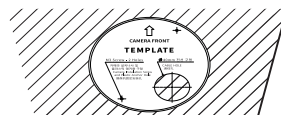


2. Aby odłączyć podnieść pokrywę wewnętrzną.

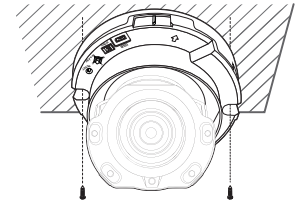


### Instalacja

1. Umieść szablon montażowy, zwracając uwagę na kierunek monitorowania, a następnie wywierć otwór zaznaczony na szablonie.
  - Ustawić kamerę tak aby oznaczenie <↑> było skierowane w stronę monitorowanego obszaru.

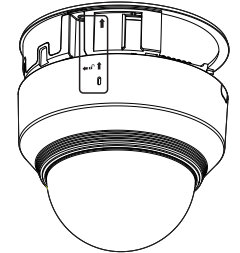


2. Przykręć kamerę przy użyciu dołączonego do zestawu wkrętu samogwintującego.
3. Podłączyć kamerę do terminala wewnętrznego za pomocą odpowiedniego kabla.
4. Ustaw żądany kierunek obiektywu zgodnie ze wskazówkami zawartymi w rozdziale **"Regulacja kierunku monitorowania kamery"**. (Strona 20)

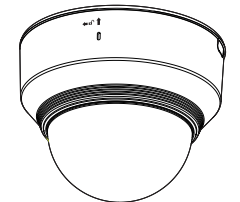
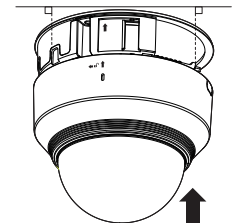


- ! Zalecamy powstrzymanie się przed manipulacjami przy obiektywie. Ostrość została ustawiona fabrycznie. Obiektyw może utracić ostrość bądź ulec zabrudzeniu.

5. Połącz pokrywę wewnętrzną z korpusem głównym.
6. Przytrzymując dolną część kamery w dłoni, weź pokrywę w drugą dłoń i wciśnij ją tak, aby dwa symbole strzałki pokrywały się ze sobą, jak pokazano na ilustracji.



- ! Podczas podłączania pokrywki kopułki strzałki ustaw zgodnie i połącz je prostopadle do korpusu głównego. Jeśli pokrywka kopułki zostanie podłączona nieprawidłowo, osłona wokół obiektywu może ulec zniekształceniu, co spowoduje rozpraszanie refleksów świetlnych. Mocno przykręć pokrywę kopułki. Jeśli pokrywka kopułki nie zostanie obrócona lub nie będzie zmontowana prawidłowo, mogą powstawać rozproszone refleksy świetlne lub elementy wokół obiektywu mogą przemieścić się i zmienić zakres kąta widzenia.
- Upewnij się, że pokrywka kopuły jest prawidłowo połączona z częścią dolną, jak pokazano na rysunku. Jeśli zatrzask nie jest podłączony prawidłowo, pokrywka kopuły może odpaść, co może doprowadzić do obrażeń ciała.



## INSTALACJA (XND-L6080RV/L6080V)

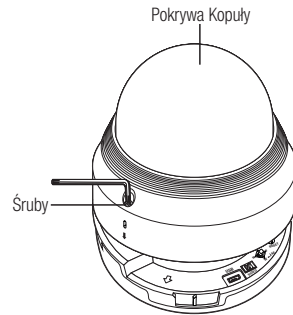
### Środki ostrożności przed montażem

Przed przystąpieniem do montażu kamery należy przeczytać poniższe instrukcje:

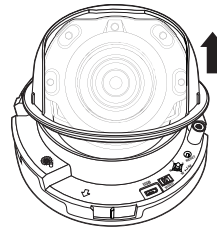
- Umieścić w miejscu (sufit lub ściana), które wytrzyma pięciokrotny ciężar kamery z uchwytem instalacyjnym.
- Zmiażdżone lub "gole" przewody mogą być przyczyną uszkodzenia urządzenia lub pożaru.
- Ze względów bezpieczeństwa nie należy dopuszczać innych osób w pobliżu miejsca montażu. Na wszelki wypadek należy również odsunąć rzeczy osobiste personelu.
- Użycie zbyt dużej siły podczas instalacji produktu może doprowadzić do nieprawidłowego działania kamery i w konsekwencji jej uszkodzenia. Montaż przy użyciu siły i nieodpowiednich narzędzi może doprowadzić do uszkodzenia produktu.

### Demontaż

1. Aby zdemontować pokrywę kopułkową, odkręć śrubę mocującą przy użyciu dołączonego do zestawu klucza w kształcie litery L, wykonując obroty przeciwnie do ruchu wskazówek zegara.

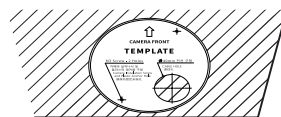


2. Aby odłączyć podnieść pokrywę wewnętrzną.

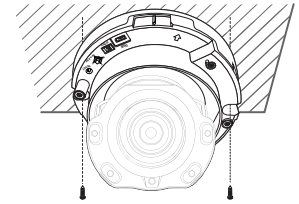


### Instalacja

1. Umieścić szablony montażowy, zwracając uwagę na kierunek monitorowania, a następnie wywierć otwór zaznaczony na szablonie.
  - Ustawić kamerę tak aby oznaczenie <img alt="arrow icon"/> było skierowane w stronę monitorowanego obszaru.



2. Przykręć kamerę przy użyciu dołączonego do zestawu wkrętu samogwintującego.
3. Podłączyć kamerę do terminala wewnętrznego za pomocą odpowiedniego kabla.
4. Ustaw żądany kierunek obiektywu zgodnie ze wskazówkami zawartymi w rozdziale **"Regulacja kierunku monitorowania kamery"**. (Strona 20)

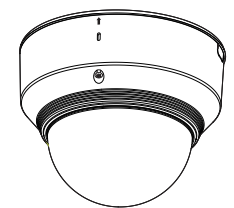
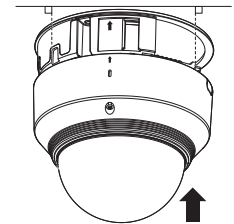
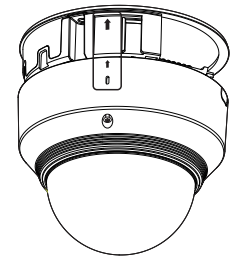
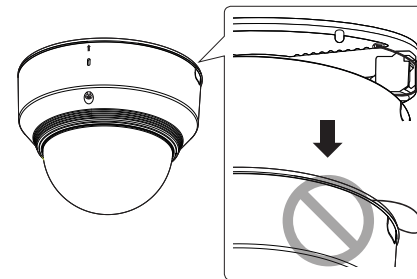


- ! ▪ Zalecamy powstrzymanie się przed manipulacjami przy obiektywie. Ostrość została ustawiona fabrycznie. Obiektyw może utracić ostrość bądź ulec zabrudzeniu.

5. Połącz pokrywę wewnętrzną z korpusem głównym.
6. Chwyć spód kamery jedną dłoń, a pokrywę drugą. Następnie ustaw strzałki zgodnie i przykręć elementy przy użyciu klucza imbusowego.

- ! ▪ Podczas podłączania pokrywy kopułki strzałki ustaw zgodnie i połącz je prostopadłe do korpusu głównego. Jeśli pokrywa kopułki zostanie podłączona nieprawidłowo, osłona wokół obiektywu może ulec zniekształceniu, co spowoduje rozpraszanie refleksów świetlnych. Mocno przykręć pokrywę kopułki. Jeśli pokrywa kopułki nie zostanie obrócona lub nie będzie zmontowana prawidłowo, mogą powstawać rozproszone refleksy świetlne lub elementy wokół obiektywu mogą przemieścić się i zmienić zakres kąta widzenia.

- Upewnij się, że pokrywa kopuły jest prawidłowo połączona z częścią dolną, jak pokazano na rysunku. Jeśli zatrzask nie jest podłączony prawidłowo, pokrywa kopuły może odpaść, co może doprowadzić do obrażeń ciała.
- Podczas montażu kopuły kamery należy dopilnować, aby linka zabezpieczająca nie utknęła między kopułą a kamerą, gdyż może to spowodować rozpraszanie promieniowania podczerwonego.





## INSTALACJA (XNO-L6080R)

- ! Kamera jest wodoszczelna i spełnia wymogi IP66, z wyłączeniem przyłącza zewnętrznego kabla. Zaleca się montaż tego urządzenia pod okapem dachu, tak aby uchronić kabel przed działaniem warunków zewnętrznych.

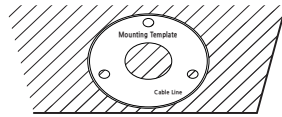
### Środki ostrożności przed montażem

Przed przystąpieniem do montażu kamery należy przeczytać poniższe instrukcje:

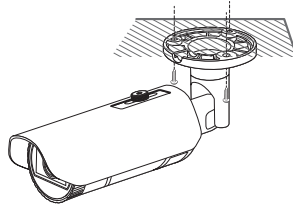
- Umieścić w miejscu (sufit lub ściana), które wytrzyma pięciokrotny ciężar kamery z uchwytem instalacyjnym.
- Zmiażdżone lub "gole" przewody mogą być przyczyną uszkodzenia urządzenia lub pożaru.
- Ze względów bezpieczeństwa nie należy dopuszczać innych osób w pobliżu miejsca montażu. Na wszelki wypadek należy również odsunąć rzeczy osobiste personelu.
- Nie należy używać otworu służącego do mocowania osłony przeciwsłonecznej do żadnych innych celów.
- Użycie zbyt dużej siły podczas instalacji produktu może doprowadzić do uszkodzenia i nieprawidłowego działania kamery. Instalacja produktu przy użyciu siły i nieodpowiednich narzędzi może doprowadzić do jego uszkodzenia.

### Instalacja

1. Umieść szablon montażowy, zwracając uwagę na kierunek monitorowania, a następnie wywierć otwór zaznaczony na szablonie.

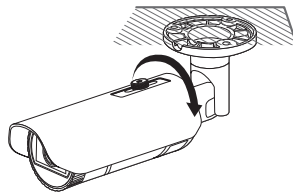


2. Przykręć kamerę przy użyciu dołączonego do zestawu wkrętu samogwintującego.
3. Podłącz odpowiednie przewody do zacisków kamery.



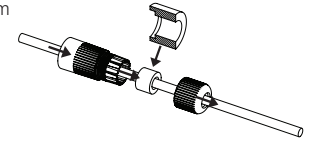
4. Ustaw kamerę w odpowiednim kierunku przy użyciu dołączonego do zestawu klucza w kształcie litery L.

- ! Podczas ustawiania położenia kamery przy użyciu uchwyty poluzuj śrubę uchwyty, ustaw położenie kamery, a następnie dokręć śrubę. Próby ustawiania położenia kamery przy użyciu siły z dokręconą śrubą uchwyty mogą doprowadzić do zarysowań lub innych problemów.

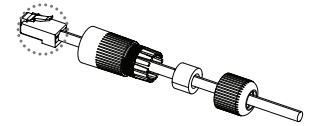


### Jak podłączyć wodoszczelny przewód RJ45 do przewodu sieciowego LAN

1. Wsuń przewód zgodnie z kierunkiem wskazywanym przez strzałkę.

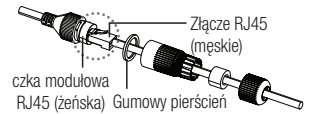


2. Podłącz złącze LAN (męskie) do przewodu.

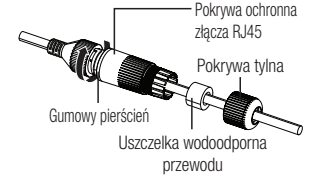


3. Podłącz wtyczkę modułową RJ45 (żeńską) do złącza RJ45 (męskiego).

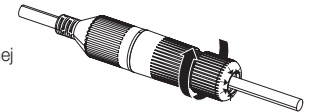
- ! Części muszą być od siebie oddzielone.



4. Dokonaj montażu elementów, obracając wtyczkę modułową RJ45 (żeńską) i osłonę ochronną RJ45 zgodnie z ruchem wskazówek zegara (w kierunku pokazanym przez strzałkę).



5. Dokonaj montażu elementów, obracając pokrywę ochronną RJ45 i pokrywę tylną zgodnie z ruchem wskazówek zegara (w kierunku pokazanym przez strzałkę). Po zakończeniu montażu pokryw tylnych uszczelka wodoszczelna przewodu będzie mocno dociśnięta do przewodu, co zapewni jego wodoszczelność.



- ! Aby tylną pokrywę można było do końca nakręcić na gwint śruby złącza RJ45, montaż wszystkich elementów musi być pełny.

### Montaż na zewnątrz budynku

W przypadku montażu na zewnątrz budynku, kamerę należy uszczelnić wodoszczelną taśmą z kauczuku butylowego dostępną w sklepach, tak aby woda nie dostawała się przez zamocowany na zewnątrz kabel.

1. Podłącz przewód PoE.

2. Taśmą wodoszczelną (z kauczuku butylowego) owinać osłonkę czarnego kabla (Obszar A) oraz obszar złącza kabla, tak aby powstała zakładka szeroka na ponad połowę szerokości użytej taśmy butylowo-kauczukowej.



- ! Jeśli osłonka kabla nie jest właściwie uszczelniona, może to być bezpośrednią przyczyną przecieku. Zapewnić szczelność kabla przez ściśle owinięcie jego taśmą.
- Taśma butylowo-kauczukowa jest wykonana z kauczuku butylowego, który można rozciągnąć do jego dwukrotnej pierwotnej długości.

## INSTALACJA (XNV-L6080/L6080R)

- ! Kamera jest wodoszczelna i spełnia wymogi IP66, z wyłączeniem przyłącza zewnętrznego kabla. Zaleca się montaż tego urządzenia pod okapem dachu, tak aby uchronić kabel przed działaniem warunków zewnętrznych.

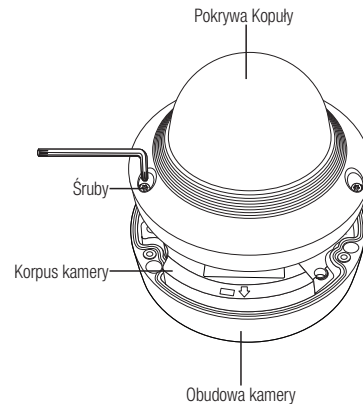
### Środki ostrożności przed montażem

Przed przystąpieniem do montażu kamery należy przeczytać poniższe instrukcje:

- Umieścić w miejscu (sufit lub ściana), które wytrzyma pięciokrotnie ciężar kamery z uchwytem instalacyjnym.
- Zmiażdżone lub "gole" przewody mogą być przyczyną uszkodzenia urządzenia lub pożaru.
- Ze względów bezpieczeństwa nie należy dopuszczać innych osób w pobliżu miejsca montażu. Na wszelki wypadek należy również odsunąć rzeczy osobiste personelu.
- Użycie zbyt dużej siły podczas instalacji produktu może doprowadzić do nieprawidłowego działania kamery i w konsekwencji jej uszkodzenia.
- Montaż przy użyciu siły i nieodpowiednich narzędzi może doprowadzić do uszkodzenia produktu.

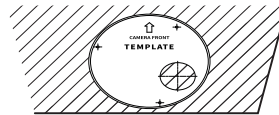
### Demontaż

1. Aby zdemontować pokrywę kopułkową, odkręć śrubę mocującą przy użyciu dołączonego do zestawu klucza w kształcie litery L, wykonując obroty przeciwnie do ruchu wskazówek zegara.



### Instalacja

1. Umieścić szablon montażowy, zwracając uwagę na kierunek monitorowania, a następnie wywierć otwór zaznaczony na szablonie.
  - Ustawić kamerę tak aby oznaczenie <↑> było skierowane w stronę monitorowanego obszaru.



2. Dołączoną do zestawu plastikową kotwę umieścić do oporu w wywierconym otworze.

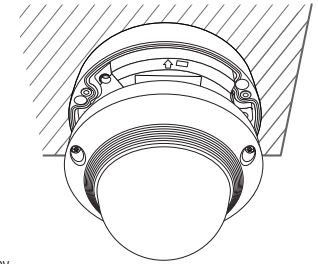
3. Dopasuj otwór na spodzie do otworu w kotwie, a następnie umieść i przykręć wkręt samogwintujący.

4. Podłącz i przygotuj potrzebne przewody, tak aby nie zostały uszkodzone lub skrócone podczas montażu kamery.

5. Ustaw żądany kierunek obiektywu zgodnie ze wskazówkami zawartymi w rozdziale "Regulacja kierunku monitorowania kamery". (Strona 20)

6. Zamknąć pokrywę kopuły.

- Mocno dokręć śrubę zabezpieczającą przy użyciu klucza w kształcie litery L, aby zapobiec wyciekom wody.

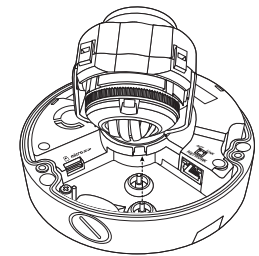


### Podłączanie przewodu LAN

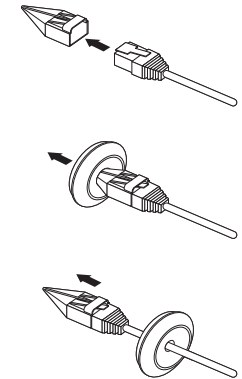
1. Zdjąć pokrywę kopuły oraz puszkę.

2. Wyciągnąć wystającą u dołu część wtyczki gumowej i zdjąć ją tak jak na rysunku.

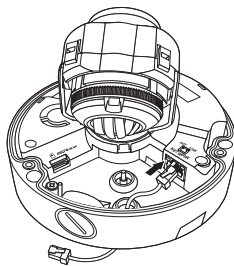
3. Wyciągnij gumową osłonę z otworu i zdejmij ją.



4. Przy użyciu nasadki montażowej przeprowadź przewód RJ45 przez otwór.



5. Ponownie zamontuj gumową zaślepkę i podłącz przewód LAN do gniazda Ethernet.



### Montowanie do zasilacza (kupowany oddzielnie)

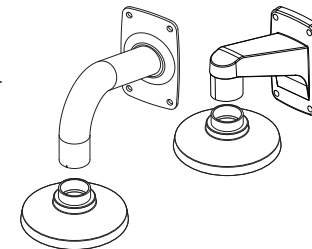
Wybierz i kup wymaganą opcję z poniższych (kupowane oddzielnie), w zależności od miejsca montażu lub własnych preferencji.

1. Zdjąć pokrywę kopuły z puszkii tak, jak opisano w rozdziale **“Demontaż”**. (Strona 18)
2. Za pomocą załączonego wkrętu przymocuj obudowę kamery do zasilacza (kupowany oddzielnie).
3. Podłącz i przygotuj potrzebne przewody, tak aby nie zostały uszkodzone lub skręcone podczas montażu kamery.
4. Zamontuj kamerę wykonując czynności takie jak przy **“Demontaż”**, lecz w odwrotnej kolejności.
5. Ustaw żądany kierunek obiektywu zgodnie ze wskazówkami zawartymi w rozdziale **“Regulacja kierunku monitorowania kamery”**. (Strona 20)
6. Zamknąć pokrywę kopuły.
  - Mocno dokręć śrubę zabezpieczającą przy użyciu klucza w kształcie litery L, aby zapobiec wyciekom wody.

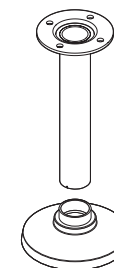
### Opcjonalne akcesoria montażowe

W celu ułatwienia montażu można zakupić odpowiednie akcesoria opcjonalne.

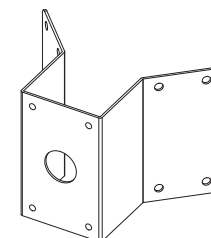
1. PRZYSTAWKA ŚCIENNA (SBP-300WM lub SBP-300WM1)/ PRZYSTAWKA WISZĄCA (XND-L6080R/L6080RV/L6080V : SBP-300HM8, XNV-L6080/L6080R : SBP-300HM6)  
Ta przystawka służy do montażu kamery kopułkowej na ścianie.



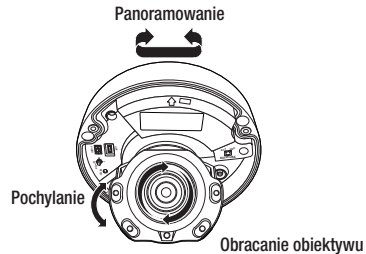
2. PRZYSTAWKA SUFITOWA (SBP-300CM)/PRZYSTAWKA WISZĄCA (XND-L6080R/L6080RV/L6080V : SBP-300HM8, XNV-L6080/L6080R : SBP-300HM6)  
Ta przystawka służy do montażu kamery kopułkowej na betonowym suficie.



3. PRZYSTAWKA KĄTOWA (SBP-300KM)  
To przystawka do instalacji PRZYSTAWKI ŚCIENNEJ (SBP-300WM lub SBP-300WM1) w narożniku pomieszczenia.



## Regulacja kierunku monitorowania kamery (XND-L6080R/L6080RV/L6080V, XNV-L6080/L6080R)



### Ustawianie kierunku monitorowania

Kierunek kamery można wyregulować dopiero, gdy kamera jest zamocowana na suficie. Obracanie kamery w lewo lub w prawo jest wykonywane przy użyciu funkcji Panoramowanie, regulowanie pochylenia przy użyciu funkcji Pochylenie, natomiast obracanie obiektywu wzdłuż jego osi jest możliwe dzięki funkcji Obracanie.

- Efektywny zakres panoramowania to łącznie 354 stopni.
- Efektywny zakres obracania to łącznie 355 stopni.
- Efektywny zakres pochylenia to łącznie 67 stopni.

- ! Zwrócić uwagę na orientację przestrzenną zespołu.
- Po rozmontowaniu kopuły, nie należy obracać obiektywem przy użyciu siły celem regulacji powiększenia i ostrości. W przeciwnym razie mogłoby to spowodować nieprawidłowo ustawioną ostrość ze względu na błąd silnika.

### Metody regulacji

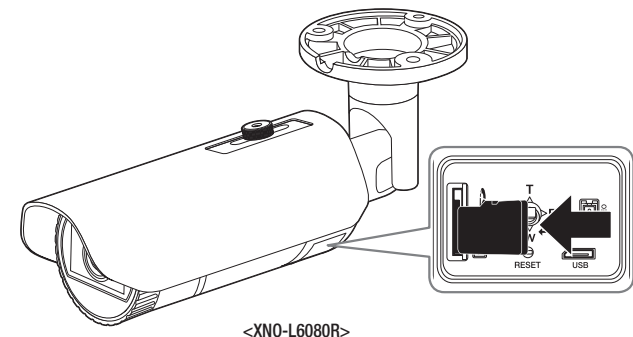
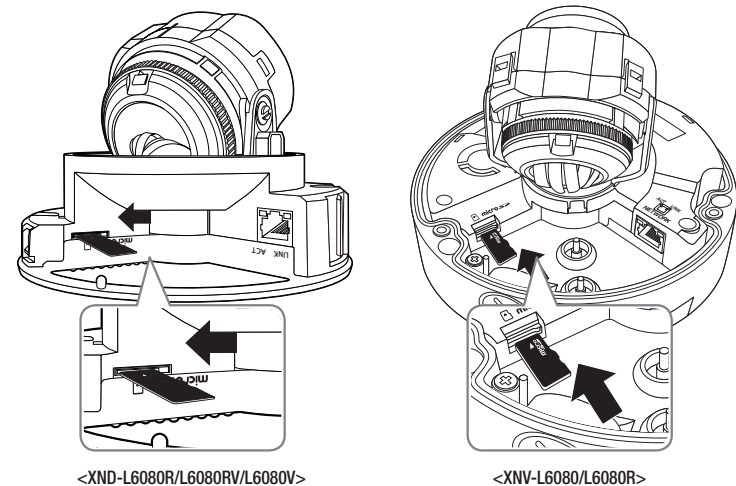
1. Po zamontowaniu kamery dostosuj kąt panoramowania, aby obiektyw skierowany był w stronę monitorowania.
2. Ustawić kąt poziomy, tak aby obraz nie był odwrócony.
3. Ustaw kąt pochylenia, tak aby kamera była ustawiona w kierunku monitorowanego obiektu.

## WKŁADANIE/WYJMOWANIE KARTY PAMIĘCI MICRO SD

- ! Przed włożeniem karty pamięci Micro SD odłącz kabel zasilania od kamery.
- Nie wkładaj na siłę karty pamięci Micro SD, jeśli jest ona ustawiona odwrotnie. Mogłoby to ją uszkodzić.
- W przypadku deszczu lub wysokiej wilgotności wkładanie i wyjmowanie karty Micro SD nie jest zalecane.
- Pokrywa produktu powinna być zdemontowana w ciągu maksymalnie 5 minut. W przeciwnym razie wystąpi ryzyko skraplania się pary wodnej we wnętrzu urządzenia.

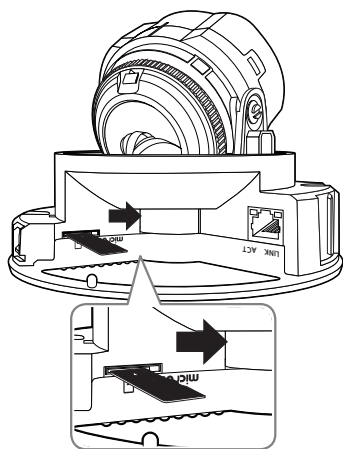
### Wkładanie karty pamięci Micro SD

1. Umieść kartę Micro SD w kierunku wskazywanym przez strzałkę na rysunku.

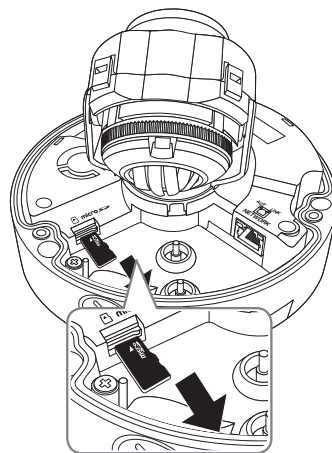


## Wymowanie karty pamięci Micro SD

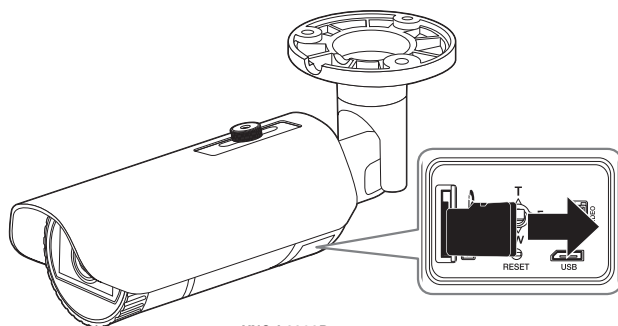
Aby wysunąć kartę pamięci z gniazda, delikatnie naciśnij wystającą jej część tak, jak to jest widoczne na schemacie.



<XND-L6080R/L6080RV/L6080V>



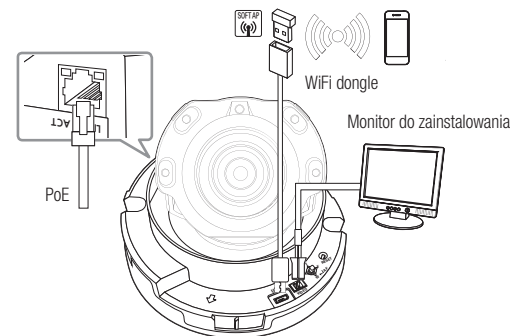
<XNV-L6080/L6080R>



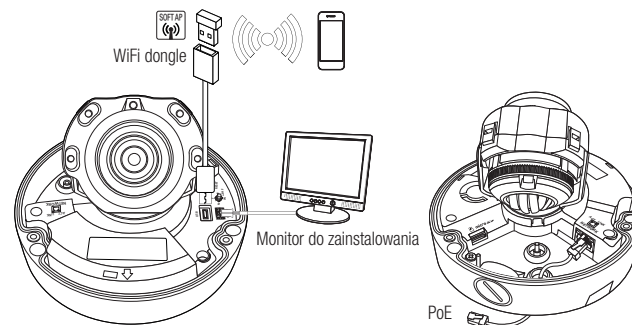
<XNO-L6080R>

- ! Zachowaj ostrożność, ponieważ zbyt silne naciśnięcie karty Micro SD i zwolnienie jej może spowodować jej nagłe całkowite wysunięcie z kamery.
- Przed wyjęciem karty pamięci Micro SD w obszarze <Pamięć> dla urządzenia wybierz ustawienie <Wył.>, naciśnij przycisk [Zastosuj] i wyłącz kamerę.
- W przypadku wyłączenia kamery lub wyjęcia karty pamięci Micro SD, która zawiera dane z produktu, dane te mogą ulec utracie lub zniszczeniu.

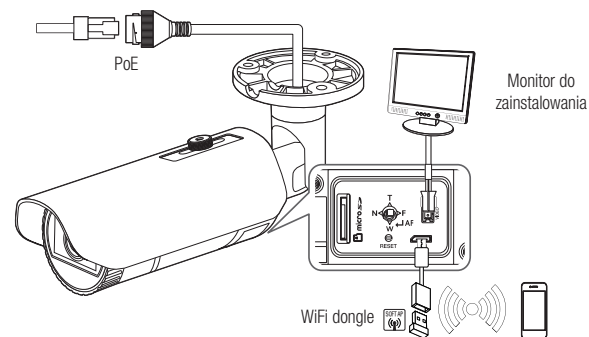
## PODŁĄCZANIE INNEGO URZĄDZENIA



<XND-L6080R/L6080RV/L6080V>



<XNV-L6080/L6080R>



<XNO-L6080R>

- ! Terminal CVBS służy łatwiejszej instalacji oraz nie jest zalecany dla celów monitoringu.
- Terminal Micro USB służy łatwiejszej instalacji oraz nie jest zalecany dla celów monitoringu.
- Niniejszy produkt wyposażony jest w dodatkowy element zapobiegający kondensacji. Ze względu na charakterystykę produktu zjawisko kondensacji może występować przy włączonym zasilaniu, jednak zanika po około dwóch lub trzech godzinach.

## Połączenie typu Ethernet

Podłącz kabel Ethernet do sieci lokalnej lub do Internetu.

## Łączenie z siecią WiFi

### Konfiguracja kamery

1. Adapter OTG (5 styków) i klucz WiFi podłącz do gniazda Micro USB.

### Ustawienia smartfonu

1. Zainstaluj aplikację instalacyjną Wisenet.
2. Po włączeniu sieci WiFi wybierz identyfikator SSID kamery.
3. Uruchom aplikację instalacyjną Wisenet.
4. Po zalogowaniu się do kamery nastąpi połączenie z obrazem wideo (hasło początkowe: 4321)
  - Wideo zostanie odtworzone bez logowania się podczas początkowego nawiązywania połączenia.
5. Można ustawiać kąt widzenia, obserwując wideo przez smartfon.

### Zalecany producent klucza sprzętowego

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

## Zasilanie i praca w sieci

Podłącz urządzenie PoE do kamery.

- ! Podłącz urządzenie do złącza PoE (Power over Ethernet) routera obsługującego funkcję PoE.
- Użyj urządzenia PoE (Power over Ethernet) zgodnego ze standardem IEEE802.3af.

## Specyfikacja kabla sieciowego

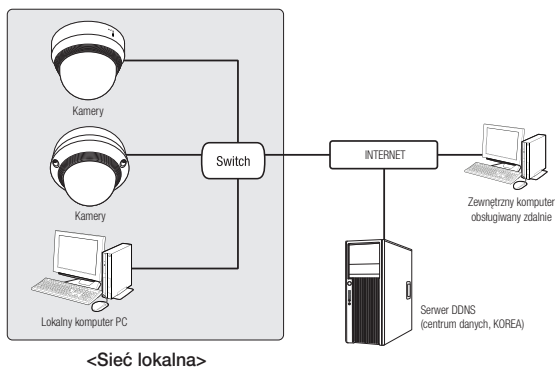
Przedmiot	Zawartość	Uwagi
Łącze	RJ45	
Ethernet	10/100BASE-T	10/100 Mbps
Kabel	UTP Kategoria 5e	
Odległość maks.	100M	DC resistance $\leq$ 0.188 $\Omega$ /m
Obsługa PoE	IEEE 802.3af	

Można skonfigurować ustawienia sieciowe zgodnie z charakterystyką sieci użytkownika.

## PODŁĄCZANIE KAMERY BEZPOŚREDNIO DO SIECI LOKALNEJ

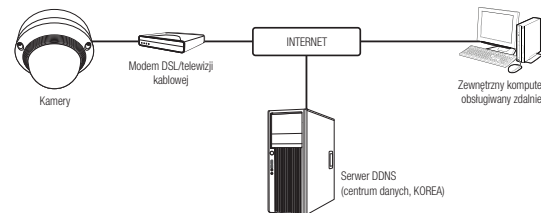
### Podłączanie do kamery lokalnego komputera PC przyłączonego do sieci lokalnej

1. Uruchom na lokalnym komputerze PC przeglądarkę internetową.
2. Na pasku adresu przeglądarki wpisz adres IP kamery.



- Zdalny komputer PC podłączony do zewnętrznej sieci Internet poza siecią lokalną może nie połączyć się z kamerą podłączoną do intranetu, jeśli przekazywanie portów nie zostanie prawidłowo ustawione lub gdy działa zaporą. W takim wypadku, aby rozwiązać problem, należy skontaktować się z administratorem sieci.
- W programie Device Manager możesz użyć początkowego hasła „4321” aby ustawić adres IP, maskę podsieci, bramę, port HTTP, port VNP, typ IP. Po zmianie interfejsu sieciowego, należy wejść na podgląd WEB i zmienić hasło.
- Domyślnym ustawieniem fabrycznym jest automatyczne przydzielanie adresu IP przez serwer DHCP. Jeśli serwer DHCP nie jest dostępny, adres IP zostanie ustawiony na 192.168.1.100. Aby zmienić adres IP, użyj programu Device Manager. Aby uzyskać więcej informacji nt. korzystania z programu Device Manager, patrz „Korzystanie z programu Device Manager”. (Strona 25)

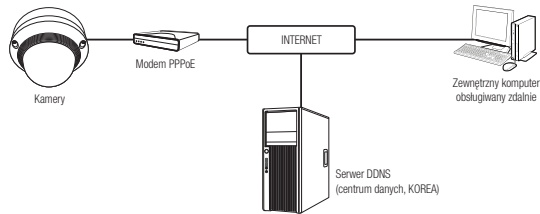
## PODŁĄCZANIE KAMERY BEZPOŚREDNIO DO MODEMU DSL/TELEWIZJI KABLOWEJ OPARTEGO NA PROTOKOLE DHCP



1. Połączenie użytkownika PC bezpośrednio z kamera sieciową.
2. Uruchom program Device Manager i zmień adres IP kamery, aby móc korzystać z przeglądarki internetowej na pulpicie, aby połączyć się z internetem.
3. Uzyskaj połączenie z przeglądarką Web Viewer za pomocą przeglądarki internetowej.
4. Przejdź do strony **[Ustawienia]**.
5. Przejdź do opcji **[Sieć] – [DDNS]** i skonfiguruj ustawienia DDNS.
6. Przejdź do **[Basic] – [IP & Port]** i ustaw typ IP do **[DHCP]**.
7. Podłącz odłączoną od komputera kamerę, bezpośrednio do modemu.
8. Uruchom kamerę ponownie.

- Informacje na temat sposobu konfiguracji DDNS można znaleźć w systemie pomocy online przeglądarki Web Viewer.
- Informacje na temat sposobu ustawiania formatu IP można znaleźć w systemie pomocy online przeglądarki Web Viewer.

## PODŁĄCZANIE KAMERY BEZPOŚREDNIO DO MODEMU PPPoE

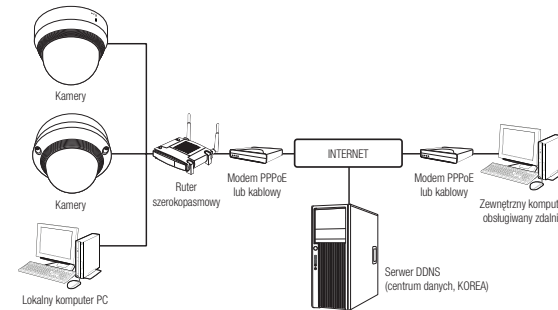


1. Połączenie użytkownika PC bezpośrednio z kamera sieciową.
2. Uruchom program Device Manager i zmień adres IP kamery, aby móc korzystać z przeglądarki internetowej na pulpicie, aby połączyć się z internetem.
3. Uzyskaj połączenie z przeglądarką Web Viewer za pomocą przeglądarki internetowej.
4. Przejdź do strony **[Ustawienia]**.
5. Przejdź do opcji **[Sieć] – [DDNS]** i skonfiguruj ustawienia DDNS.
6. Przejdź do **[Basic] – [IP & Port]** Ustaw stronę, ustaw typ IP do **[PPPoE]** i wprowadź ID serwisu sieci wraz z hasłem.
7. Podłącz odłączoną od komputera kamerę, bezpośrednio do modemu.
8. Uruchom kamerę ponownie.

- Informacje na temat sposobu konfiguracji DDNS można znaleźć w systemie pomocy online przeglądarki Web Viewer.
- Informacje na temat sposobu ustawiania formatu IP można znaleźć w systemie pomocy online przeglądarki Web Viewer.

## PODŁĄCZANIE KAMERY DO RUTER SZEROKOPASMOWY Z MODEMEM PPPoE LUB KABLOWYM

Taki sposób instalacji najlepiej sprawdza się w niewielkich sieciach, np. w domu, małym biurze, biurze domowym albo w sklepie.



### Konfigurowanie ustawień sieciowych komputera PC lokalnego w stosunku do Ruter szerokopasmowy

W celu skonfigurowania ustawień sieciowych komputera PC lokalnego w stosunku do Ruter szerokopasmowy należy wykonać czynności opisane poniżej.

- Wybierz : **<Network>** → **<Properties>** → **<Local Area Connection>** → **<General>** → **<Properties>** → **<Internet Protocol (TCP/IP)>** → **<Properties>** → **<Obtain an IP address automatically>** lub **<Use the following IP address>**.
- W przypadku wybrania opcji **<Use the following IP address>** należy wykonać czynności opisane poniżej:
  - Np. 1) Jeśli adres (adres IP w sieci lokalnej) Ruter szerokopasmowy to 192.168.1.1  
Adres IP : 192.168.1.100  
Maska podsieci : 255.255.255.0  
Brama domyślna : 192.168.1.1
  - Np. 2) Jeśli adres (adres IP w sieci lokalnej) Ruter szerokopasmowy to 192.168.0.1  
Adres IP : 192.168.0.100  
Maska podsieci : 255.255.255.0  
Brama domyślna : 192.168.0.1
  - Np. 3) Jeśli adres (adres IP w sieci lokalnej) Ruter szerokopasmowy to 192.168.xxx.1  
Adres IP : 192.168.xxx.100  
Maska podsieci : 255.255.255.0  
Brama domyślna : 192.168.xxx.1

- Aby uzyskać adres Ruter szerokopasmowy, należy y zajrzeć do jego dokumentacji.
- Aby uzyskać więcej informacji na temat przekierowywania portu routera szerokopasmowego, patrz część **"Konfigurowanie Przekazywania Zakresu Portów (Mapowania Portów)"**. (Strona 27)



## KORZYSTANIE Z PROGRAMU DEVICE MANAGER

- Program Device Manager można pobrać z menu <Technical Support> – <Online Tool> w witrynie Hanwha Techwin (<http://www.hanwha-security.com>).
- Więcej instrukcji programu Device Manager można znaleźć w menu <Pomoc> na stronie głównej.

## AUTOMATYCZNE WYSZUKIWANIE KAMERY

Jeśli kamera jest podłączona do tej samej sieci komputera PC, na którym jest zainstalowany Device Manager, możesz znaleźć kamerę sieciową za pomocą funkcji wyszukiwania.

- Kliknij <Wyszukaj> na stronie głównej programu Device Manager.
- Sprawdź kamerę z listy.
  - Sprawdź adres MAC na naklejce dołączonej do kamery.

## KONFIGUROWANIE ADRESU IP

Jeśli chcesz zmienić ustawienia sieci kamery, znak <Logowanie OK> musi być widoczny w <Status>. Kliknij <Uwierzytelnianie> na stronie głównej, aby się zalogować.

### Konfigurowanie statycznego IP

Ręcznie wstaw i skonfiguruj adres IP i informacje o porcie.

- Kliknij kamerę z listy dla której chcesz zmienić ustawienia IP.
- Kliknij <IP Assign (Przypisz IP)> na stronie głównej programu Device Manager.
- Wybierz <Przypisz następujący adres IP>.
  - Informacje IP kamery zostaną wyświetlone zgodnie z poprzednim ustawieniem.
- Wypełnij kategorie związane z IP & Port.

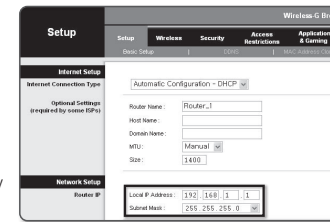
### Jeżeli nie jest używany Ruter szerokopasmowy

Zapytaj o ustawioną wartość menedżera sieci <Adres IP>, <Maska podsieci>, <Brama>.

- HTTP Port : Umożliwia dostęp do kamery za pomocą przeglądarki internetowej; domyślna wartość to 80.
- VNP Port : Służy do sterowania transmisją sygnału wideo; wartość domyślna to 4520.
- RTSP Port : Port sterujący strumieniowaniem w czasie rzeczywistym. Początkowa wartość to 554.

### Jeżeli używany jest Ruter szerokopasmowy

- IP Address : Wpisz adres mieszczący się w zakresie IP podanym przez Ruter szerokopasmowy.  
Np. 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : Opcja <Subnet Mask> Ruter szerokopasmowy będzie także stanowić <Subnet Mask> kamery.
- Gateway : Opcja <Local IP Address> Ruter szerokopasmowy będzie także stanowić <Gateway> kamery.



- Ustawienia mogą być różne, w zależności od Ruter szerokopasmowy. Aby uzyskać więcej informacji, patrz instrukcja obsługi odpowiedniego rutera.
- Aby uzyskać więcej informacji na temat przekierowywania portu rutera szerokopasmowego, patrz część "Konfigurowanie Przekazywania Zakresu Portów (Mapowania Portów)", (Strona 27)

### Jeżeli do Ruter szerokopasmowy jest podłączonych więcej niż jedna kamera

Skonfiguruj ustawienia powiązane z adresem IP oraz portem osobno.

Np.

Kategoria		Kamera 1	Kamera 2
Ustawienia związane z IP	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Ustawienia związane z portem	HTTP Port	8080	8081
	VNP Port	4520	4521
	RTSP Port	554	555

- Jeżeli opcja <HTTP Port> ma inną wartość niż 80, należy podać numer <Port> w pasku adresu przeglądarki internetowej, aby móc uzyskać dostęp do kamery.  
Np. <http://Adres IP: port HTTP>  
<http://192.168.1.100:8080>

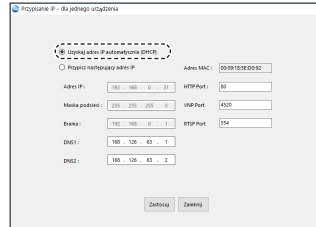
- Kliknij przycisk [Zastosuj].
- Jeśli wyświetlona zostanie wiadomość o powodzeniu, kliknij [OK].

## Konfigurowanie dynamicznego IP

Odbierz adres IP z DHCP.

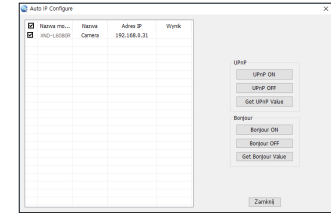
- Przykład środowiska dynamicznego IP
  - Jeżeli do Ruter szerokopasmowy IP z podłączonymi kamerami zostanie przypisany adres IP przez serwer DHCP
  - Jeżeli kamera zostanie podłączona bezpośrednio do xDSL lub modemu kablowego za pomocą protokołów DHCP
  - Jeżeli adresy IP są przypisywane przez wewnętrzny serwer DHCP przez sieć LAN

1. Kliknij kamerę z listy dla której chcesz zmienić ustawienia IP.
2. Kliknij **<IP Assign (Przypisz IP)>** na stronie głównej programu Device Manager.
3. Wybierz **<Uzyskaj adres IP automatycznie (DHCP)>**.
4. Kliknij przycisk **[Zastosuj]**.
5. Jeśli wyświetlona zostanie wiadomość o powodzeniu, kliknij **[OK]**.



## AUTOMATYCZNA KONFIGURACJA IP

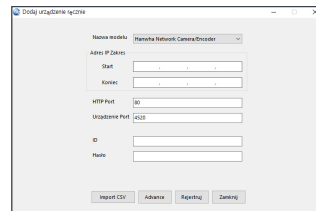
1. Kliknij kamerę z listy dla której chcesz automatycznie skonfigurować IP.
2. Kliknij **< + >** na głównej stronie programu Device Manager.
  - Pojawi się menu ustawień sprzętu.
3. W menu kliknij **<Auto IP Configure (Auto konfiguracja IP)>**.
4. Kliknij przycisk **[Zamknij]**.



## RĘCZNA REJESTRACJA KAMERY

Jeśli nie można znaleźć kamery za pomocą funkcji wyszukiwania, kamerę można zarejestrować zdalnie, ręcznie wprowadzając informacje o IP, jeśli kamera jest podłączona do sieci zewnętrznej.

1. Kliknij **<Dodaj urządzenia>** – **<Dodaj urządzenie ręcznie>** na stronie głównej programu Device Manager.
2. Wstaw zakres szukanego adresu IP.
3. Wybierz **<Nazwa modelu>** zarejestrowanej kamery i wstaw port HTTP, port VNP, ID oraz hasło.
4. Kliknij przycisk **[Rejestruj]**.
5. Sprawdź, czy kamera jest zarejestrowana.
  - Sprawdź adres MAC na naklejce dołączonej do kamery.



## KONFIGUROWANIE PRZEKAZYWANIA ZAKRESU PORTÓW (MAPOWANIA PORTÓW)

Jeżeli zainstalowany jest Ruter szerokopasmowy z podłączoną kamerą, należy ustawić przekazywanie zakresu portów na Ruter szerokopasmowy, aby zdalny komputer mógł uzyskać dostęp do kamery za jego pośrednictwem.

### Ręczne przekazywanie zakresu portów

1. Z menu Konfiguracja Ruter szerokopasmowy, wybierz opcję <Applications & Gaming> - <Port Range Forward>.

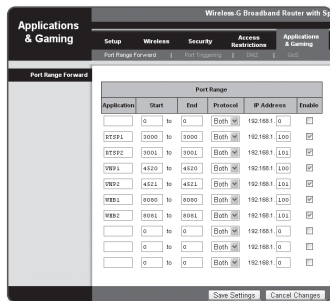
W celu ustawienia przekazywania zakresu portów dla rutera innego producenta należy zapoznać się z instrukcją obsługi tego Rutera szerokopasmowego.

2. Wybierz opcję <TCP> oraz <UDP Port> dla każdej kamery podłączonej do Rutera szerokopasmowego.

Numer każdego portu, który ma zostać skonfigurowany do routera IP, należy ustawić zgodnie z numerem portu określonym w menu <Ustawienia> - <Basic> - <IP & Port> w przeglądarce Web Viewer kamery.

3. Po zakończeniu kliknij opcję [Save Settings].

Ustawienia zostaną zapisane.

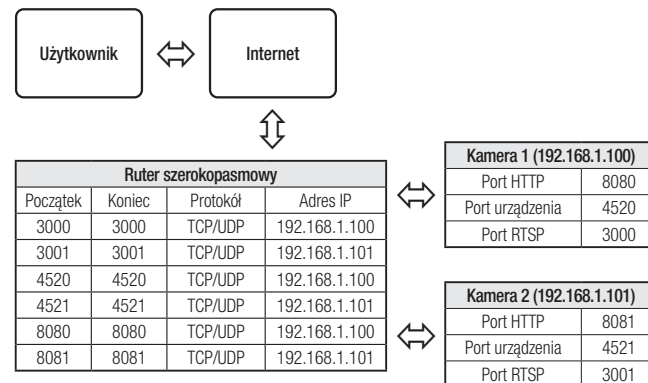


- ☑ ■ Ustawienie przekierowania portu jest przykładem ustawienia routera IP CISCO.
- Ustawienia mogą być różne, w zależności od Routera szerokopasmowego. Aby uzyskać więcej informacji, patrz instrukcja obsługi odpowiedniego routera.

## Konfigurowanie opcji Przekazywanie zakresu portów dla kilku kamer sieciowych

- Użytkownik może ustawić przekierowanie portu na Ruter szerokopasmowy na stronie internetowej konfiguracji.
- Użytkownik może zmienić każdy port za pomocą ekranu ustawień kamery.

W przypadku podłączenia Kamery 1 i Kamery 2 do routera :



- ☑ ■ Przekierowanie portów może zostać ustawione bez dodatkowych ustawień routera, jeżeli router obsługuje funkcję UPnP (Universal Plug and Play). Po podłączeniu kamery sieciowej zaznacz pole wyboru w menu <Szybkie podłączenie> w oknie <WiseNet DDNS> w "Ustawieniach" -> "Sieć" -> "DDNS".

### PODŁĄCZANIE DO KAMERY ZA POMOCĄ UDOSTĘPNIONEGO LOKALNEGO KOMPUTERA

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1. Uruchom program Device Manager.  
Aplikacja wyszuka podłączone kamery i wyświetli je w postaci listy.
2. Kliknij dwukrotnie kamerę, aby uzyskać do niej dostęp.  
Zostanie uruchomiona przeglądarka internetowa i nastąpi połączenie z kamerą.



- Do kamery można przejść także wpisując adres IP znalezionej kamery w pasku adresu przeglądarki internetowej.

### PODŁĄCZANIE DO KAMERY ZE ZDALNEGO KOMPUTERA PRZEZ INTERNET

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Na komputerze zdalnym, który nie znajduje się w klastrze sieciowym routera szerokopasmowego, użytkownicy mogą uzyskać dostęp do kamer w sieci routera szerokopasmowego, używając DDNS URL kamery.

1. Aby możliwe było uzyskanie dostępu do kamery w sieci Ruter szerokopasmowy, należy ustawić przekazywanie zakresu portów Ruter szerokopasmowy.
2. Na zdalnym komputerze uruchom przeglądarkę internetową i wpisz adres URL DDNS kamery lub adres Ruter szerokopasmowy szerokopasmowy w pasku adresu.  
Np. <http://ddns.hanwha-security.com/ID>

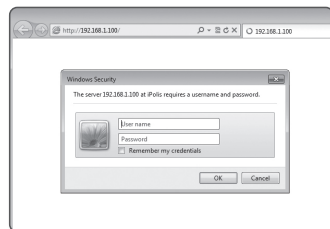


- Aby korzystać z Wisenet DDNS, zarejestruj się na stronie głównej Wisenet DDNS (<http://ddns.hanwha-security.com>) i zarejestruj produkt w [\[Moje DDNS\]](#)> [\[Zarejestruj Produkt\]](#).

## PODŁĄCZANIE DO KAMERY

### Zazwyczaj należy postępować w następujący sposób

1. Uruchom przeglądarkę internetową.
2. Wpisz adres IP kamery w pasku adresu.  
np. • Adres IP (IPv4) : 192.168.1.100 → http://192.168.1.100  
- powinno zostać wyświetlone okno dialogowe.  
• Adres IP (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111  
→ http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - powinno zostać wyświetlone okno dialogowe.



### Jeśli port http jest inny niż 80

1. Uruchom przeglądarkę internetową.
2. Wpisz adres IP i numer portu HTTP kamery w pasku adresu.  
np. Adres IP : 192.168.1.100:numer portu HTTP (8080)  
→ http://192.168.1.100:8080 - powinno zostać wyświetlone okno dialogowe logowania.

### Za pomocą URL

1. Uruchom przeglądarkę internetową.
2. Wpisz adres URL DDNS kamery w pasku adresu.  
np. Adres URL : http://ddns.hanwha-security.com/ID  
- powinno zostać wyświetlone okno dialogowe logowania.

 Połączenie sieciowe jest wyłączone w środowisku ograniczonym do LAN.

### Połączenie przez UPnP

1. Uruchomić klienta lub system operacyjny obsługujący protokół UPnP.
2. Aby wyszukać, kliknąć w nazwę kamery.  
W systemie Windows, kliknąć w nazwę kamery wyszukaną w menu sieciowym.  
- Okno logowania jest otwarte.

### Połączenie przez Bonjour

1. Uruchomić klienta lub system operacyjny obsługujący protokół Bonjour.
2. Aby wyszukać, kliknąć w nazwę kamery.  
W Mac SO kliknąć w nazwę kamery wyszukaną w zakładce Bonjour na Safari.  
- Okno logowania jest otwarte.

### Sprawdzanie adresu DDNS

Jeśli kamera jest podłączona bezpośrednio do modemu DHCP przez sieć kablową, modemu DSL lub PPPoE, adres IP sieci będzie zmieniany za każdą próbą połączenia z serwerem ISP (ang. Internet Service Provider – dostawca Internetu).

W takim przypadku użytkownik nie będzie informowany o zmianie adresu IP przez DDNS.

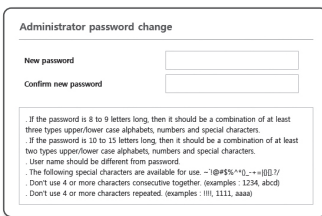
Po zarejestrowaniu urządzenia z dynamicznym adresem IP w serwerze DDNS można bezpiecznie sprawdzić zmieniony adres IP podczas uzyskiwania dostępu do urządzenia. Aby zarejestrować urządzenie na serwerze <DDNS>, najpierw wejdź na stronę <http://ddns.hanwha-security.com> i zarejestruj urządzenie, a następnie dla opcji <Sieć> - <DDNS> przeglądarki Web Viewer wybierz ustawienie <Wisenet DDNS> oraz podaj <ID produktu> używane do rejestracji DDNS.

## USTAWIENIA HASŁA

Pierwsze użycie produktu wiąże się z koniecznością rejestracji loginu i hasła.

Po pojawieniu się okna "zmiana hasła" wprowadzić nowe hasło.

- ! Nowe hasło powinno mieć 8 do 9 znaków długości, w tym 3 znaki wielkie/male, cyfry i znaki specjalne. Dla hasła 10 do 15 znaków wystarczą 2 znaki wskazane wyżej.
  - Dozwolone znaki specjalne: ~!@#\$\$%^&()\*\_+=""{}|.?/
- Dla poprawy bezpieczeństwa nie zaleca się powtarzania tych samych znaków po kolei ani używania kolejnych znaków klawiatury.
- Jeżeli hasło zostało utracone, nacisnąć przycisk [RESET] i inicjować produkt. Zatem hasło należy zapamiętać, lub zapisać.



## USTAWIANIE PRZEGLĄDARKI WEB VIEWER KAMERY

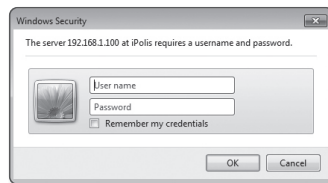
1. Kliknij ikonę [Ustawienia (⚙️)].
2. Wyświetlone zostanie okno Ustawienia.
3. Umożliwia ono zarządzanie za pośrednictwem sieci ustawieniami dotyczącymi podstawowych informacji o kamerze, PTZ, wideo, sieci, zdarzeń, analizy, systemu i platformy otwartej.
4. Kliknij opcję <Pomoc (🔗)>, aby wyświetlić szczegółowy opis każdej funkcji.

## LOGOWANIE

Przy każdej próbie uzyskania dostępu do kamery zostanie wyświetlone okno logowania. Wprowadź ID użytkownika i hasło, aby uzyskać dostęp do kamery.

1. Wpisz słowo "admin" w polu <User Name>. ID administratora "admin" jest stałe i nie można go zmienić.
2. Wprowadź hasło w polu <Password>.
3. Kliknij przycisk [OK].  
Jeżeli logowanie się powiodło, zostanie wyświetlony ekran aplikacji Live Viewer.

- ! Podczas korzystania z podglądu internetowego należy zwrócić uwagę na bezpieczeństwo i sprawdzić, czy obraz jest szyfrowany.
- 🔒 Jeżeli zostanie zaznaczona opcja "Remember my credentials" po wprowadzeniu danych, przy kolejnym uruchomieniu nastąpi automatyczne logowanie bez potrzeby podawania danych logowania.
- Najlepszą jakość wideo można uzyskać przy ekranie o rozmiarze 100%. Zmniejszenie współczynnika może spowodować obcięcie krawędzi obrazu.



## ROZWIĄZYWANIE PROBLEMÓW

PROBLEM	ROZWIĄZANIE
Nie wyświetli się żadne wideo poprzez dostęp do bezpłatnej przeglądarki na Safari poprzez HTTPS.	<ul style="list-style-type: none"> <li>W oknie uwierzytelniania wyświetlonym przy pierwszym dostępie do protokołu https kliknij opcję „Pokaż certyfikat uwierzytelnienia” i zaznacz pole wyboru „Zawsze ufaj, nawiązując połączenie do określonego IP” przeglądarki WebViewer”.</li> <li>Jeśli przeglądarka nadal odmawia wyświetlenia wideo po wyborze "Następny" w poniższym oknie komunikatów, należy nacisnąć klawisz polecenia + Q w celu opuszczenia przeglądarki Safari, uzyskać ponowny dostęp i wykonać podane wyżej procedury.</li> </ul>
Nie mogę uzyskać dostępu do kamery z przeglądarki internetowej.	<ul style="list-style-type: none"> <li>Sprawdź, czy ustawienia sieciowe kamery są odpowiednie.</li> <li>Sprawdź, czy wszystkie kable sieciowe zostały podłączone prawidłowo.</li> <li>W przypadku łączenia za pomocą DHCP sprawdź, czy kamera otrzymała dynamiczny adres IP.</li> <li>Jeśli kamera jest podłączona do Ruter szerokopasmowy, sprawdź, czy przekazywanie portów zostało skonfigurowane prawidłowo.</li> </ul>
Program podglądu został odłączony podczas monitorowania.	<ul style="list-style-type: none"> <li>Podłączone programy podglądu zostają odłączone przy każdej zmianie konfiguracji kamery lub sieci.</li> <li>Sprawdź wszystkie połączenia sieciowe.</li> <li>Jeśli kamera jest podłączona przez sieć PPPoE, możliwe jest odłączenie programu podglądu w przypadku pogorszenia warunków działania sieci.</li> </ul>
Kamera podłączona do sieci nie jest wykrywana w programie Device Manager.	<ul style="list-style-type: none"> <li>Wyłącz cz zaporę na komputerze PC i wyszukaj kamery ponownie.</li> </ul>
Obrazy nakładają się na siebie.	<ul style="list-style-type: none"> <li>Sprawdź, czy kilka kamer nie jest ustawionych na ten sam adres multiemisji. Jeśli jest używany ten sam adres przez wiele kamer, obrazy mogą się na siebie nakładać.</li> </ul>

PROBLEM	ROZWIĄZANIE
Brak obrazu.	<ul style="list-style-type: none"> <li>Jeśli metoda transmisji to multiemisja, sprawdź, czy router w sieci lokalnej, do którego jest podłączona kamera, obsługuje multiemisję.</li> </ul>
<Wykrywanie ruchu> z <Analizy> jest w pozycji <Włącz.>, ale nie otrzymuję zawiadomień email nawet jeżeli nastąpiło zdarzenie ruchu.	<ul style="list-style-type: none"> <li>Sprawdź ustawienia w następującej kolejności:           <ol style="list-style-type: none"> <li>Sprawdź ustawienia opcji &lt;Data i godzina&gt;.</li> <li>Dla opcji &lt;Wykrywanie ruchu&gt; powinno być wybrane ustawienie &lt;Włącz.&gt;.</li> <li>Zaznacz, jeśli wybrano użycie opcji &lt;E-mail&gt; w menu &lt;Konfig. zdarzeń&gt;.</li> </ol> </li> </ul>
Nagrywanie na karcie pamięci Micro SD jest niemożliwe.	<ul style="list-style-type: none"> <li>Sprawdź, czy karta pamięci nie jest uszkodzona.</li> </ul>
Karta pamięci Micro SD jest włożona, jednak kamera nie działa prawidłowo.	<ul style="list-style-type: none"> <li>Sprawdź, czy karta pamięci została włożona odpowiednią stroną. Ta kamera nie gwarantuje działania karty pamięci sformatowanej w innych urządzeniach</li> <li>Sformatuj kartę pamięci ponownie w menu &lt;Ustawienia&gt; → &lt;Zdarzenie&gt; → &lt;Pamięć&gt;.</li> </ul>
Nie można nagrywać w NAS.	<ul style="list-style-type: none"> <li>Upewnij się, że informacja rejestrowana w NAS jest poprawna.</li> </ul>
Raportuje że ustawienia NAS nie powiodły się.	<ul style="list-style-type: none"> <li>Upewnij się, że adres IP NAS jest poprawny.</li> <li>Upewnij się, że ID/hasło NAS są poprawne.</li> <li>Korzystając z ID NAS, upewnij się, że jest dostęp do folderu wskazanego jako podstawowy.</li> <li>Upewnij się, że SMB/CIFS nie są zaznaczone.</li> <li>Upewnij się, że adres IP NAS oraz adres IP kamery mają taki sam format. Np.) Początkowa wartość maski podsieci NAS i kamery wynosi 255.255.255.0. Jeżeli adres IP jest 192.168.20.32 adres IP NAS IP powinien zawierać się w 192.168.20.1-192.168.20.255.</li> <li>Sprawdź czy podejmowałeś próbę dostępu jako inny użytkownik bez formatowania zapisanego bądź używanego podstawowego folderu.</li> <li>Upewnij się, że wykorzystywany jest zalecany sprzęt NAS.</li> </ul>

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Base Kernel	GPL 2.0	
Busybox	GPL 2.0	<a href="http://www.busybox.net/downloads/snapshots">http://www.busybox.net/downloads/snapshots</a>
iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	<a href="http://ftp.netfilter.org/pub/iptables">http://ftp.netfilter.org/pub/iptables</a>
ethtool-4.2	GPL 2.0	
mtd-1.5.2	GPL 2.0	<a href="ftp://ftp.infradead.org/pub/mtd-utils">ftp://ftp.infradead.org/pub/mtd-utils</a>
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	<a href="http://www.roaringpenguin.com/pppoe/">http://www.roaringpenguin.com/pppoe/</a>
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
zeroconf	GPL 2.0	

## LGPL SW

Component Name	License	URL
glibc	LGPL 2.0	
inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	<a href="http://www.webdav.org/neon/">http://www.webdav.org/neon/</a>

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.sub, ltcconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

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

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

We are required to state that

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

### Article 1. Scope of License Agreement

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

### Article 2. Definition

1. "T-Kernel" means a real-time operating system controlled and distributed by T-Engine Forum on behalf of the copyright holder thereof.
2. "Source Code" means a source program, including related comments and documentations, for the T-Kernel and the Ported Source Code defined in Article 2.8 which is registered with T-Engine Forum.
3. "Hardware-dependent Part" means the part of the Source Code which depends on hardware and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.
4. "Compiler-dependent Part" means the part of the Source Code which depends on compiler and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.
5. "Header File" means the part of the Source Code which contains definitions necessary to develop application programs.
6. "T-Engine Hardware" means the hardware which is manufactured in accordance with the T-Engine Hardware specifications or the  $\mu$ T-Engine Hardware specifications issued by T-Engine Forum, and registered with T-Engine Forum.
7. "Similar Hardware to T-Engine Hardware" means any hardware (including software which emulates hardware) other than that defined in Article 2.6 above, on which the T-Kernel can be operated.
8. "Ported Source Code" means a source program produced from the Source Code by modifying only its Hardwaredependent Part and/or Compiler-dependent Part to enable it to be operated on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware. The Ported Source Code which is registered with T-Engine Forum shall be included in the Source Code.
9. "Modified Source Code" means a source program modified from the Source Code for the purpose of improving its performance, increasing or decreasing its function, and the like. The Ported Source Code shall not be included in the Modified Source Code.
10. "Binary Code" means an executable code form which is created by compiling programs, which include all or part of the Source Code or the Modified Source Code.
11. "Derivative Work" means the Modified Source Code or the Binary Code.
12. "Embedded Product" means any product which operates with executable code form of the Source Code, the Modified Source Code or the Binary Code loaded on its hardware.
13. "End User" means a consumer who uses the Embedded Product.
14. "System Developer" means any person who develops the Embedded Product by itself or has a third party develop the same, and provides, whether with or without payment, the End User with the Embedded Product.
15. "Distributor of Modification" means any person who produces the Modified Source Code and, whether with or without payment, distributes the same to any third party.

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

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

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

**19.** "Distribution" means any of the following acts:

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2. to transmit a work to the general public through the Internet communication, broadcasting, and the like automatically in response to a request from the public; and
3. to distribute a copy of a work to the general public or a large number of specific persons.

#### **Article 3. Copyright**

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

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1. As provided for in this Article, T-Engine Forum shall provide, and grant a license to use, the Source Code free of charge to any person who has taken the necessary procedure for registration as prescribed by T-Engine Forum and agreed to the T-License.

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

1. to perform any and all acts set forth in the Article 4.3 above.
2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.

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

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

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

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

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

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

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

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

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

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

#### **Article 6. Distribution and Registration of the Ported Source Code**

1. The Source Code User and the System Developer may, whether with or without charge, distribute to any third party only the following parts of the Ported

Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware:

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

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

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

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

1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
2. The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.
3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.

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

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

#### **Article 7. Use for Other Purpose**

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

#### **Article 8. Limited Warranty**

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

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

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

#### **Article 11. Governing Law and Language**

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

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

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.5 of 10 December 2007

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iperf performance test

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Jean-loup Gailly Mark Adler

[jloup@gzip.org](mailto:jloup@gzip.org) [madler@alummi.caltech.edu](mailto:madler@alummi.caltech.edu)

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

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Na wszystkich etapach produkcji firma Hanwha Techwin dba o środowisko naturalne i wykonuje wiele działań dążących 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 zutilizowane, 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.

