

# KAMERA SIECIOWA

Instrukcja obsługi

QND-6012R/6022R/6032R/6072R/6082R

QNV-6012R/6022R/6032R/6072R/6082R

QNO-6012R/6022R/6032R/6072R/6082R



# 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

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- ❖ 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 wyczyścić miękką, suchą szmatką lub wilgotną szmatką.  
(Do not use a detergent or cosmetic products that contain alcohol, solvents or surfactants or oil constituents as they may deform or cause damage to the product.)
- 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.
- Ten produkt przeznaczony do wykorzystania jako zatwierdzony zasilacz oznaczony symbolami „Klasa 2” lub „LPS” o mocy 12 V DC, 0,55 A lub PoE (48 V), 0,16 A. (QND-6072R/6082R, QNV-6072R/6082R)
- Ten produkt przeznaczony do wykorzystania jako zatwierdzony zasilacz oznaczony symbolami „Klasa 2” lub „LPS” o mocy 12 V DC, 0,54 A lub PoE (48 V), 0,16 A. (QND-6012R/6022R/6032R, QNV-6012R/6022R/6032R)
- Ten produkt przeznaczony do wykorzystania jako zatwierdzony zasilacz oznaczony symbolami „Klasa 2” lub „LPS” o mocy 12 V DC, 0,55 A lub PoE (48 V), 0,16 A. (QNO-6072R/6082R)
- Ten produkt przeznaczony do wykorzystania jako zatwierdzony zasilacz oznaczony symbolami „Klasa 2” lub „LPS” o mocy 12 V DC, 0,51 A lub PoE (48 V), 0,15 A. (QNO-6012R/6022R/6032R)
- Ten produkt jest przeznaczony do zasilania przez izolację.
- 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” w podręczniku użytkownika.
- Instalacja lub eksploatacja produktu w wodzie może doprowadzić do jego poważnego uszkodzenia.
- Chociaż gwałtowna zmiana temperatury może spowodować wystąpienie szronu w kopule, nie wpłynie to jednak na zakłócenia w obrazie wideo.

## OSTRZEŻENIE

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

## WYJAŚNIENIE SYMBOLI GRAFICZNYCH



Równoboczny trójkąt ostrzegawczy ze znakiem błyskawicy zakończony 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.

Odłączanie 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

Istnieje ryzyko eksplozji, jeśli użyto baterii niewłaściwego typu. Zużyte baterie utylizować zgodnie z zaleceniami.

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.

Wyjściowy port monitora testowego produktu jest dostępny dla ułatwienia instalacji i nie jest zalecany do monitorowania.

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 urządzeń 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.

UWAGA

Nie należy patrzeć na pracującą lampę IR LED, aby uniknąć uszkodzenia wzroku.

Dotyczy tylko poniższych modeli.

QND-6012R/6022R/6032R/6072R/6082R  
QNV-6012R/6022R/6032R/6072R/6082R  
QNO-6012R/6022R/6032R/6072R/6082R

| Grupa ryzyka 1                                                                                        |
|-------------------------------------------------------------------------------------------------------|
| <b>UWAGA ten produkt emituje światło podczerwone.</b><br><b>Nie wolno patrzeć na pracującą lampę.</b> |
| Produkt przebadany zgodnie z normą IEC 62471                                                          |

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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: Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14
- Zalecana przeglądarka: Google Chrome
- Obsługiwane przeglądarki: MS Explore11, MS Edge, Mozilla Firefox(tylko 64-bitowa wersja systemu Windows), Apple Safari(Obsługiwana wyłącznie w systemie Mac OS X)
- VGA: Karta graficzna PCIe 256 MB GDDR3 lub lepsza

SPECYFIKACJA ZALECANYCH KART PAMIĘCI MICRO SD/SDHC/SDXC

- Zalecana pojemność: Zalecana pojemność: od 16 do 128 GB (typ MLC)
- Zalecani producenci: SanDisk, Transcend
- Rodzaj produktu: Wysoka wytrzymałość
- Zgodność zależy od producentów i typów kart.

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.

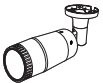
| Zalecane produkty | Dostępne rozmiary                         |
|-------------------|-------------------------------------------|
| QNAP NAS          | Dostęp jednoczesny dla maksimum 16 kamer. |
| Synology NAS      | Dostęp jednoczesny dla maksimum 16 kamer. |



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

## CO ZNAJDUJE SIĘ W OPAKOWANIU

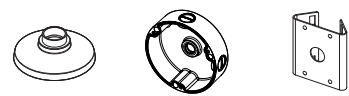
Należy sprawdzić, czy w opakowaniu znajduje się kamera oraz wszystkie akcesoria.  
(Akcesoria nie są identyczne i zależą od kraju sprzedaży)

| Wygląd                                                                              | Nazwa elementu                              | Liczba | Opis                                              | Nazwa modelu                                                                                                              |
|-------------------------------------------------------------------------------------|---------------------------------------------|--------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|    | Kamera                                      | 1      |                                                   | QND-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|    |                                             | 1      |                                                   | QNO-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|    |                                             | 1      |                                                   | QNV-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|    | Skrócona instrukcja obsługi<br>(Opcjonalny) | 1      |                                                   | QND-6012R/6022R/<br>6032R/6072R/6082R,<br>QNV-6012R/6022R/<br>6032R/6072R/6082R,<br>QNO-6012R/6022R/<br>6032R/6072R/6082R |
|    | Karta gwarancyjna<br>(Opcjonalny)           | 1      |                                                   | QND-6012R/6022R/<br>6032R/6072R/6082R,<br>QNV-6012R/6022R/<br>6032R/6072R/6082R,<br>QNO-6012R/6022R/<br>6032R/6072R/6082R |
|    | Szablon                                     | 1      | Instrukcja montażu urządzenia                     | QND-6012R/6022R/<br>6032R/6072R/6082R,<br>QNV-6012R/6022R/<br>6032R/6072R/6082R,<br>QNO-6012R/6022R/<br>6032R/6072R/6082R |
|  | Terminal zasilania                          | 1      | Włączona do gniazdka                              | QND-6012R/6022R/<br>6032R/6072R/6082R,<br>QNV-6012R/6022R/<br>6032R/6072R/6082R                                           |
|  | Klucz imbusowy                              | 1      | Wykorzystywany do sterowania<br>kierunkiem kamery | QNO-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |

| Wygląd                                                                                | Nazwa elementu                            | Liczba | Opis                                                                              | Nazwa modelu                                                                                                              |
|---------------------------------------------------------------------------------------|-------------------------------------------|--------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|    | L Klucz (gwiazdkowy)                      | 1      | Wykorzystywany do zdejmowania i<br>wymiany kopuły.                                | QNV-6012R/6022R/<br>6032R/6072R/6082R,                                                                                    |
|    | Przewód alarmowy                          | 1      | Używany w przypadku nawiązania<br>połączenia z alarmem                            | QND-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|    | Akcesorium wodoodporne RJ45               | 1      | Do montażu w wilgotnych miejscach                                                 | QNO-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|    | Oslona przeciwsłoneczna                   | 1      | Ochronia kamerę przed bezpośrednim<br>nasłonecznieniem.                           | QNO-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|    | Śruba mocująca osłonę<br>przeciwsłoneczną | 1      | Umożliwia zamocowanie na kamerze<br>osłony przeciwsłonecznej.                     | QNO-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|    | Kabel zasilający                          | 1      | Podłączyć do portu zasilania                                                      | QNV-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|    | Kabel audio/alarm                         | 1      | Podłączyć do portu audio i alarm                                                  | QNV-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|    | Przewód monitora<br>sprawdzającego        | 1      | Służy do sprawdzania kamery<br>poprzez podłączenie do przenośnego<br>wyświetlacza | QND-6012R/6022R/<br>6032R/6072R/6082R,<br>QNV-6012R/6022R/<br>6032R/6072R/6082R,<br>QNO-6012R/6022R/<br>6032R/6072R/6082R |
|  | Tulejka kablowa                           | 1      | Używana podczas podłączania<br>przewodu LAN                                       | QNV-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |
|  | Nasadka montażowa                         | 1      | Używana podczas podłączania<br>przewodu RJ45                                      | QNV-6012R/6022R/<br>6032R/6072R/6082R                                                                                     |

Opcjonalne akcesoria montażowe

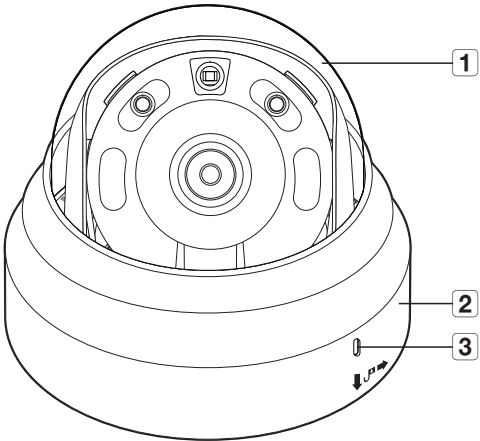
W celu ułatwienia montażu można zakupić odpowiednie akcesoria opcjonalne.



| Nazwa modelu                          | Montaż wiszący | Tylna skrzynka | Montaż na słupku | Wszystko                               |
|---------------------------------------|----------------|----------------|------------------|----------------------------------------|
| QNV-6012R/6022R/6032R                 | SBP-122HMMW    | SBV-120GW      |                  | SBP-300LMW<br>(Montaż na balustradzie) |
| QNV-6072R/6082R                       | SBP-301HMMW2   | SBV-136BW      |                  | SBP-300CMW<br>(Montaż na suficie)      |
| QND-6012R/6022R/6032R                 | SBP-300HMMW7   |                |                  | SBP-300WMMW1<br>(Montaż na ścianie)    |
| QND-6072R/6082R                       | SBP-122HMMW    |                |                  | SBP-300NBW<br>(Skrzynka instalacyjna)  |
|                                       |                |                |                  | SBP-300PMW<br>(Montaż na słupku)       |
| QNO-6012R/6022R/<br>6032R/6072R/6082R |                | SBO-100B1      | SBP-302PM        | SBP-300KMW<br>(Montaż na rogu)         |

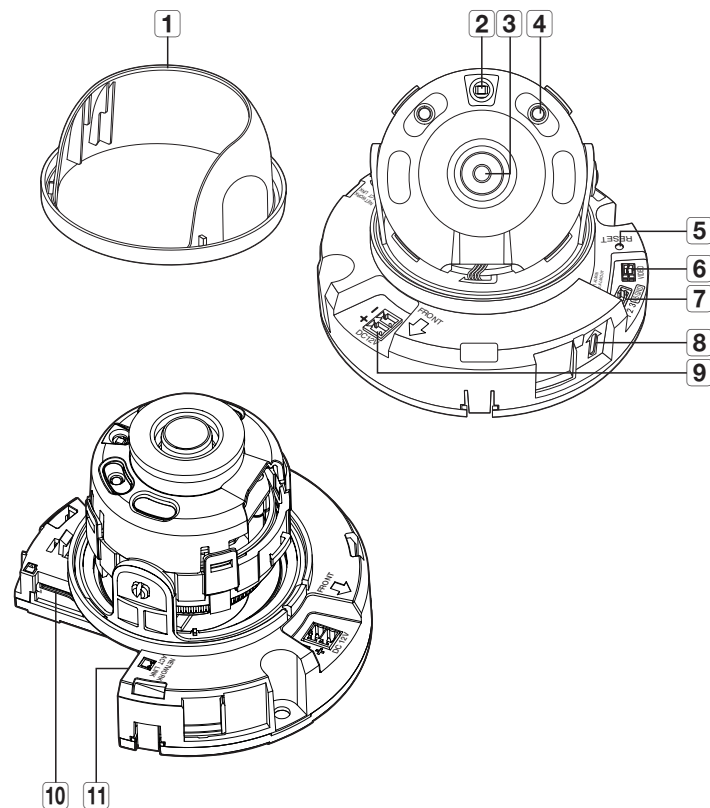
SPOJRZENIE NA KAMERĘ (QND-6012R/6022R/6032R)

Wygląd



| Element             | Opis                                               |
|---------------------|----------------------------------------------------|
| 1 Pokrywa kopułkowa | Ostona chroniąca obiektyw i urządzenie główne.     |
| 2 Obudowa kamery    | Część obudowy osłaniająca główną część urządzenia. |
| 3 Otwór mikrofonu   | Mikrofon jest wbudowany.                           |

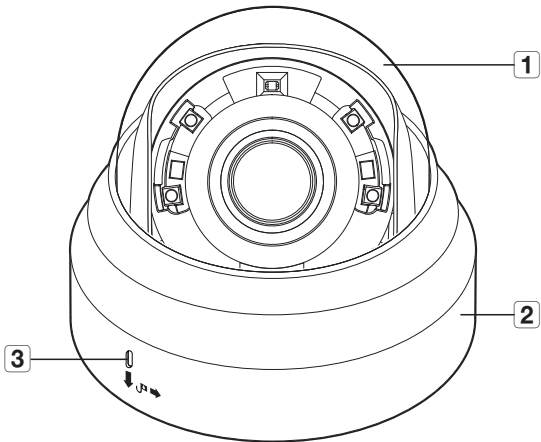
Komponentowy



| Element                              | Opis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Pokrywa wewnętrzna                 | Pokrywa ochronna głównego korpusu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2 Czujnik oświetlenia                | Wykrywa natężenie światła i steruje diodą podczerwieni.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3 Obiektyw                           | Obiektyw kamery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4 Dioda podczerwieni                 | Diody podczerwieni są sterowane za pomocą czujnika oświetlenia.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5 Przycisk Reset                     | Ten przycisk przywraca wszystkie ustawienia kamery do wartości domyślnych. Naciśnij i przytrzymaj przez około 5 sekund, aby uruchomić system ponownie.<br>❗ 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. |
| 6 Wyjście sygnału testowego monitora | Port wyjścia służący do testowego monitoringu wyjścia wideo. Przy użyciu przewodu testowego monitora podłączyć do przenośnego wyświetlacza i sprawdzić testowy obraz wideo.                                                                                                                                                                                                                                                                                                                           |
| 7 Gniazdo wej./wyj. alarmu           | ARM-IN Służy do podłączenia czujnika alarmu lub zewnętrznego czujnika dzień/noc.                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                      | ARM-OUT Służy do podłączania sygnału wyjściowego alarmu.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                      | GND To są wspólne porty do podłączenia sygnałów wejściowych/ wyjściowych alarmu.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8 Otwór mikrofonu                    | Mikrofon jest wbudowany.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 9 Gniazda Zasilania                  | Port do terminalu zasilania.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10 Komora karty pamięci Micro SD     | Komora na kartę pamięci Micro SD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 11 Gniazdo Sieć                      | Służy do podłączania przewodu PoE lub Ethernet w celu uzyskania połączenia z siecią.                                                                                                                                                                                                                                                                                                                                                                                                                  |

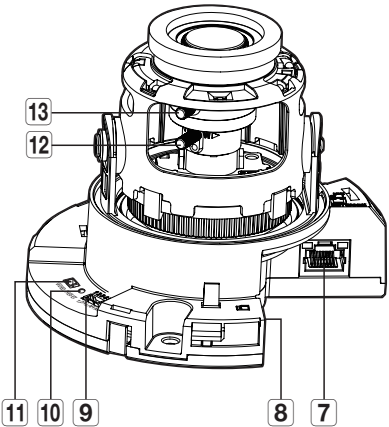
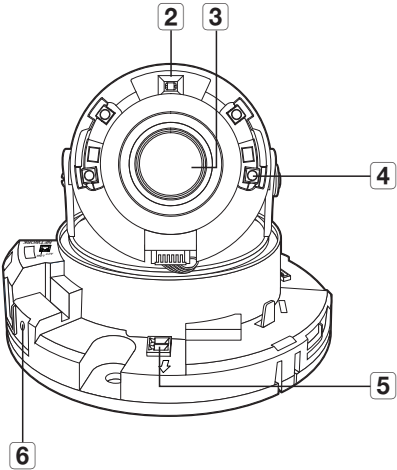
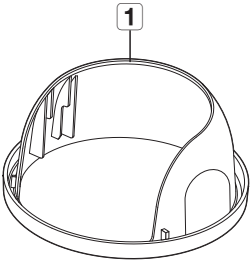
SPOJRZENIE NA KAMERĘ (QND-6072R/6082R)

Wygląd

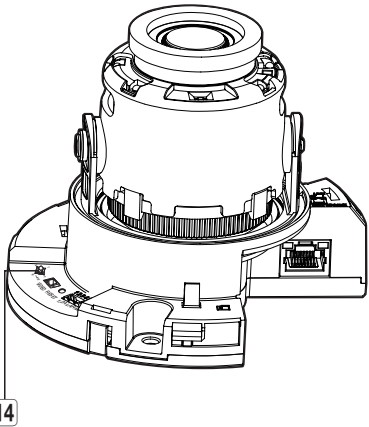


| Element             | Opis                                               |
|---------------------|----------------------------------------------------|
| 1 Pokrywa kopułkowa | Ostona chroniąca obiektyw i urządzenie główne.     |
| 2 Obudowa kamery    | Część obudowy osłaniająca główną część urządzenia. |
| 3 Otwór mikrofonu   | Mikrofon jest wbudowany.                           |

Komponentowy



<QND-6072R>



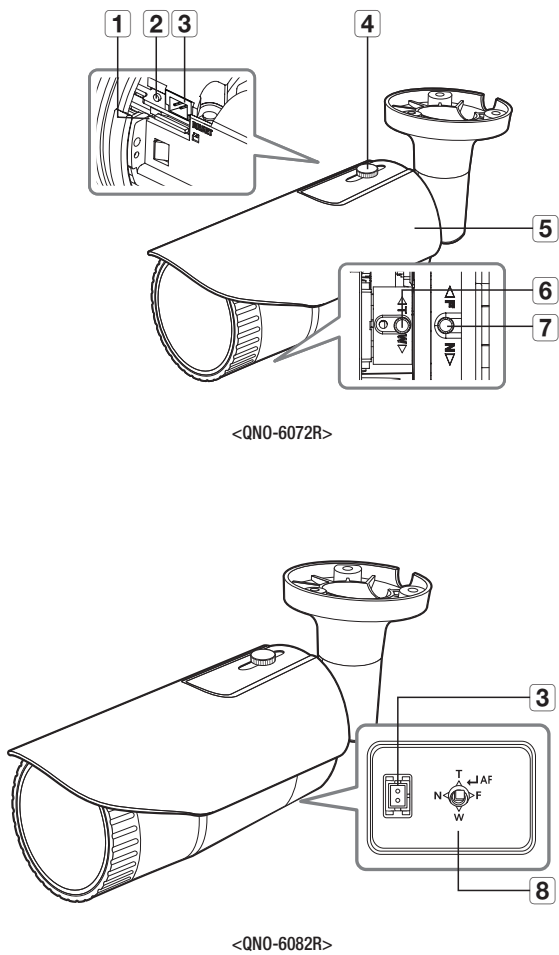
<QND-6082R>

| Element                                      | Opis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>1</b> Pokrywa wewnętrzna                  | Pokrywa ochronna głównego korpusu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |
| <b>2</b> Czujnik oświetlenia                 | Wykrywa natężenie światła i steruje diodą podczerwieni.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                              |
| <b>3</b> Obiektyw                            | Obiektyw kamery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |
| <b>4</b> Dioda podczerwieni                  | Diody podczerwieni są sterowane za pomocą czujnika oświetlenia.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| <b>5</b> Gniazda Zasilania                   | Port do terminalu zasilania.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                              |
| <b>6</b> Otwór mikrofonu                     | Mikrofon jest wbudowany.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              |
| <b>7</b> Gniazdo Sieć                        | Służy do podłączania przewodu PoE lub Ethernet w celu uzyskania połączenia z siecią.                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |
| <b>8</b> Komora karty pamięci Micro SD       | Komora na kartę pamięci Micro SD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              |
| <b>9</b> Gniazdo wej./wyj. alarmu            | ARM-IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Służy do podłączenia czujnika alarmu lub zewnętrznego czujnika dzień/noc.    |
|                                              | ARM-OUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Służy do podłączania sygnału wyjściowego alarmu.                             |
|                                              | GND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | To są wspólne porty do podłączenia sygnałów wejściowych/ wyjściowych alarmu. |
| <b>10</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>11</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.                                                                                                                                                                                                                                                                                                                                                 |                                                                              |

| Element                                               | Opis                                                                                                                                                                                                     |                                                   |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>12</b> Dżążek sterowania powiększeniem (QND-6072R) | T                                                                                                                                                                                                        | Zoom in (Tele)                                    |
|                                                       | W                                                                                                                                                                                                        | Zoom out (Szeroki)                                |
|                                                       | Zwolnij dźwignię i przesun ją w lewo lub w prawo, aby przybliżyć lub oddalić obiektyw. Obróć dźwignię zgodnie z ruchem wskazówek zegara, aby zablokować ustawioną pozycję i uniemożliwić ruch obiektywu. |                                                   |
| <b>13</b> Dżążek sterowania ostrością (QND-6072R)     | N                                                                                                                                                                                                        | Ostrość na bliski przedmiot (Blisko)              |
|                                                       | F                                                                                                                                                                                                        | Ostrość na daleki przedmiot (Daleko)              |
|                                                       | Zwolnij dźwignię i przesun ją w lewo lub w prawo, aby ustawić ostrość obiektywu. Obróć dźwignię zgodnie z ruchem wskazówek zegara, aby zablokować ustawioną pozycję i uniemożliwić ruch obiektywu.       |                                                   |
| <b>14</b> Przycisk Zoom/Ostrość (QND-6082R)           | 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. |

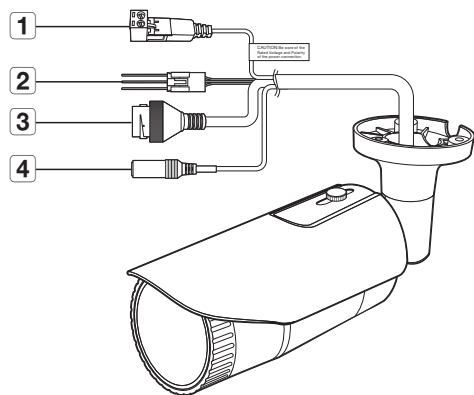
SPOJRZENIE NA KAMERĘ (QNO-6012R/6022R/6032R/6072R/6082R)

Wygląd



| Element | Opis                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Gniazdo kart Micro SD                       | (wewnątrz urządzenia) To jest gniazdo, w którym można umieścić kartę Micro SD.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2       | Przycisk Reset                              | Ten przycisk przywraca wszystkie ustawienia kamery do wartości domyślnych. Naciśnij i przytrzymaj przez około 5 sekund, aby uruchomić system ponownie.<br><b>!</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. |
| 3       | 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.                                                                                                                                                                                                                                                                                                                                      |
| 4       | Śruba mocująca osłonę przeciwsłoneczną      | Umożliwia zamocowanie na kamerze osłony przeciwsłonecznej.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5       | Osłona przeciwsłoneczna                     | Ochronia kamerę przed bezpośrednim nasłonecznieniem.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6       | Drażek sterowania powiększeniem (QNO-6072R) | T      Zoom in (Tele)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|         |                                             | W      Zoom out (Szeroki)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 7       | Drażek sterowania ostrością (QNO-6072R)     | Zwolnij dźwignię i przesuwaj ją w lewo lub w prawo, aby przybliżyć lub oddalić obiektyw. Obróć dźwignię zgodnie z ruchem wskazówek zegara, aby zablokować ustawioną pozycję i uniemożliwić ruch obiektywu.                                                                                                                                                                                                                                                                                                   |
|         |                                             | N      Ostrość na bliski przedmiot (Blisko)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8       | Przycisk Zoom/Ostrość (QNO-6082R)           | F      Ostrość na daleki przedmiot (Daleko)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|         |                                             | Zwolnij dźwignię i przesuwaj ją w lewo lub w prawo, aby ustawić ostrość obiektywu. Obróć dźwignię zgodnie z ruchem wskazówek zegara, aby zablokować ustawioną pozycję i uniemożliwić ruch obiektywu.                                                                                                                                                                                                                                                                                                         |
|         |                                             | T      Zoom in (Tele)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|         |                                             | W      Zoom out (Szeroki)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|         |                                             | N      Ostrość na bliski przedmiot (Blisko)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|         |                                             | F      Ostrość na daleki przedmiot (Daleko)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|         |                                             | Ustawienia ostrości      Przucisnąć aby wyłączyć ogniskowanie automatyczne.                                                                                                                                                                                                                                                                                                                                                                                                                                  |

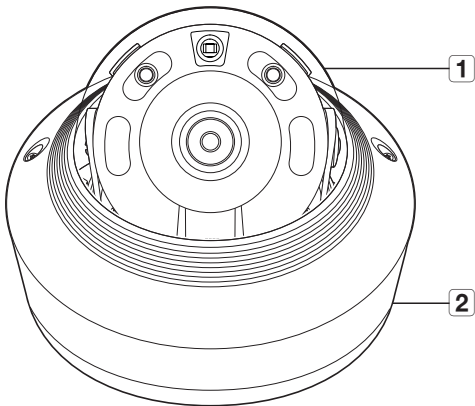
Komponentowy



| Element                    | Opis                                                                                 |                                                                              |
|----------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1 Gniazda Zasilania        | Służą do podłączania kabla zasilającego.                                             |                                                                              |
| 2 Gniazdo wej./wyj. alarmu | ARM-OUT                                                                              | Służy do podłączania sygnału wyjściowego alarmu.                             |
|                            | GND                                                                                  | To są wspólne porty do podłączenia sygnałów wejściowych/ wyjściowych alarmu. |
|                            | ARM-IN                                                                               | Służy do podłączenia czujnika alarmu lub zewnętrznego czujnika dzień/noc.    |
| 3 Gniazdo Sieć             | Służy do podłączania przewodu PoE lub Ethernet w celu uzyskania połączenia z siecią. |                                                                              |
| 4 Gniazdo wejścia audio    | Służy do podłączania mikrofonu.                                                      |                                                                              |

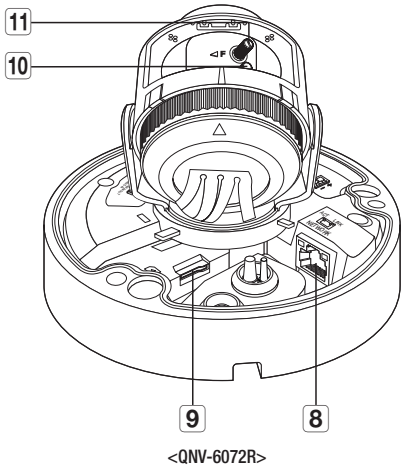
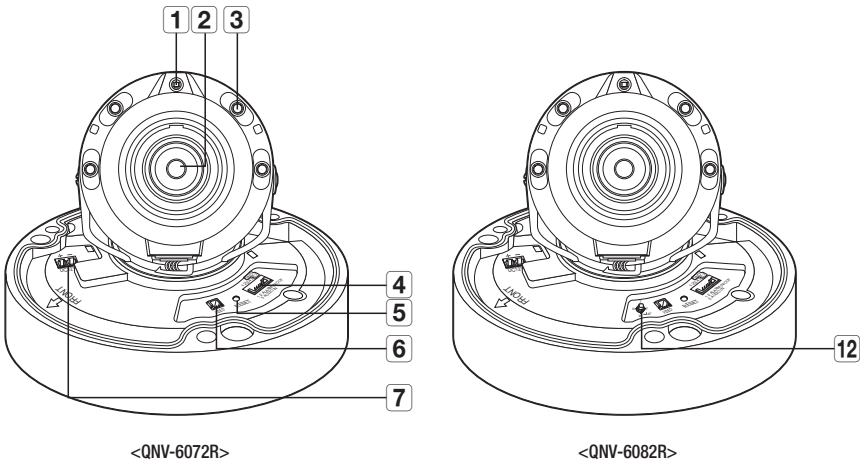
SPOJRZENIE NA KAMERĘ (QNV-6012R/6022R/6032R/6072R/6082R)

Wygląd



| Element             | Opis                                               |
|---------------------|----------------------------------------------------|
| 1 Pokrywa kopułkowa | Oslona chroniąca obiektyw i urządzenie główne.     |
| 2 Obudowa kamery    | Część obudowy osłaniająca główną część urządzenia. |

Komponentowy



| 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> Port kabla audio i alarmu                                                                                                                                                                       | ARM-IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Służy do podłączenia czujnika alarmu lub zewnętrznego czujnika dzień/noc.    |
|                                                                                                                                                                                                          | ARM-OUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Służy do podłączania sygnału wyjściowego alarmu.                             |
|                                                                                                                                                                                                          | GND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | To są wspólne porty do podłączenia sygnałów wejściowych/ wyjściowych alarmu. |
|                                                                                                                                                                                                          | AUDIO IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Służy do podłączania mikrofonu.                                              |
| <b>5</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>■ 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>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> Gniazda Zasilania                                                                                                                                                                               | Port do terminalu zasilania.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                              |
| <b>8</b> Gniazdo Sieć                                                                                                                                                                                    | Służy do podłączania przewodu PoE lub Ethernet w celu uzyskania połączenia z siecią.                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |
| <b>9</b> Komora karty pamięci Micro SD                                                                                                                                                                   | Komora na kartę pamięci Micro SD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              |
| <b>10</b> Dźwonek sterowania powiększeniem (QNV-6072R)                                                                                                                                                   | T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Zoom in (Tele)                                                               |
|                                                                                                                                                                                                          | W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Zoom out (Szeroki)                                                           |
| Zwolnij dźwignię i przesun ją w lewo lub w prawo, aby przybliżyć lub oddalić obiektyw. Obróć dźwignię zgodnie z ruchem wskazówek zegara, aby zablokować ustawioną pozycję i uniemożliwić ruch obiektywu. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |
| <b>11</b> Dźwonek sterowania ostrością (QNV-6072R)                                                                                                                                                       | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ostrość na bliski przedmiot (Blisko)                                         |
|                                                                                                                                                                                                          | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ostrość na daleki przedmiot (Daleko)                                         |
| Zwolnij dźwignię i przesun ją w lewo lub w prawo, aby ustawić ostrość obiektywu. Obróć dźwignię zgodnie z ruchem wskazówek zegara, aby zablokować ustawioną pozycję i uniemożliwić ruch obiektywu.       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |

| Element                                     | Opis                |                                                   |
|---------------------------------------------|---------------------|---------------------------------------------------|
| <b>12</b> Przycisk Zoom/Ostrość (QNV-6082R) | 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. |

## INSTALACJA (QND-6012R/6022R/6032R/6072R/6082R)

### Środki ostrożności przed montażem

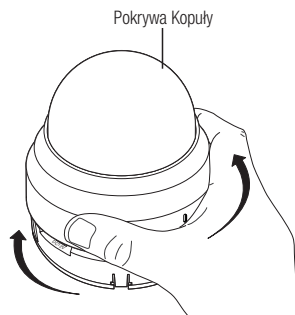
Przed przystąpieniem do montażu kamery należy przeczytać poniższe instrukcje:

- 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.

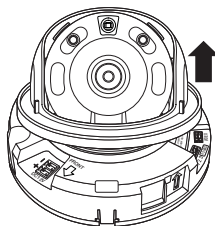
### Demontaż

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

-  Nie dotykaj przezroczystej części pokrywy kopułowej, gdy folia ochronna zostanie zdjęta.

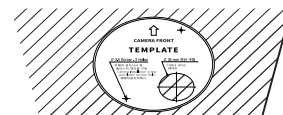


2. Aby odłączyć podnieść pokrywę wewnętrzną.



### Instalacja

1. Uwzględnić kierunek monitorowania, przyłóż szablon na przy jego użyciu wywierć otwory.

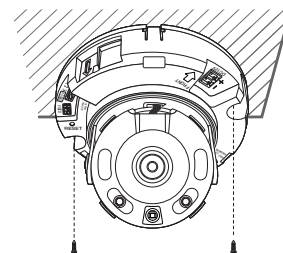


2. Przymocuj kamerę w 2 miejscach wywierconych z użyciem szablonu za pomocą 2 wkrętów samogwintujących.

- Ustawić kamerę tak aby oznaczenie < ↑ > było skierowane w stronę monitorowanego obszaru.

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 23)

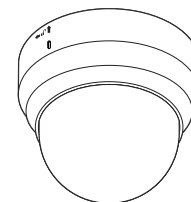
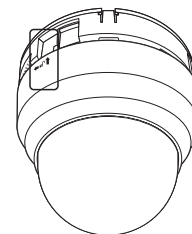


-  Zalecamy powstrzymanie się przed manipulacjami przy obiektywie. Ostrość została ustawiona fabrycznie. Obiektyw może utracić ostrość bądź ulec zabrudzeniu.

5. Połącz pokrywę wewnętrzną z korpusem głównym.

6. Przytrzymując dolną część kamery w dłoni, weź pokrywę w drugą dłoń i wcisnij ją tak, aby dwa symbole strzałki pokrywały się ze sobą, jak pokazano na ilustracji.

-  W celu zamontowania pokrywy kopułki ustaw strzałki tak, aby pokrywały się, a następnie mocno docisnij pokrywę. Jeśli pokrywa kopuły zostanie obrócona podczas montażu lub zostanie zmontowana nieprawidłowo, mogą wystąpić odbicia rozproszone lub może nastąpić obrót obiektywu, co spowoduje zmianę zakresu kąta widzenia.
- Upewnij się, że pokrywa kopuły jest prawidłowo połączona z częścią dolną, jak pokazano na rysunku. Jeśli zatrask nie jest podłączony prawidłowo, pokrywa kopuły może odpaść, co może doprowadzić do obrażeń ciała.



## INSTALACJA (QNO-6012R/6022R/6032R/6072R/6082R)

- ! 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.

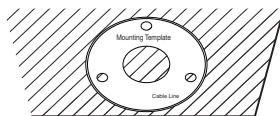
### Środki ostrożności przed montażem

Przed przystąpieniem do montażu kamery należy przeczytać poniższe instrukcje:

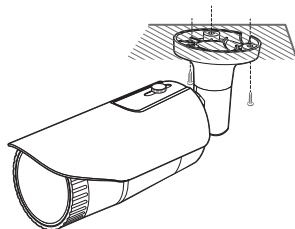
- Umieścić w miejscu (sufit lub ściana), które wytrzyma pięciokrotnie ciężar kamery z uchwytem instalacyjnym.
- Zmiażdżone lub "gole" przewody mogą być przyczyną uszkodzenia urządzenia lub pożaru.
- Ze względów bezpieczeństwa nie należy dopuszczać innych osób w pobliżu miejsca montażu. Na wszelki wypadek należy również odsunąć rzeczy osobiste personelu.
- Nie należy używać otworu służącego do mocowania osłony przeciwsłonecznej do żadnych innych celów.
- W przypadku kamery wyposażonej w obiektyw z ręczną regulacją ostrości przed instalacją należy dostosować takie ustawienia, jak ostrość i zoom. Podczas ustawiania ostrości i zoomu należy zachować ostrożność, aby nie zabrudzić obiektywu ciałami obcymi.

### Instalacja

1. Uwzględnić kierunek monitorowania, przyłóż szablon na przy jego użyciu wywierć otwory.

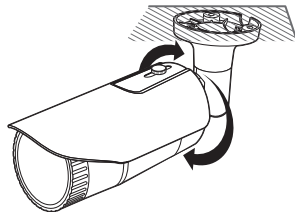


2. Włóż i przykręć 3 wkrętów samogwintujących do 3 otworów, aby przymocować kamerę.
3. Podłącz odpowiednie przewody do zacisków kamery.



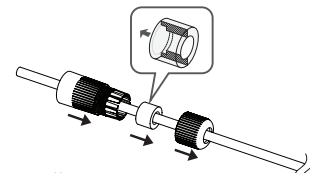
4. Ustaw kamerę w odpowiednim kierunku przy użyciu dołączonego do zestawu klucza w kształcie litery L.

- ! 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.

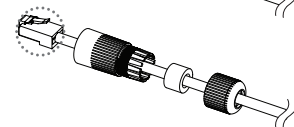


### Jak podłączyć wodoodporny przewód RJ45 do przewodu sieciowego LAN

1. Wsuń przewód zgodnie z kierunkiem wskazywanym przez strzałkę.

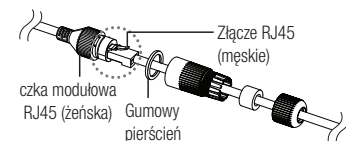


2. Podłącz złącze LAN (męskie) do przewodu.

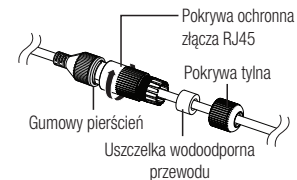


3. Podłącz wtyczkę modułową RJ45 (żeńską) do złącza RJ45 (męskiego).

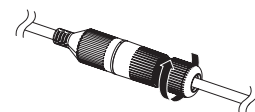
- ! Części muszą być od siebie oddzielone.



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 tylną uszczelka wodoodporna przewodu będzie mocno docisnięta do przewodu, co zapewni jego wodoodporność.

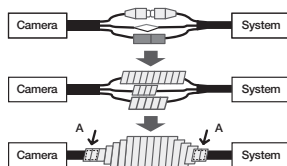


- ! Aby tylną pokrywę można było do końca nakręcić na gwint śruby złącza RJ45, montaż wszystkich elementów musi być pełny.

## 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.

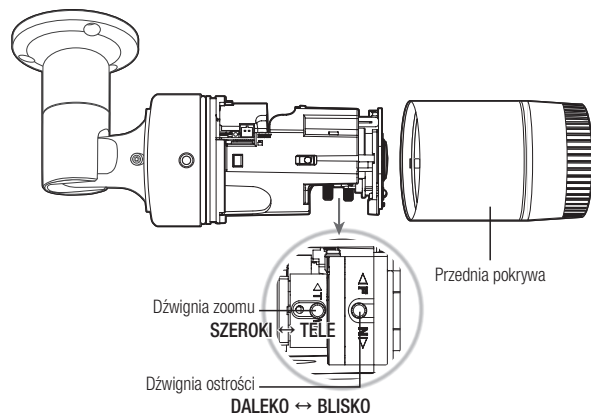
1. Podłączyć kable: zasilania, we/wy (I/O), AUDIO oraz LAN.
2. Taśmą wodoszczelną (z kauczuku butylowego) owinać osłonkę czarnego kabla (Obszar A) oraz obszar złącza kabla, tak aby powstała zakładka szeroka na ponad połowę szerokości użytej taśmy butylowo-kauczukowej.



- ! 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.

## Usta wianie współczynnika zoomu lub ostrości (QNO-6072R)

1. Poluzuj przednią pokrywę, jak pokazano na rysunku.
2. Poluzuj nieznacznie dźwignię zoomu/ostrości.
3. Ustaw dźwignię zoomu/ostrości w pozycji SZEROKI (BLISKO) lub TELE (DALEKO) w zależności od potrzeby.
4. Następnie dokręć dźwignię zoomu/ostrości, aby zatwierdzić ustawioną pozycję.
5. Pokręcając przednią pokrywę dokręć ją.



- ! Aby zapewnić pełną wodoodporność, dokręć przednią pokrywę obracając ją do końca. Podczas montażu przedniej osłony korpus należy połączyć z przednią osłoną tak, aby symbol Blokada został zablokowany.
- Przy użyciu dźwigni ustaw współczynnik zoomu lub ostrości, i obróć dźwignię zgodnie z kierunkiem wskazówek zegara, aby ją zamocować.
- Aby ustawić współczynnik zoomu/ostrości obiektywu, poluzuj i zdejmij przednią pokrywę.

## INSTALACJA (QNV-6012R/6022R/6032R)

- ! 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.

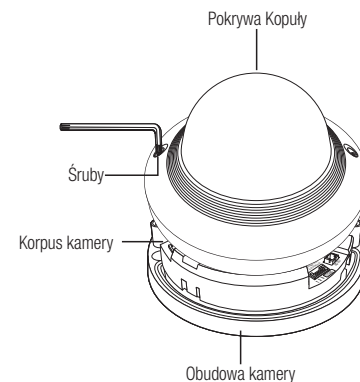
## Środki ostrożności przed montażem

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.

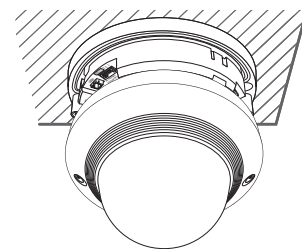
## Demontaż

1. Aby zdemontować pokrywę, przy użyciu dołączonego do zestawu klucza w kształcie litery L, poluzuj 2 śruby na pokrywie kopuły, wykręcając je przeciwnie do ruchu wskazówek zegara.



## Instalacja

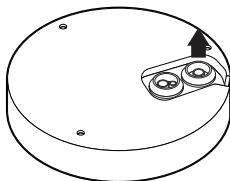
1. Korzystając z szablonu znajdującego się w zestawie wywiercić otwór (6mm średnicy, 55mm głębokości) i wsunąć znajdujące się w zestawie kołki rozporowe.
2. Dopasuj otwór w podstawie do włożonej kotwy i dokręć Wkręt samogwintujący (M4.5xL50).
3. Podłącz i przygotuj potrzebne przewody, tak aby nie zostały uszkodzone lub skrócone podczas montażu kamery.
4. Ustaw żądany kierunek obiektywu zgodnie ze wskazówkami zawartymi w rozdziale "Regulacja kierunku monitorowania kamery". (Strona 23)
5. Zamknąć pokrywę kopuły.
  - ! Mocno dokręć śrubę zabezpieczającą przy użyciu klucza w kształcie litery L, aby zapobiec wyciekowi wody.



## Podłączanie przewodu LAN

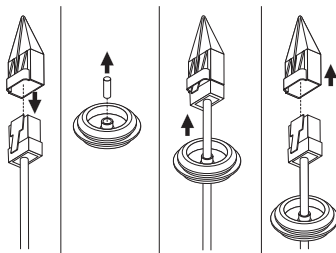
1. Zdjąć pokrywę kopuły oraz puszkę.
2. Zdejmij tuleję kablową na dole, jak pokazano na rysunku.

- ! ■ Przy podłączaniu użyć właściwej tulejki kablowej.
- Kamera podstawowa: Użyć kabla Ø5~6.5.

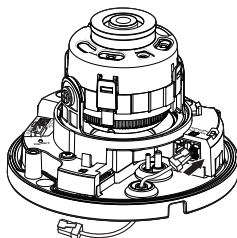


3. Wyciągnij wytłoczoną część dostarczonej tulei z 1 otworem.

4. Użyj narzędzia do instalacji nasadki do poprowadzenia kabla LAN przez tuleję kablową.

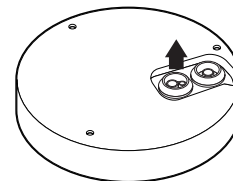


5. Poprowadź kabel LAN przez otwór utworzony po zdjęciu tulei kablowej w kroku 2, a następnie podłącz go do złącza Ethernet.
6. Włóż tuleję kabla LED do otworu.

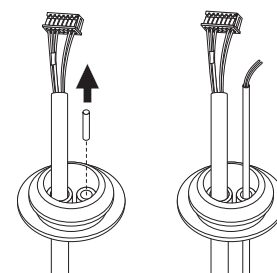


## Podłączanie przewodu audio/alarmu i przewodu zasilającego

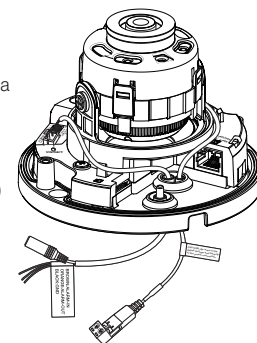
1. Zdjąć pokrywę kopuły oraz puszkę.
2. Zdejmij tuleję kablową na dole, jak pokazano na rysunku.



3. Wyciągnij małą wytłoczoną część tulei kabla alarmu/audio oraz poprowadź kabel zasilania przez tuleję.



4. Poprowadź kabel alarmu/audio przez otwór pozostały po zdjęciu tulei kablowej w kroku 2. Podłącz każdy z nich odpowiednio do złącza alarmu/audio i listwy zaciskowej zasilania na płycie drukowanej.
5. Podczas montażu kamery zawieś kable na haczyku przymocowanym na stałe, aby uniknąć uszkodzenia lub ściśnięcia kabli.
6. Włóż tuleję kabla alarmu/audio do otworu.
7. Ustaw żądany kierunek obiektywu zgodnie ze wskazówkami zawartymi w rozdziale "Regulacja kierunku monitorowania kamery". (Strona 23)
8. Przymocować pokrywę kopuły.



## INSTALACJA (QNV-6072R/6082R)



- 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.

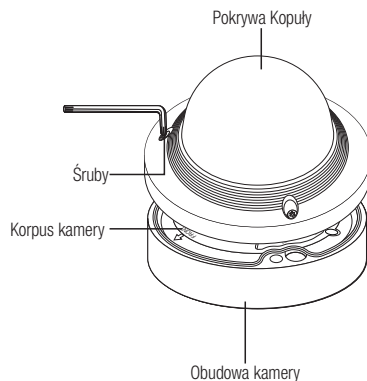
### Środki ostrożności przed montażem

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.
- W przypadku kamery wyposażonej w obiektyw z ręczną regulacją ostrości przed instalacją należy dostosować takie ustawienia, jak ostrość i zoom. Podczas ustawiania ostrości i zoomu należy zachować ostrożność, aby nie zabrudzić obiektywu ciałami obcymi.

### Demontaż

1. Aby zdemontować pokrywę, przy użyciu dołączonego do zestawu klucza w kształcie litery L, poluzuj 3 śruby na pokrywie kopuły, wykręcając je przeciwnie do ruchu wskazówek zegara.



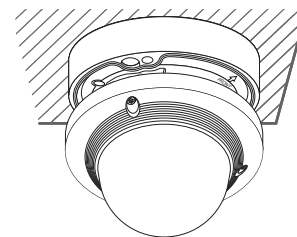
### Instalacja

1. Korzystając z szablonu znajdującego się w zestawie wywiercić otwór (6mm średnicy, 55mm głębokości) i wsunąć znajdujące się w zestawie kołki rozporowe.
2. Dopasuj otwór w podstawie do włożonej kotwy i dokręć Wkręt samogwintujący (M4.5xL50).
3. Podłącz i przygotuj potrzebne przewody, tak aby nie zostały uszkodzone lub skrecone podczas montażu kamery.
4. Ustaw żądany kierunek obiektywu zgodnie ze wskazówkami zawartymi w rozdziale "**Regulacja kierunku monitorowania kamery**". (Strona 23)



- W przypadku kamery wyposażonej w obiektyw z ręczną regulacją ostrości przed instalacją należy dostosować takie ustawienia, jak ostrość i zoom. Podczas ustawiania ostrości i zoomu należy zachować ostrożność, aby nie zabrudzić obiektywu ciałami obcymi.

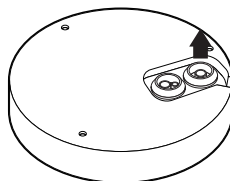
5. Zamknąć pokrywę kopuły.
  - Mocno dokręć śrubę zabezpieczającą przy użyciu klucza w kształcie litery L, aby zapobiec wyciekom wody.



## Podłączanie przewodu LAN

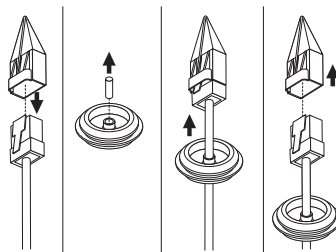
1. Zdjąć pokrywę kopuły oraz puszkę.
2. Zdejmij tuleję kablową na dole, jak pokazano na rysunku.

- ! ■ Przy podłączaniu użyć właściwej tulejki kablowej.  
- Kamera podstawowa: Użyć kabla Ø5~6.5.

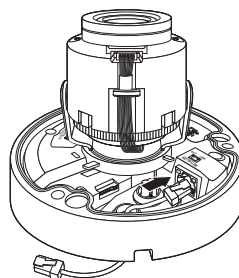


3. Wyciągnij wytłoczoną część dostarczonej tulei z 1 otworem.

4. Użyj narzędzia do instalacji nasadki do poprowadzenia kabla LAN przez tuleję kablową.

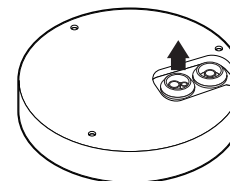


5. Poprowadź kabel LAN przez otwór utworzony po zdjęciu tulei kablowej w kroku 2, a następnie podłącz go do złącza Ethernet.
6. Włóż tuleję kabla LED do otworu.

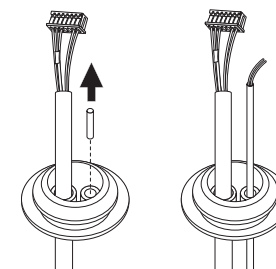


## Podłączanie przewodu audio/alarmu i przewodu zasilającego

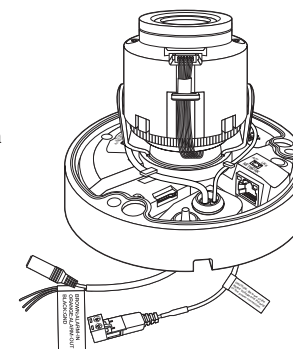
1. Zdjąć pokrywę kopuły oraz puszkę.
2. Zdejmij tuleję kablową na dole, jak pokazano na rysunku.



3. Wyciągnij małą wytłoczoną część tulei kabla alarmu/audio oraz poprowadź kabel zasilania przez tuleję.



4. Poprowadź kabel alarmu/audio przez otwór pozostały po zdjęciu tulei kablowej w kroku 2. Podłącz każdy z nich odpowiednio do złącza alarmu/audio i listwy zaciskowej zasilania na płycie drukowanej.
5. Podczas montażu kamery zawieś kable na haczyku przymocowanym na stałe, aby uniknąć uszkodzenia lub ściśnięcia kabli.
6. Włóż tuleję kabla alarmu/audio do otworu.
7. Ustaw żądany kierunek obiektywu zgodnie ze wskazówkami zawartymi w rozdziale "Regulacja kierunku monitorowania kamery". (Strona 23)
8. Przymocować pokrywę kopuły.



## 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 puszki tak, jak opisano w rozdziale **“Demontaż”**. (Strona 20)
2. Przymocuj obudowę kamery do adaptera dostępnego poza pakietem za pomocą wkrętu do części metalowych.
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 23)
6. Zamknąć pokrywę kopuły.
  - Mocno dokręć śrubę zabezpieczającą przy użyciu klucza w kształcie litery L, aby zapobiec wyciekom wody.

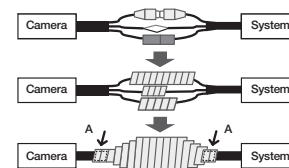
## Montaż na zewnątrz budynku

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.

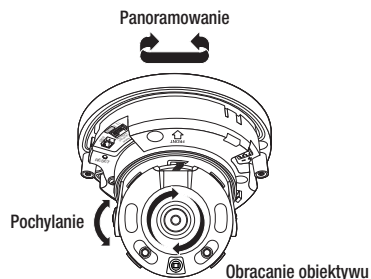
1. Podłączyć kable: zasilania, we/wy (I/O), AUDIO oraz LAN.
2. Taśmą wodoszczelną (z kauczuku butylowego) owinać osłonkę czarnego kabla (Obszar A) oraz obszar złącza kabla, tak aby powstała zakładka szeroka na ponad połowę szerokości użytej taśmy butylowo-kauczukowej.



- 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.



## Regulacja kierunku monitorowania kamery (QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R)



### 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 Panoromowanie, regulowanie pochylenia przy użyciu funkcji Pochylenie, natomiast obracanie obiektywu wzdłuż jego osi jest możliwe dzięki funkcji Obracanie.

- Efektywny zakres panoramowania to łącznie 350 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

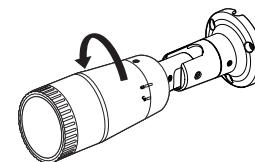
1. Po zamontowaniu kamery wyreguluj kąt panoramowania zgodnie z kierunkiem monitorowania.
2. Ustawić kąt poziomy, tak aby obraz nie był odwrócony.
3. Ustaw kąt pochylenia, tak aby kamera była ustawiona w kierunku monitorowanego obiektu.

## WKŁADANIE/WYJMOWANIE KARTY PAMIĘCI MICRO SD

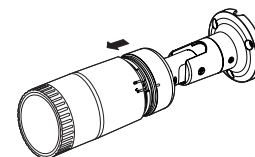
- ! Przed włożeniem karty pamięci Micro SD odłącz kabel zasilania od kamery.
- Nie wkładaj na siłę karty pamięci Micro SD, jeśli jest ona ustawiona odwrotnie. Mogłoby to ją uszkodzić.
- W przypadku deszczu lub wysokiej wilgotności wkładanie i wyjmowanie karty Micro SD nie jest zalecane.
- Pokrywa produktu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

### Wkładanie karty pamięci Micro SD (QNO-6012R/6022R/6032R/6072R/6082R)

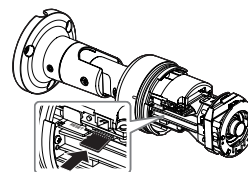
1. Obróć pokrywę przednią w kierunku ODBLOKUJ [↺].



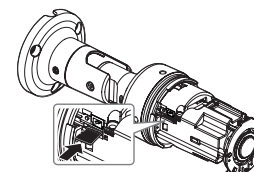
2. Pociągnij przednią pokrywę w celu jej otwarcia.



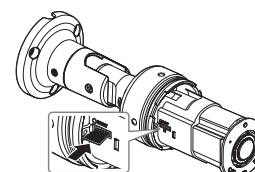
3. Umieść kartę Micro SD w kierunku wskazywanym przez strzałkę na rysunku.



<QNO-6012R/6022R/6032R>



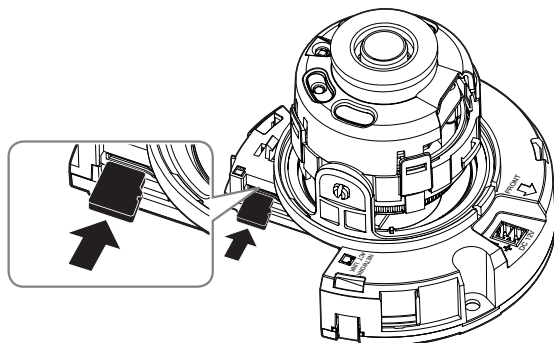
<QNO-6072R>



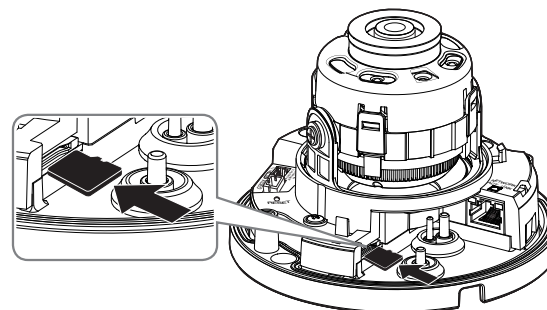
<QNO-6082R>

### Wkładanie karty pamięci Micro SD (QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R)

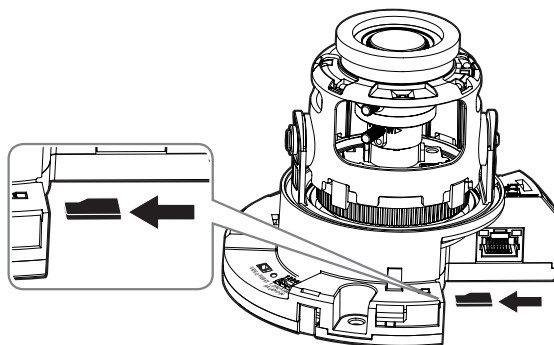
1. Zdejmij pokrywę kopułkową z kamery.
2. Umieść kartę Micro SD w kierunku wskazywanym przez strzałkę na rysunku.



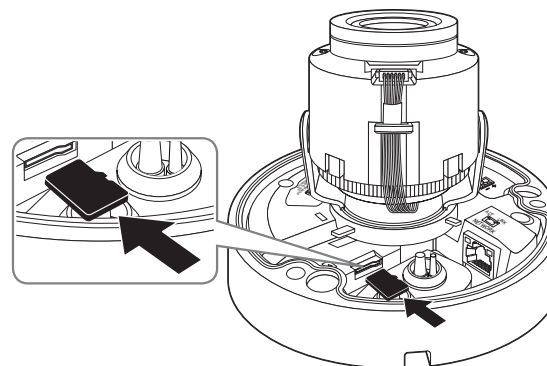
<QND-6012R/6022R/6032R>



<QNV-6012R/6022R/6032R>



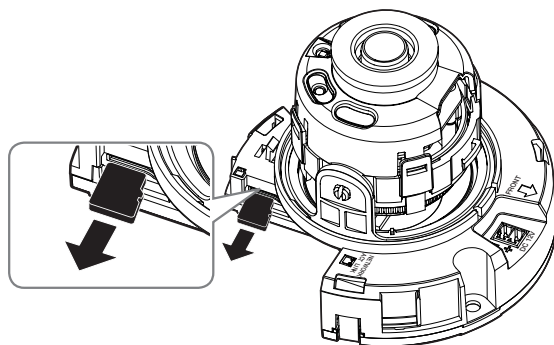
<QND-6072R/6082R>



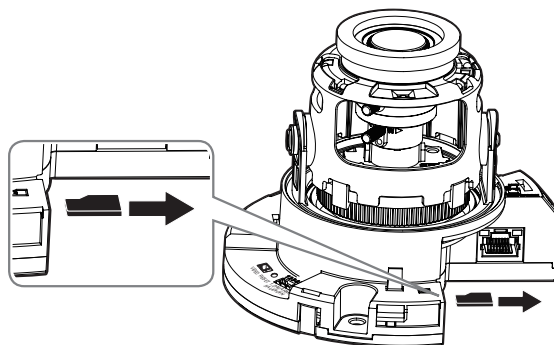
<QNV-6072R/6082R>

## Wymywanie karty pamięci Micro SD

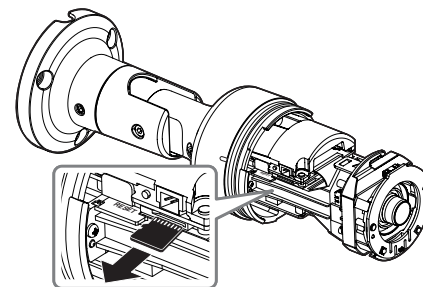
Aby wysunąć kartę pamięci z gniazda, delikatnie naciśnij wystającą jej część tak, jak to jest widoczne na schemacie.



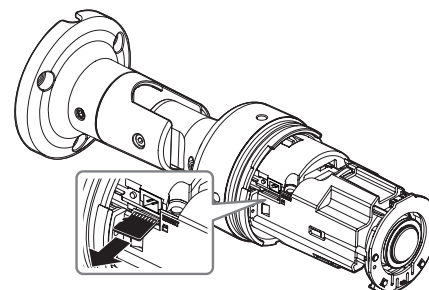
<QND-6012R/6022R/6032R>



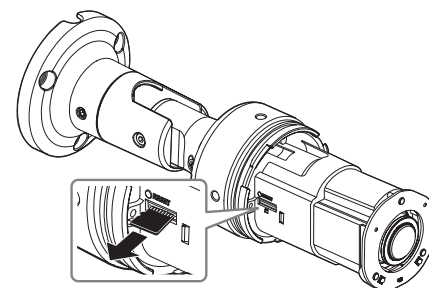
<QND-6072R/6082R>



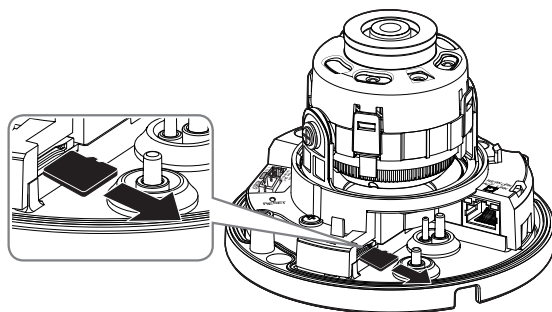
<QNO-6012R/6022R/6032R>



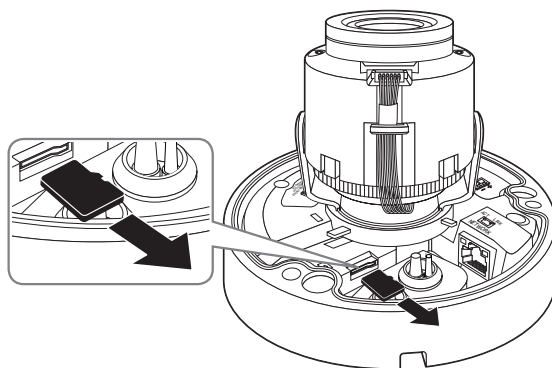
<QNO-6072R>



<QNO-6082R>



<QNV-6012R/6022R/6032R>



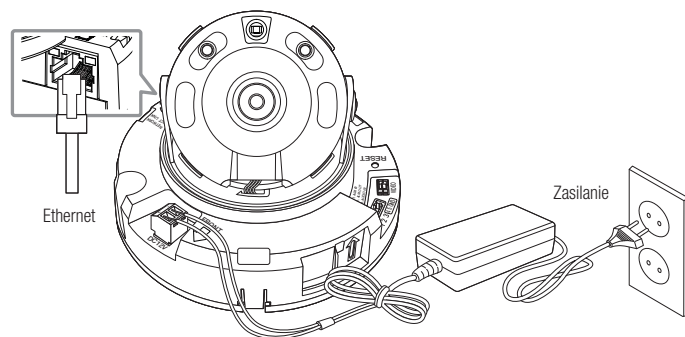
<QNV-6072R/6082R>



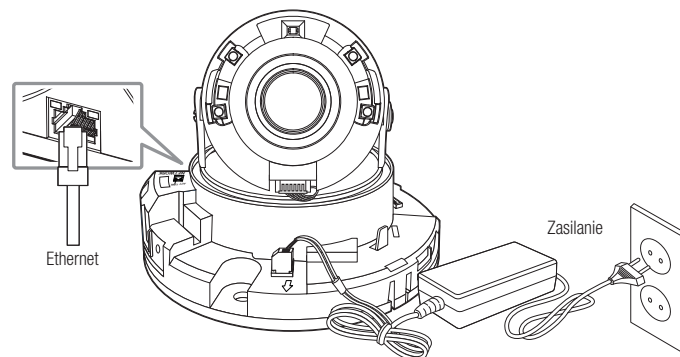
- Zbyt mocne naciśnięcie karty pamięci Micro SD może spowodować niekontrolowane wyrzucenie karty ze szczeliny, po jej zwolnieniu.
- Przed wyjęciem karty pamięci Micro SD w obszarze <Pamięć> dla urządzenia wybierz ustawienie <Wyt.>, naciśnij przycisk [Zastosuj] i wyłącz kamerę.
- W przypadku wyłączenia kamery lub wyjęcia karty pamięci Micro SD, która zawiera dane z produktu, dane te mogą ulec utracie lub zniszczeniu.

## ZASILANIE I PRACA W SIECI

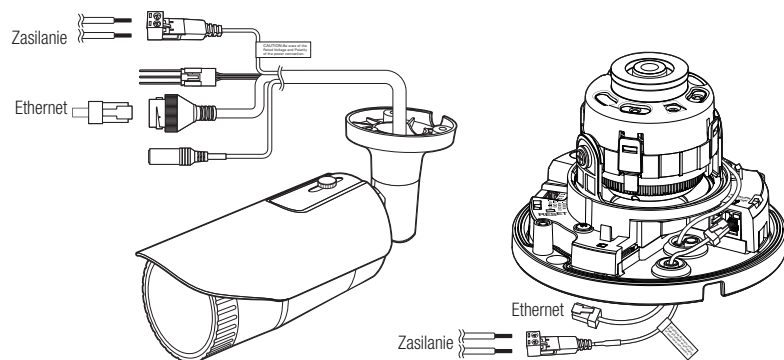
- Przed podłączeniem wtyczki 12 V DC do gniazdka należy najpierw zamontować listwę zaciskową.



<QND-6012R/6022R/6032R>

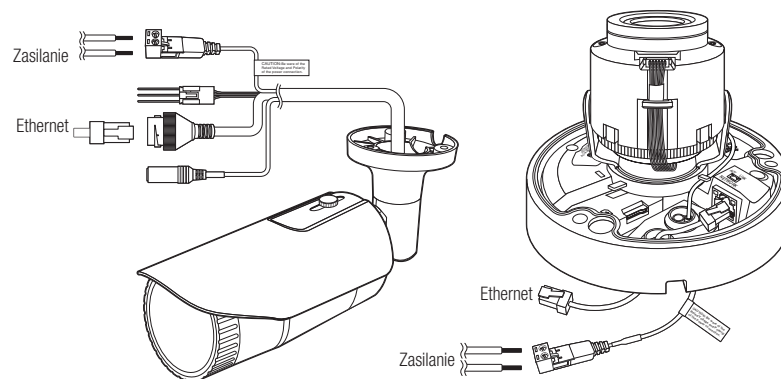


<QND-6072R/6082R>



<QNO-6012R/6022R/6032R>

<QNV-6012R/6022R/6032R>



<QNO-6072R/6082R>

<QNV-6072R/6082R>

## Połączenie typu Ethernet

Podłącz kabel Ethernet do sieci lokalnej lub do Internetu.

## Źródło zasilania

Za pomocą wkrętaka podłącz poszczególne przewody (+, -) kabla zasilającego do odpowiednich portów zasilania kamery.

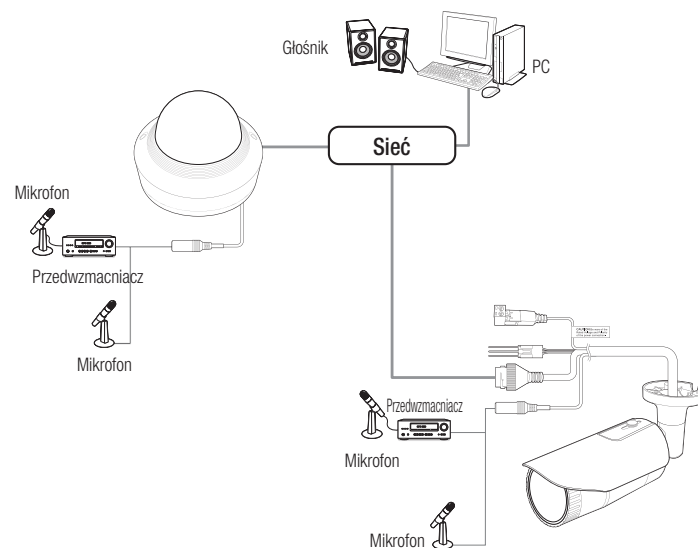
- ! ■ Jeśli zasilanie PoE i 12 V DC są stosowane jednocześnie, produkt będzie zasilany napięciem 12 V DC.
  - Można także użyć routera z funkcją PoE, aby dostarczyć zasilanie do kamery.
  - Użyj funkcji PoE, zgodnej z protokołami IEEE 802.3af.
  - Zaleca się używanie tylko jednego źródła zasilania z PoE i 12 V prądu stałego.
- Podczas podłączania kabla zasilającego należy zwrócić uwagę, aby nie odwrócić biegunowości.
- Aby podłączyć urządzenie zewnętrzne, należy wyłączyć je przed kontynuowaniem.

## Specyfikacja kabla sieciowego

| Przedmiot       | Zawartość    | Uwagi                                           |
|-----------------|--------------|-------------------------------------------------|
| Łącze           | RJ45         |                                                 |
| Ethernet        | 10/100BASE-T | 10/100 Mbps                                     |
| Kabel           | Kategoria 5e |                                                 |
| Odległość maks. | 100M         | Rezystancja prądu stałego $\leq 0,125 \Omega/m$ |
| Obsługa PoE     | IEEE 802.3af |                                                 |

- ! ■ W przypadku zastosowania kabla innego niż kabel zgodny z normą dla kategorii 5e nie można zagwarantować transmisji na odległość 100 m.

## Schemat blokowy wejść audio



1. Połącz port AUDIO IN kamery z mikrofonem lub portem LINE OUT.

- ✎ ■ Model QND obsługuje wyłącznie wbudowany mikrofon.

2. Sprawdź informacje o wyjściu audio w danych technicznych.

### • Kodek Audio

- Wejście audio : G.711 PCM (szybkość transmisji: 64 kb/s / Częstotliwość próbkowania: 8 kHz), G.726 ADPCM (szybkość transmisji: 16 kb/s, 24 kb/s, 32 kb/s, 40 kb/s / Częstotliwość próbkowania: 8 kHz)

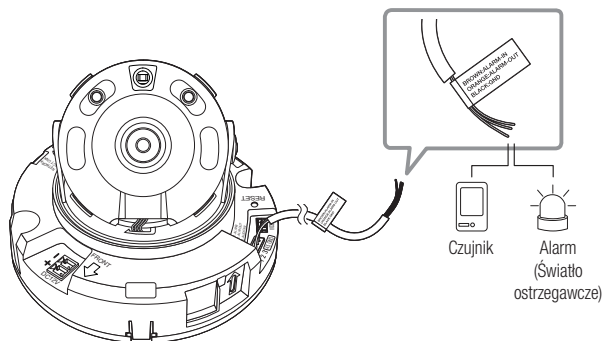
### • Dźwięk w trybie pełnego duplexu

- Wejście audio (QND-6012R/6022R/6032R/6072R/6082R) : wbudowany mikrofon

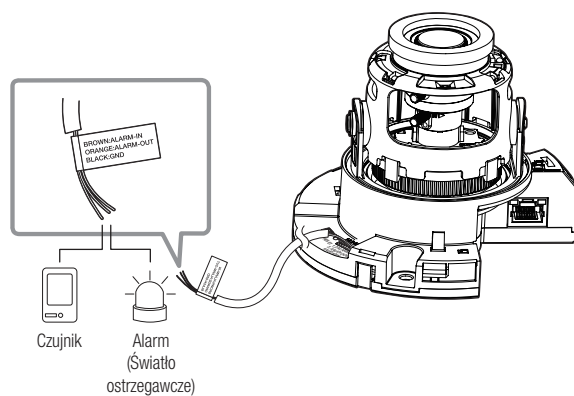
- Wejście audio (QNO-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R) : z możliwością wyboru (mikrofon/liniowe), Obsługiwane napięcie: 2,5 VDC (4 mA), Impedancja wejściowa: 2 kΩ

## Podłączanie gniazd wej./wyj.

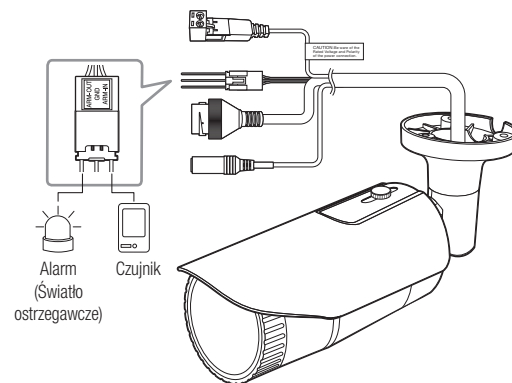
Podłączyć kabel Wej./Wyj./ Alarmu do odpowiedniego portu na obudowie.



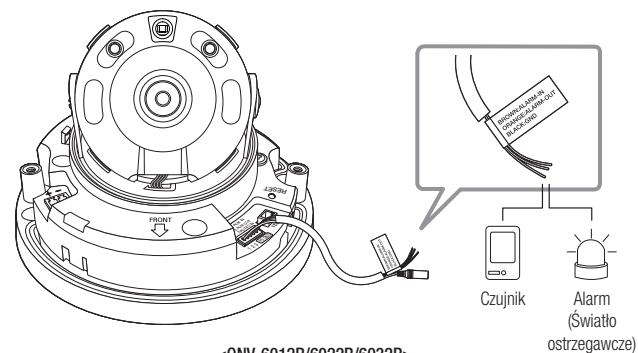
<QND-6012R/6022R/6032R>



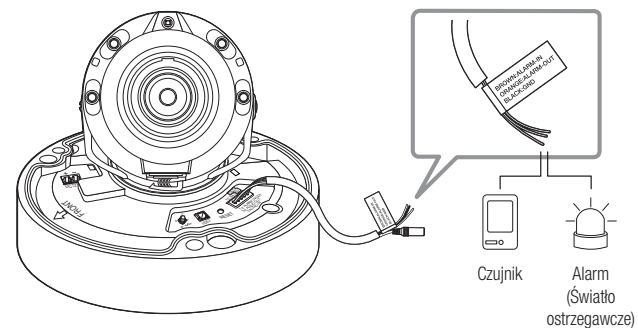
<QND-6072R/6082R>



<QNO-6012R/6022R/6032R/6072R/6082R>



<QNV-6012R/6022R/6032R>



<QNV-6072R>

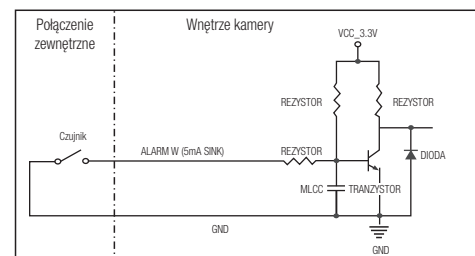
- ALARM-IN : Służy do podłączenia czujnika alarmu lub zewnętrznego czujnika dzień/noc.
- ALARM-OUT : Służy do podłączania sygnału wyjściowego alarmu.
- GND : Wspólny port sygnału wejściowego/wyjściowego alarmu.

! Podłączenie urządzeń (np. światło pulsacyjne oraz alarm dźwiękowy), które przekraczają wartości napięcia i natężenia prądu określone w specyfikacji metodą otwartego kolektora, może spowodować nieprawidłowości w działaniu. Sproszę sprawdzić **"Włącz alarm schematu obwodów"** przy podłączaniu urządzeń, których napięcia zasilania wykraczają ponad podane specyfikacje.

## Podłączanie zewnętrznego czujnika

Podłącz jedną żyłę z każdego przewodu sygnału (dwużyłowego) czujnika do portu **[ALARM IN]** i podłącz pozostałą żyłę przewodu do portu **[GND]**.

## Alarm w schemacie obwodów

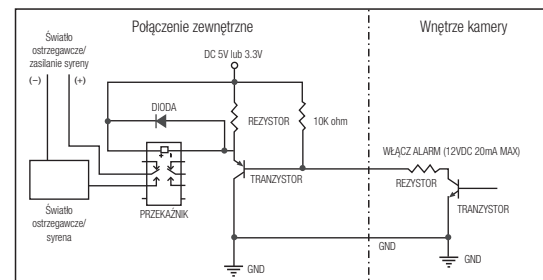


## Aby odłączyć alarm

Podłączenie urządzeń (np. światło pulsacyjne oraz alarm dźwiękowy), które przekraczają wartości napięcia i natężenia prądu określone w specyfikacji metodą otwartego kolektora, może spowodować nieprawidłowości w działaniu.

Sprawdź schemat połączeń alarmów zamieszczony poniżej podczas podłączania urządzenia przekraczającego wskazane znamionowe wartości prądu i napięcia.

## Włącz alarm schematu obwodów

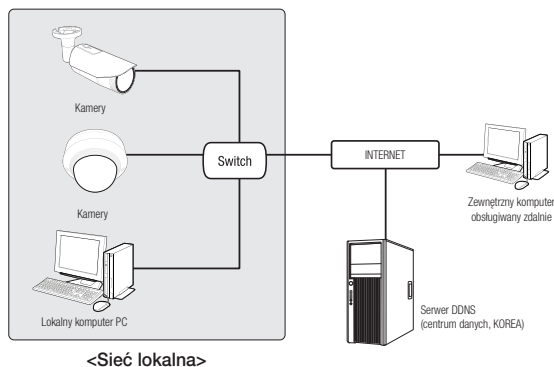


Można skonfigurować ustawienia sieciowe zgodnie z charakterystyką sieci użytkownika.

## PODŁĄCZANIE KAMERY BEZPOŚREDNIO DO SIECI LOKALNEJ

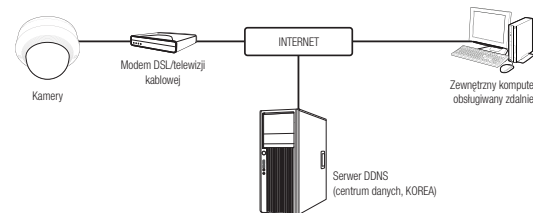
### Podłączanie do kamery lokalnego komputera PC przyłączonego do sieci lokalnej

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 zapora. 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 32)

## 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 zmierz 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.

KORZYSTANIE Z PROGRAMU DEVICE MANAGER

- Program Device Manager można pobrać z menu <Support> – <Online Tool> w witrynie Hanwha Vision (<https://www.hanwhavision.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.

1. Kliknij <Wyszukaj> na stronie głównej programu Device Manager.
2. 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.

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 <Przypisz następujący adres IP>.
  - Informacje IP kamery zostaną wyświetlone zgodnie z poprzednim ustawieniem.
4. 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 video; 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 34)

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>

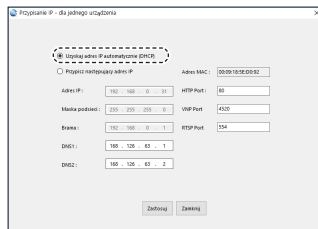
5. Kliknij przycisk [Zastosuj].
6. Jeśli wyświetlona zostanie wiadomość o powodzeniu, kliknij [OK].

## Konfigurowanie dynamicznego IP

Odbierz adres IP z DHCP.

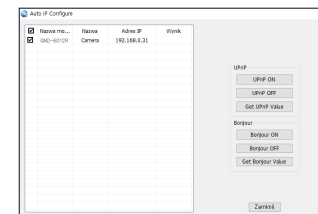
- Przykład środowiska dynamicznego IP
  - Jeżeli do Ruter szerokopasmowy IP z podłączonymi kamerami zostanie przypisany adres IP przez serwer DHCP
  - Jeżeli kamera zostanie podłączona bezpośrednio do xDSL lub modemu kablowego za pomocą protokołów DHCP
  - Jeżeli adresy IP są przypisywane przez wewnętrzny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

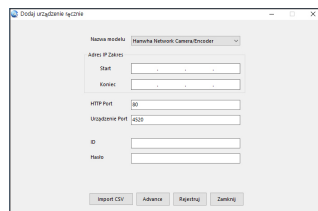
1. Kliknij kamerę z listy dla której chcesz automatycznie skonfigurować IP.
2. Kliknij **< + >** na głównej stronie programu Device Manager.
  - Pojawi się menu ustawień sprzętu.
3. W menu kliknij **<Auto IP Configure (Auto konfiguracja IP)>**.
4. Kliknij przycisk **[Zamknij]**.



## 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.

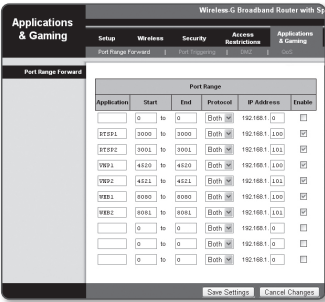


KONFIGUROWANIE PRZEKAZYWANIA ZAKRESU PORTÓW (MAPOWANIA PORTÓW)

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

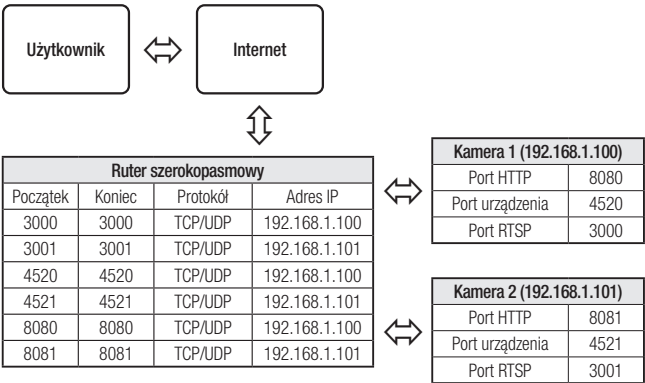
- 1. Z menu Konfiguracja Ruter szerokopasmowy, wybierz opcję <Applications & Gaming> - <Port Range Forward>. W celu ustawienia przekazywania zakresu portów dla rutera innego producenta należy zapoznać się z instrukcją obsługi tego Ruter szerokopasmowy.
  - 2. Wybierz opcję <TCP> oraz <UDP Port> dla każdej kamery podłączonej do Ruter szerokopasmowy. 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 Ruter szerokopasmowy. 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 <DDNS> w "Ustawieniach -> Sieć -> DDNS".

## PODŁĄCZANIE DO KAMERY ZA POMOCĄ UDOSTĘPNIONEGO LOKALNEGO KOMPUTERA

---

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

---

Na komputerze zdalnym, który nie znajduje się w klanstrze 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>

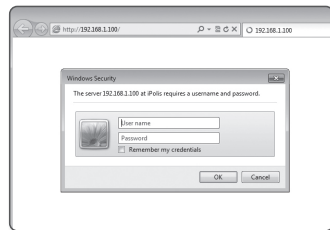


■ Aby korzystać z DDNS, zarejestruj się na stronie głównej DDNS (<http://ddns.hanwha-security.com>) i zarejestruj produkt w [Moje DDNS]> [Zarejestruj Produkt].

## 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 została podłączona bezpośrednio do przewodowego modemu DHCP lub DSL, adres IP będzie zmieniał się przy każdej próbie połączenia się z infrastrukturą dostawcy internetowego (firmy, z którą została podpisana umowa o świadczenie usług komunikacyjnych).

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 <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/małe, 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.

Administrator password change

New password:

Confirm new password:

...If the password is 8 to 9 letters long, then it should be a combination of at least three types upper/lower case alphabets, numbers and special characters.  
...If the password is 10 to 15 letters long, then it should be a combination of at least two types upper/lower case alphabets, numbers and special characters.  
...User name should be different from password.  
...The following special characters are available for use: ~!@#\$%^&\*()-\_+=~"{}|.?/.  
...Don't use 4 or more characters consecutive together. (examples: 1234, abcdef)  
...Don't use 4 or more characters repeated. (examples: IIII, 1111, aaaa)

## LOGOWANIE

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

- Wpisz słowo "admin" w polu <User Name>. ID administratora "admin" jest stałe i nie można go zmienić.
- Wprowadź hasło w polu <Password>.
- 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.

Windows Security

The server 192.168.1.100 at iPolis requires a username and password.

User name:

Password:

☐ Remember my credentials

OK Cancel

## USTAWIANIE PRZEGLĄDARKI INTERNETOWEJ KAMERY

- Kliknij ikonę [Ustawienia (⚙️)].
- Wyświetlone zostanie okno Ustawienia.
- Ustawienia dotyczące podstawowych informacji o kamerze, wideo, dźwięku, sieci, zdarzeń, analizy i systemu można skonfigurować za pośrednictwem sieci.
- Kliknij opcję <Pomoc (?)>, aby wyświetlić szczegółowy opis każdej funkcji.

## ROZWIĄZYWANIE PROBLEMÓW

| PROBLEM                                                                                                                                                                               | ROZWIĄZANIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Jeśli użytkownik systemu Windows 10 uzyska dostęp do przeglądarki Web Viewer za pośrednictwem przeglądarki Chrome lub Firefox, ustawienie głośności mikrofonu zmienia się cyklicznie. | <ul style="list-style-type: none"> <li>Taka sytuacja występuje po wybraniu sterownika Realtek jako sterownika mikrofonu. Jako sterownik mikrofonu zainstaluj sterownik urządzenia dźwięku w wysokiej rozdzielczości (domyślny sterownik systemu Windows) lub sterownik innego producenta.</li> </ul>                                                                                                                                                                                                                                               |
| 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 wyświetlania 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> </ul>                                                                                                                                                                                                                                                                                                                                                |
| Po uzyskaniu dostępu do przeglądarki WebViewer lub po podłączeniu się do transmisji strumieniowej do klienta nie jest wyświetlane żadne wideo.                                        | <ul style="list-style-type: none"> <li>Maksymalna liczba dostępnych profili wynosi 3. Po zastosowaniu co najmniej 4 profili istnieje ryzyko utraty połączenia. Przykład) Po uzyskaniu dostępu do profili MJPEG, H264 i H265, a następnie do innego profilu, połączenie zostanie utracone.</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 multimedialny. 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 multimedialna, sprawdź, czy router w sieci lokalnej, do którego jest podłączona kamera, obsługuje multimedialność.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Głos nie został nagrany pomimo skonfigurowania ustawień wejścia audio.                                                              | <ul style="list-style-type: none"> <li>Zaznacz pole wyboru &lt;Wejście audio&gt; w menu &lt;Podstawowy&gt; - &lt;Profil wideo&gt;.</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: <ul style="list-style-type: none"> <li>A. Sprawdź ustawienia opcji &lt;Data i godzina&gt;.</li> <li>B. Dla opcji &lt;Wykrywanie ruchu&gt; powinno być wybrane ustawienie &lt;Włącz.&gt;.</li> <li>C. Zaznacz, jeśli wybrano użycie opcji &lt;E-mail&gt; w menu &lt;Konfig. zdarzeń&gt;.</li> </ul> </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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|--------------------|---------|--------------------------------------------|
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| Busybox            | GPL 2.0 | http://www.busybox.net/downloads/snapshots |
| iproute2-4.3.0     | GPL 2.0 |                                            |
| iptables-1.4.21    | GPL 2.0 | http://ftp.netfilter.org/pub/iptables      |
| ethtool-4.2        | GPL 2.0 |                                            |
| mtdd-1.5.2         | GPL 2.0 | ftp://ftp.infradead.org/pub/mtdd-utils     |
| mi-diag-2.11       | GPL 2.0 |                                            |
| rp-pppoe-3.11      | GPL 2.0 | http://www.roaringpenguin.com/pppoe/       |
| wpa_supplicant-2.5 | GPL 2.0 |                                            |
| bash-4.3.30        | GPL 3.0 |                                            |
| zerocoinf          | GPL 2.0 |                                            |

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| Component Name | License  | URL                         |
|----------------|----------|-----------------------------|
| glibc          | LGPL 2.0 |                             |
| inetutils      | LGPL 3.0 |                             |
| neon-0.29.6    | LGPL 2.0 | http://www.webdav.org/neon/ |

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revised on December 21, 2006  
revised on March 24, 2009

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Ipert performance test

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



Na wszystkich etapach produkcji firma Hanwha Vision dba o środowisko naturalne i wykonuje wiele działań dążących do dostarczenia klientom produktów niegroźnych dla środowiska.

Oznaczenie „Eco” świadczy o tym, że firma Hanwha Vision 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.

