

# CÂMARA DE REDE

Manual do usuário

QND-8010R/8020R/8030R/8080R

QNV-8010R/8020R/8030R/8080R

QNO-8010R/8020R/8030R/8080R

# Câmara de rede

## Manual do usuário

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### Marca comercial

Cada uma das marcas aqui incluídas se encontram registradas. O nome deste produto e as outras marcas registradas mencionadas neste manual são marcas registradas de sua respectiva companhia.

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❖ Design e especificações estão sujeitos a alterações sem aviso prévio.

❖ O ID inicial de administrador é “admin” e a senha deverá ser definida ao fazer o logon pela primeira vez.

Por favor, mude sua senha a cada três meses para proteger suas informações pessoais de forma segura e para evitar os prejuízos causados pelo roubo de informação.

Repare, por favor, que a segurança e quaisquer outros problemas causados pelo mau gerenciamento de senhas é da responsabilidade do usuário.

## INSTRUÇÕES IMPORTANTES DE SEGURANÇA

1. Leia estas instruções.
2. Guarde estas instruções.
3. Preste atenção a todos os avisos.
4. Siga todas as instruções.
5. Não utilize este leitor próximo à água.
6. Limpe a área contaminada na superfície do produto com um pano macio e seco ou úmido. (Não use detergentes ou produtos cosméticos que contenham álcool, solventes, tensoativos ou componentes de óleo pois eles podem deformar ou causar danos no produto.)
7. Não bloqueie as aberturas de ventilação. Instale de acordo com as instruções do fabricante.
8. Não o instale perto de fontes de calor, como radiadores, sistemas de aquecimento ou outros aparelhos que produzam calor, (incluindo amplificadores).
9. O plugue polarizado ou de aterramento desempenha uma importante função de segurança. Um plugue polarizado contém duas lâminas com uma mais larga do que a outra. Um plugue do tipo-terra contém duas lâminas e um terceiro pino de aterramento. A lâmina larga ou o terceiro pino são fornecidos para sua segurança. Se o plugue fornecido não encaixar na tomada, chame um electricista para trocar a tomada inadequada.
10. O cabo de alimentação deve ser posicionado de maneira que não seja deformado nem comprimido, especialmente nos plugues, em tomadas elétricas e nos pontos de saída do leitor.
11. Utilize apenas conexões / acessórios especificados pelo fabricante.
12. Utilize apenas carrinhos, bases, tripés, suportes ou mesas especificados pelo fabricante ou vendidos com o leitor. Ao utilizar um carrinho, tenha cuidado ao deslocá-lo com o leitor, para evitar ferimentos caso tombem.
13. Desligue este leitor da tomada durante tempestades com raios ou quando não for utilizá-lo por um longo período.
14. Todos os serviços de manutenção devem ser executados por técnicos qualificados. A manutenção será necessária quando o leitor for danificado de alguma forma, como danos ao cabo de alimentação ou plugue, derramamento de líquidos ou queda de objetos sobre o leitor, exposição à chuva ou umidade, mau funcionamento ou queda.
15. Este produto tem o objetivo de ser uma unidade de fonte de alimentação marcada como "Classe 2" ou "LPS" e classificada de PoE(48V), 0,16A. (QNO-8010R/8020R/8030R)
16. Este produto tem o objetivo de ser uma unidade de fonte de alimentação marcada como "Classe 2" ou "LPS" e classificada de PoE(48V), 0,2A. (QNV-8080R)
17. Este produto tem o objetivo de ser uma unidade de fonte de alimentação marcada como "Classe 2" ou "LPS" e classificada de PoE(48V), 0,14A. (QND-8020R/8030R)
18. Este produto tem o objetivo de ser uma unidade de fonte de alimentação marcada como "Classe 2" ou "LPS" e classificada de PoE(48V), 0,15A. (QNV-8020R/8030R)
19. Este produto tem o objetivo de ser uma unidade de fonte de alimentação marcada como "Classe 2" ou "LPS" e classificada de PoE(48V), 0,16A. (QND-8010R/QNV-8010R)
20. Este produto tem o objetivo de ser uma unidade de fonte de alimentação marcada como "Classe 2" ou "LPS" e classificada de PoE(48V), 0,19A. (QND-8080R/QNV-8080R)
21. Este produto tem o objetivo de ser fornecido com energia de isolamento.
22. Se você usar força excessiva ao instalar o produto, a câmera pode ficar danificada e avariada. Você pode danificar o produtos ao instalá-lo à força, usando ferramentas incompatíveis.
23. Não instale o produto em um local onde existem ou podem ser geradas substâncias químicas ou névoa de óleo. Como os óleos comestíveis como óleo de soja podem danificar ou deformar o produto, não instale o produto na cozinha ou perto da mesa da cozinha. Isso pode danificar o produto.



24. Ao instalar o produto, tenha cuidado para não permitir que a superfície do produto seja manchada com alguma substância química. Alguns solventes químicos tais como purificadores ou adesivos podem causar danos na superfície do produto.
25. Se você instalar/desmontar o produto de uma forma que não a recomendada, as funções de produção/desempenho não podem ser garantidas. Instale o produto consultando "Instalação e conexão" no manual do usuário.
26. Instalar ou usar o produto na água pode causar danos sérios no produto.
27. Apesar de uma rápida mudança de temperatura poder causar congelamento dentro da caixa, não haverá nenhum problema com o vídeo.

## AVISO

PARA REDUZIR O RISCO DE INCÊNDIO OU CHOQUE ELÉTRICO, NÃO EXPONHA ESTE PRODUTO À CHUVA OU UMIDADE. NÃO INSIRA OBJETOS METÁLICOS PELAS GRADES DE VENTILAÇÃO OU POR OUTROS ORIFÍCIOS NO EQUIPAMENTO.

O aparelho não deve ser exposto a goteiras ou respingos e não deve servir de base para recipientes com líquido, como vasos.

Para evitar ferimentos, este aparelho deve ser conectado com firmeza à parede/teto de acordo com as instruções de instalação.

## CUIDADO

|                                                                                                                                                                                                                                                                   |                                                            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--|
|                                                                                                                                                                                                                                                                   | <b>CUIDADO</b><br><b>RISCO DE CHOQUE ELÉTRICO NÃO ABRA</b> |  |
| <b>CUIDADO : PARA REDUZIR O RISCO DE CHOQUE ELÉTRICO, NÃO REMOVA A TAMPA (OU PARTE TRASEIRA).</b><br><b>NÃO EXISTEM PEÇAS INTERNAS QUE POSSAM SER REPARADAS PELO USUÁRIO.</b><br><b>OS SERVIÇOS DE MANUTENÇÃO DEVEM SER EXECUTADOS POR TÉCNICOS QUALIFICADOS.</b> |                                                            |  |

## EXPLICAÇÃO DOS SÍMBOLOS GRÁFICOS



O raio com uma seta na ponta dentro de um triângulo equilátero destina-se a alertar o usuário sobre a presença de "tensão perigosa" dentro da caixa do produto, cuja grandeza talvez seja suficiente para constituir risco de choque elétrico nas pessoas.



O ponto de exclamação dentro de um triângulo equilátero tem o objetivo de alertar o usuário sobre a presença de importantes instruções de operação e manutenção (serviço) na literatura que acompanha o produto.

Construção de Classe I

Um aparelho com construção de CLASSE I deve ser conectado a uma tomada elétrica com uma conexão de terra para proteção.

Bateria

As baterias(a unidade da bateria ou baterias instaladas) não devem ser expostas a calor excessivo, como luz do sol, fogo ou situações semelhantes.

A bateria não pode ser substituída.

Dispositivo de desconexão

Desconecte o plugue de fonte de alimentação do aparelho, se estiver com defeito. E chame um técnico de reparos em seu local.

**Fora dos Estados Unidos, ele poderá ser usado; o código HAR com adaptações de uma agência aprovada é empregado.**

CUIDADO

Risco de explosão se a bateria for substituída por um tipo incorreto de bateria. Descarte as baterias usadas de acordo com as instruções.

Estas instruções de manutenção devem ser praticadas apenas pela equipe técnica qualificada. Para reduzir o risco de choque elétrico, não execute qualquer outra manutenção que não seja a contida nas instruções de operação, a menos que você seja qualificado para executá-la.

Use a energia de entrada apenas com uma câmera e outros dispositivos não devem estar conectados.

**O ITE deve ser conectado apenas para redes PoE sem roteamento para a planta exterior.**

Leia as seguintes precauções recomendadas de segurança com atenção.

- Não coloque este aparelho em uma superfície irregular.
- Não o instale em uma superfície onde ficará exposto à luz direta do sol, perto de equipamentos que emitem calor ou áreas extremamente frias.
- Não coloque este aparelho próximo de materiais condutores.
- Não tente reparar pessoalmente este aparelho.
- Não coloque um copo de água sobre o produto.
- Não o instale perto de fontes magnéticas.
- Não bloqueie as aberturas de ventilação.
- Não coloque objetos pesados sobre o produto.
- Por favor, use luvas protetoras ao instalar/remover a câmera.  
A alta temperatura da superfície do produto pode causar queimaduras.

O Manual do Usuário é um guia contendo informações sobre como usar o produto.

O significado dos símbolos no manual é o seguinte.

- Referência: caso existam informações que ajudam a usar o produto
- Nota: caso exista qualquer possibilidade de ocorrerem danos ao produto e ao ser humano causados pelo não cumprimento das instruções
- ※ Leia este manual quanto aos itens de segurança antes de usar o produto e mantenha-o em local seguro.

Em ambientes de instalação específicos, pode haver interferência em comunicações de rádio. Quando ocorrer interferência de ondas eletromagnéticas entre o produto e o dispositivo de comunicação de rádio, recomenda-se manter uma certa distância entre os dois ou alterar a direção da antena de recebimento.

AVISO

Para prevenir possíveis danos causados por IR LED, não olhe diretamente para a luz de operação.

Somente para os modelos abaixo.

QND-8010R/8020R/8030R/8080R  
QNV-8010R/8020R/8030R/8080R  
QNO-8010R/8020R/8030R/8080R

| Grupo de risco 1                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------|
| <b>AVISO: IR (raios infravermelhos) são emitidos por este produto.<br/>Não olhe diretamente para a luz de operação.</b> |
| Produto testado de acordo com a IEC 62471                                                                               |

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ESPECIFICAÇÕES RECOMENDADAS PARA PC

- CPU : Intel(R) Core(TM) i7 3,4 GHz ou superior
- RAM : 8Gb ou superior
- SO suportado : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14
- Navegador recomendado: Google Chrome
- Navegadores suportados: MS Explore11, MS Edge, Mozilla Firefox(apenas Windows 64bit), Apple Safari(Apenas Mac OS X)
- VGA : Placa gráfica de vídeo PCIe 256MB GDDR3 ou superior
  - ※ Consulte o apêndice para informações detalhadas sobre sistemas operativos e navegadores verificados.

ESPECIFICAÇÕES DE CARTÃO DE MEMÓRIA MICRO SD/SDHC/SDXC

- Capacidade recomendada: 16GB a 128GB (tipo MLC)
- Fabricantes recomendados: SanDisk, Transcend
- Tipo de produto: Alta resistência
- A compatibilidade varia de acordo com os fabricantes e tipos de cartões.

ESPECIFICAÇÕES RECOMENDADAS POR NAS

- Capacidade recomendada : É recomendado 200 GB ou superior.
- Acesso simultâneo : Uma unidade de NAS pode aceitar o máximo de dezesseis acessos de câmeras.
- Para esta câmera, é recomendado o uso de um NAS com as seguintes especificações do fabricante.

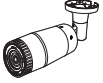
| Produtos recomendados | Tamanhos disponíveis                                   |
|-----------------------|--------------------------------------------------------|
| QNAP NAS              | Um máximo de 16 câmeras podem acessar simultaneamente. |
| NAS Synology          | Um máximo de 16 câmeras podem acessar simultaneamente. |



▪ Se usar o equipamento da NAS para outros fins que não salvar vídeo, o número de câmeras acessíveis pode ser reduzido.

## ITENS FORNECIDOS

Verifique se sua câmera e os acessórios estão inclusos no pacote do produto.  
(Dado que para cada país de vendas, os acessórios não são os mesmos.)

| Aparência                                                                          | Nome do item                          | Quantidade | Descrição                                      | Nome do modelo                                                                                          |
|------------------------------------------------------------------------------------|---------------------------------------|------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|   | Câmera                                | 1          |                                                | QND-8010R/8020R/<br>8030R/8080R                                                                         |
|   |                                       | 1          |                                                | QNO-8010R/8020R/<br>8030R/8080R                                                                         |
|   |                                       | 1          |                                                | QNV-8010R/8020R/<br>8030R/8080R                                                                         |
|   | Guia de consulta rápida<br>(Opcional) | 1          |                                                | QND-8010R/8020R/<br>8030R/8080R,<br>QNV-8010R/8020R/<br>8030R/8080R,<br>QNO-8010R/8020R/<br>8030R/8080R |
|   | Gabarito                              | 1          | Guia de instalação do produto                  | QND-8010R/8020R/<br>8030R/8080R,<br>QNV-8010R/8020R/<br>8030R/8080R,<br>QNO-8010R/8020R/<br>8030R/8080R |
|   | Chave inglesa L                       | 1          | Usado para controlar a direção da câmera       | QNO-8010R/8020R/<br>8030R/8080R,                                                                        |
|  | Chave em L (estrela)                  | 1          | Usado para remover e recolocar a tampa do dome | QNV-8010R/8020R/<br>8030R/8080R,                                                                        |

| Aparência                                                                             | Nome do item                          | Quantidade | Descrição                                                                        | Nome do modelo                                                                                          |
|---------------------------------------------------------------------------------------|---------------------------------------|------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|    | Cabo de alarme                        | 1          | Usado quando conectado a um alarme                                               | QND-8010R/8020R/<br>8030R/8080R                                                                         |
|    | Cabo de alarme                        | 1          | Usado quando conectado a um alarme                                               | QNV-8010R/8020R/<br>8030R/8080R                                                                         |
|    | Acessório impermeável RJ45            | 1          | Usado em instalações em locais úmidos                                            | QNO-8010R/8020R/<br>8030R/8080R                                                                         |
|    | Protetor solar                        | 1          | Protege a câmera da luz direta do sol.                                           | QNO-8010R/8020R/<br>8030R/8080R                                                                         |
|    | Parafuso de fixação da proteção solar | 1          | Fixa o protetor solar à câmera.                                                  | QNO-8010R/8020R/<br>8030R/8080R                                                                         |
|    | Cabo do monitor de teste              | 1          | Usado para testar a conexão da câmera a um dispositivo de exibição portátil      | QND-8010R/8020R/<br>8030R/8080R,<br>QNV-8010R/8020R/<br>8030R/8080R,<br>QNO-8010R/8020R/<br>8030R/8080R |
|    | Bucha do cabo                         | 1          | Usada para conectar o cabo LAN                                                   | QNV-8010R/8020R/<br>8030R/8080R                                                                         |
|  | Instalador de tampa                   | 1          |                                                                                  |                                                                                                         |
|  | Parafusos da máquina                  | 2          | Parafusos usados para a montagem da sua câmera no suporte suspenso, GangBox etc. | QND-8010R/8020R/<br>8030R/8080R                                                                         |

Acessórios opcionais para instalação

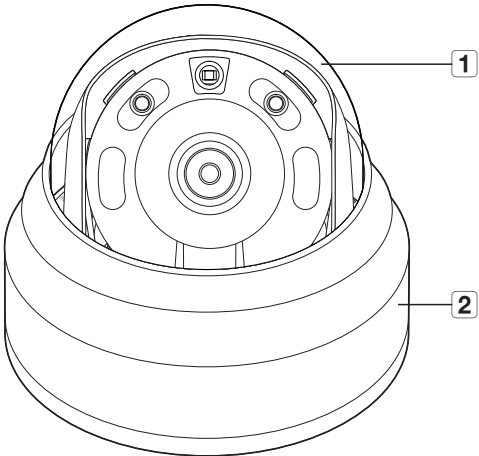
Para uma instalação fácil, você pode adquirir os acessórios opcionais apropriados disponíveis.



| Nome do modelo                  | Montagem suspensa | Caixa posterior | Montagem de haste | Tudo                                  |
|---------------------------------|-------------------|-----------------|-------------------|---------------------------------------|
| QNV-8010R/8020R/8030R           | SBP-122HMMW       | SBV-120GW       |                   | SBP-300LMW<br>(Montagem em parapeito) |
| QNV-8080R                       | SBP-301HMMW2      | SBV-136BW       |                   | SBP-300CMW<br>(Montagem de teto)      |
| QND-8010R/8020R/8030R           | SBP-300HMMW7      |                 |                   | SBP-300WMW1<br>(Montagem de parede)   |
| QND-8080R                       | SBP-122HMMW       |                 |                   | SBP-300NBW<br>(Caixa de instalação)   |
| QNO-8010R/8020R/<br>8030R/8080R |                   | SBO-100B1       | SBP-302PM         | SBP-300PMW<br>(Montagem de haste)     |
| QNO-8080R                       |                   | SBO-126B        |                   | SBP-300KMW<br>(Montagem de canto)     |

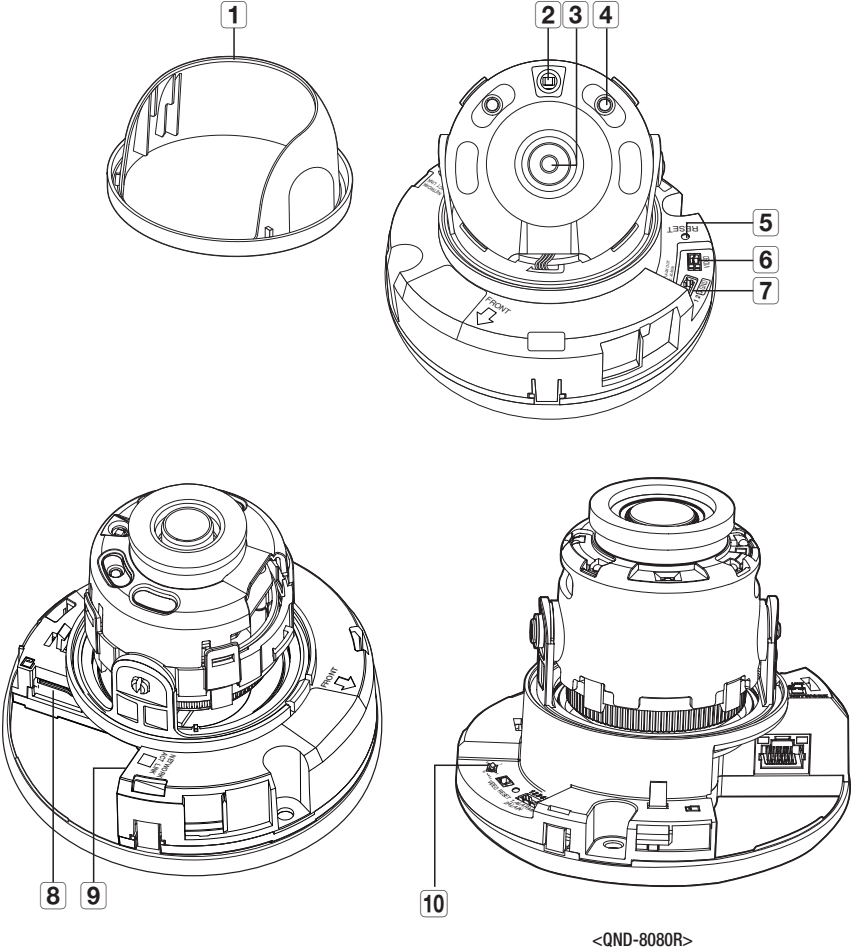
INFORMAÇÕES RESUMIDAS (QND-8010R/8020R/8030R/8080R)

Aparência



| Item              | Descrição                                                         |
|-------------------|-------------------------------------------------------------------|
| 1 Tampa do Dome   | Tampa da caixa usada para proteger a lente e a unidade principal. |
| 2 Caixa da câmera | Parte da caixa que cobre o corpo da câmera.                       |

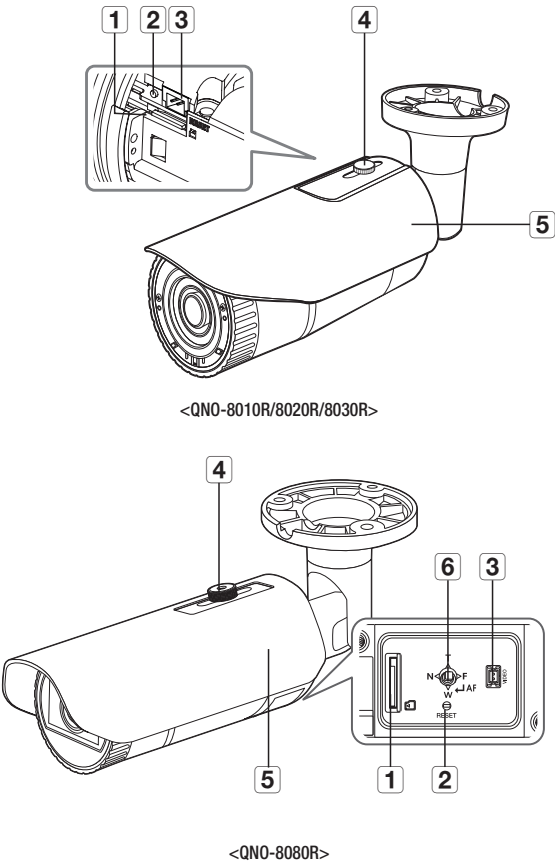
Componentes



| Item | Descrição                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Cobertura interior                             | Cobertura protetora para o corpo principal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2    | Sensor de iluminação                           | Detecta a luz de entrada para controlar o LED de IV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3    | Lente                                          | Lentes da câmera.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4    | LED de IV                                      | Esses LEDs de infravermelho são controlados pelo sensor de iluminação.<br>(O número de lâmpadas LED pode variar de acordo com o modelo).                                                                                                                                                                                                                                                                                                                                                                                       |
| 5    | Botão Reset                                    | O botão restaura todas as configurações da câmera com os valores padrão de fábrica. Pressione e mantenha pressionado por cerca de 5 segundos para reiniciar o sistema.<br><b>■</b> Se você reinicializar a câmera, as configurações de rede serão ajustadas para que o DHCP possa ser ativado. Se não houver servidor DHCP na rede, você deve executar o programa Device Manager para alterar as configurações básicas da rede, como o endereço IP, a máscara de sub-rede, o gateway etc., antes que possa se conectar à rede. |
| 6    | Teste da saída do monitor                      | Porta de saída para testar o monitoramento da saída de vídeo. Utilize o cabo de teste do monitor para se conectar a um visor móvel e verificar o vídeo de teste.                                                                                                                                                                                                                                                                                                                                                               |
| 7    | Porta de E/S de alarme                         | ARM-OUT<br>Usada para conectar o sinal de saída de alarme.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|      |                                                | ARM-IN<br>Usado para conectar o sensor de entrada do alarme ou o sensor externo de dia/noite.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|      |                                                | GND<br>Estas são as portas comuns para conectar sinais de entrada/saída de alarme.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 8    | Compartimento para cartões de memória Micro SD | Compartimento para cartões de memória Micro SD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9    | Conector PoE                                   | Conecta à rede e fornece energia através de uma cabo Ethernet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 10   | Botão de controle de Zoom/Focagem              | T<br>Ampliar (aproximar imagem) (Tele)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|      |                                                | W<br>Reduzir (afastar imagem) (Grande Angular)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                | N<br>Focar em um objeto próximo (Perto)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|      |                                                | F<br>Focar em um objeto distante (Longe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|      |                                                | Controle de Foco<br>Pressione o botão para controle automático de foco.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

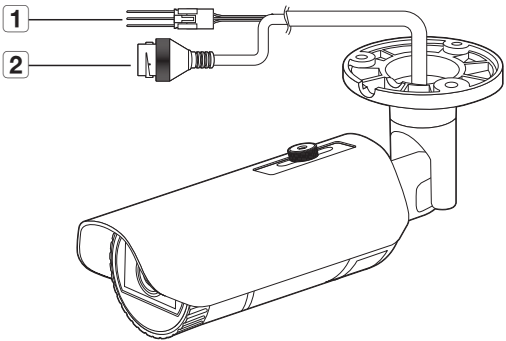
INFORMAÇÕES RESUMIDAS (QNO-8010R/8020R/8030R/8080R)

Aparência



| Item | Descrição                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Ranhura para cartão Micro SD          | (Espaço interno do produto) Esta é uma ranhura na qual você pode inserir um cartão Micro SD.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2    | Botão Reset                           | O botão restaura todas as configurações da câmera com os valores padrão de fábrica. Pressione e mantenha pressionado por cerca de 5 segundos para reiniciar o sistema.<br><b>!</b> Se você reinicializar a câmera, as configurações de rede serão ajustadas para que o DHCP possa ser ativado. Se não houver servidor DHCP na rede, você deve executar o programa Device Manager para alterar as configurações básicas da rede, como o endereço IP, a máscara de sub-rede, o gateway etc., antes que possa se conectar à rede. |
| 3    | Teste da saída do monitor             | Porta de saída para testar o monitoramento da saída de vídeo. Utilize o cabo de teste do monitor para se conectar a um visor móvel e verificar o vídeo de teste.                                                                                                                                                                                                                                                                                                                                                               |
| 4    | Parafuso de fixação da proteção solar | Fixa o protetor solar à câmera.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5    | Protetor solar                        | Protege a câmera da luz direta do sol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6    | Botão de controle de Zoom/Focagem     | T Ampliar (aproximar imagem) (Tele)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|      |                                       | W Reduzir (afastar imagem) (Grande Angular)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|      |                                       | N Focar em um objeto próximo (Perto)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|      |                                       | F Focar em um objeto distante (Longe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|      |                                       | Controle de Foco Pressione o botão para controle automático de foco.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

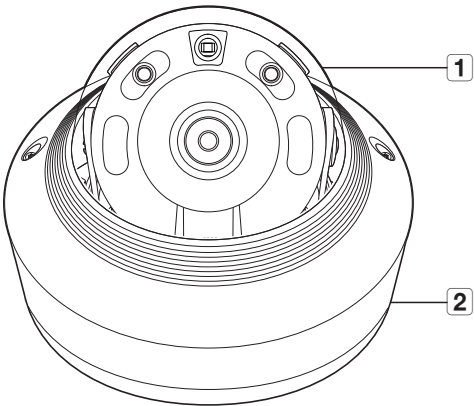
Componentes



| Item |                        | Descrição                                                                                     |
|------|------------------------|-----------------------------------------------------------------------------------------------|
| 1    | Porta de E/S de alarme | ARM-OUT<br>Usada para conectar o sinal de saída de alarme.                                    |
|      |                        | ARM-IN<br>Usado para conectar o sensor de entrada do alarme ou o sensor externo de dia/noite. |
|      |                        | GND<br>Estas são as portas comuns para conectar sinais de entrada/saída de alarme.            |
| 2    | Conector PoE           | Conecta à rede e fornece energia através de uma cabo Ethernet.                                |

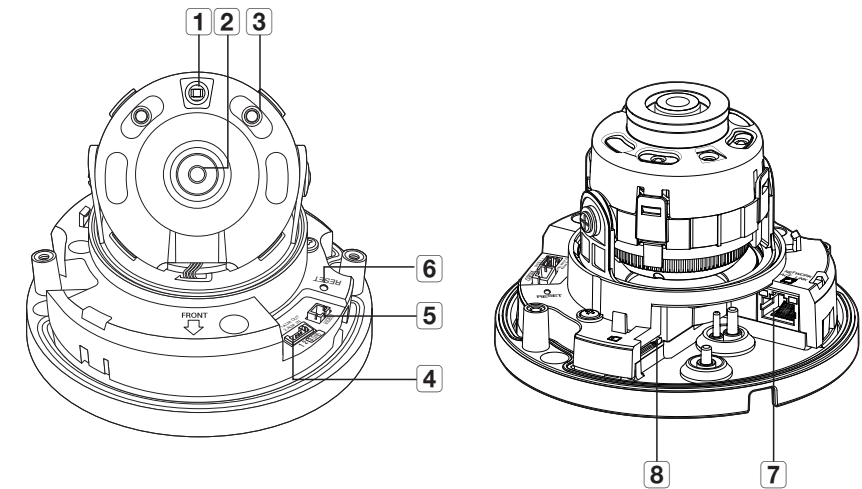
INFORMAÇÕES RESUMIDAS (QNV-8010R/8020R/8030R/8080R)

Aparência

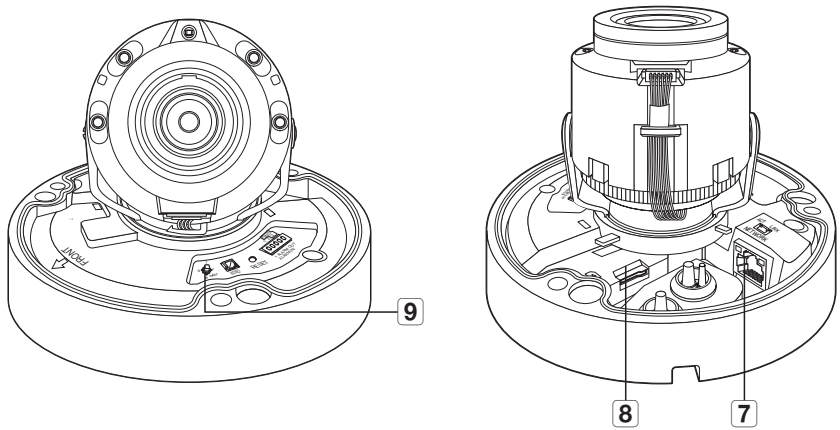


| Item |                 | Descrição                                                         |
|------|-----------------|-------------------------------------------------------------------|
| 1    | Tampa do Dome   | Tampa da caixa usada para proteger a lente e a unidade principal. |
| 2    | Caixa da câmera | Parte da caixa que cobre o corpo da câmera.                       |

Componentes



<QNV-8010R/8020R/8030R>



<QNV-8080R>

| Item                                             | Descrição                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1 Sensor de iluminação                           | Detecta a luz de entrada para controlar o LED de IV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |
| 2 Lente                                          | Lentes da câmera.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |
| 3 LED de IV                                      | Esses LEDs de infravermelho são controlados pelo sensor de iluminação.<br>(O número de lâmpadas LED pode variar de acordo com o modelo).                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                     |
| 4 Porta de E/S de alarme                         | ARM-OUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Usada para conectar o sinal de saída de alarme.                                     |
|                                                  | ARM-IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Usado para conectar o sensor de entrada do alarme ou o sensor externo de dia/noite. |
|                                                  | GND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Estas são as portas comuns para conectar sinais de entrada/saída de alarme.         |
| 5 Teste da saída do monitor                      | Porta de saída para testar o monitoramento da saída de vídeo. Utilize o cabo de teste do monitor para se conectar a um visor móvel e verificar o vídeo de teste.                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |
| 6 Botão Reset                                    | <p>O botão restaura todas as configurações da câmera com os valores padrão de fábrica. Pressione e mantenha pressionado por cerca de 5 segundos para reiniciar o sistema.</p> <p><b>ⓘ</b> Se você reinicializar a câmera, as configurações de rede serão ajustadas para que o DHCP possa ser ativado. Se não houver servidor DHCP na rede, você deve executar o programa Device Manager para alterar as configurações básicas da rede, como o endereço IP, a máscara de sub-rede, o gateway etc., antes que possa se conectar à rede.</p> |                                                                                     |
| 7 Conector PoE                                   | Conecta à rede e fornece energia através de uma cabo Ethernet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |
| 8 Compartimento para cartões de memória Micro SD | Compartimento para cartões de memória Micro SD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |
| 9 Botão de controle de Zoom/Focagem              | T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ampliar (aproximar imagem) (Tele)                                                   |
|                                                  | W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Reduzir (afastar imagem) (Grande Angular)                                           |
|                                                  | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Focar em um objeto próximo (Perto)                                                  |
|                                                  | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Focar em um objeto distante (Longe)                                                 |
|                                                  | Controle de Foco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pressione o botão para controle automático de foco.                                 |

## INSTALAÇÃO (QND-8010R/8020R/8030R/8080R)

### Precauções antes da instalação

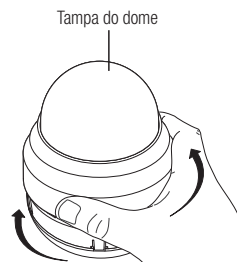
Certifique-se de ler as seguintes instruções antes de instalar a câmera:

- Deve ser instalada em área (teto ou parede) que possa suportar 5 vezes o peso da câmera incluindo o suporte de instalação.
- Cabos presos ou desencapados podem causar danos ao produto ou um incêndio.
- Por motivos de segurança, mantenha outras pessoas longe do local de instalação. E coloque os pertences pessoais longe do local, apenas por precaução.

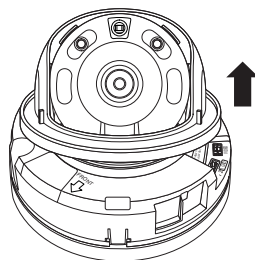
### Desmontando

1. Use uma mão para segurar a parte inferior da câmera e gire a tampa no sentido anti-horário com a outra mão para a separar.

-  ■ Não toque na parte transparente da tampa após remover o filme de proteção.

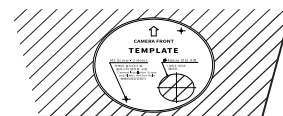


2. Levante a tampa interna para a separar.



### Instalação

1. Leve em conta a direção a ser monitorizada, fixe o modelo e faça os furos observando o seguinte modelo.

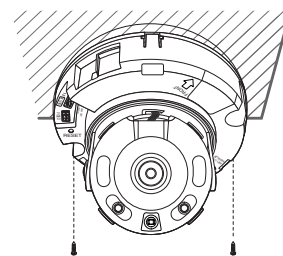


2. Usando 2 parafusos, prenda a câmera nos 2 orifícios furados com um modelo.

- Defina a marca < > impressa na câmera para apontar na direção do monitoramento da câmera.

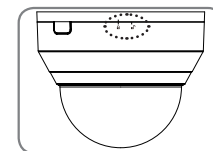
3. Conecte o terminal interno da câmera ao cabo correspondente.

4. Ajuste a lente em uma direção desejada consultando a seção "Ajustando a direção de monitoramento da câmera". (Página 17)



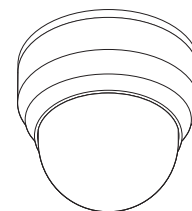
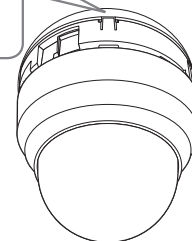
-  ■ Recomendamos que não toque na lente, uma vez que a lente da câmera foi adequadamente focada no processo final de fabrico. Se o fizer, a lente pode ficar desfocada ou manchada por substâncias estranhas.

5. Por favor, conecte a tampa interna ao corpo principal.



6. Ao segurar a base da câmera, com a outra mão segure e empurre a tampa.

-  ■ Ao instalar a tampa, alinhe [ ] e a linha guia na base e aplique força suficiente para empurrar a tampa no lugar. Se a tampa da cúpula for rodada durante a montagem ou for montada incorretamente, pode ocorrer a reflexão difusa ou a seção das lentes pode rodar, o que vai fazer com que o alcance do disparo se altere.
- Certifique-se de que a tampa está conectada corretamente à parte inferior como mostra a figura abaixo. Se o encaixe não ficar bem feito, a tampa pode cair, podendo causar ferimentos.



## INSTALAÇÃO (QNO-8010R/8020R/8030R/8080R)

- ! ■ Esta câmara é impermeável e cumpre as especificações IP66, mas a ficha conectada ao cabo externo não cumpre. Se recomenda instalar este produto debaixo da borda das abas para evitar que o cabo seja exteriormente exposto.

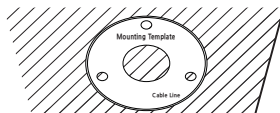
### Precauções antes da instalação

Certifique-se de ler as seguintes instruções antes de instalar a câmara:

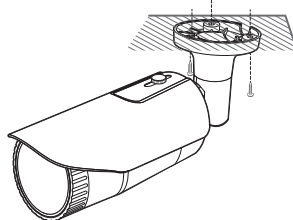
- Deve ser instalada em área (teto ou parede) que possa suportar 5 vezes o peso da câmara incluindo o suporte de instalação.
- Cabos presos ou desencapados podem causar danos ao produto ou um incêndio.
- Por motivos de segurança, mantenha outras pessoas longe do local de instalação. E coloque os pertences pessoais longe do local, apenas por precaução.
- Não use o buraco do protetor solar para qualquer finalidade que não seja para ligar o protetor solar.

### Instalação

1. Leve em conta a direção a ser monitorizada, fixe o modelo e faça os furos observando o seguinte modelo.

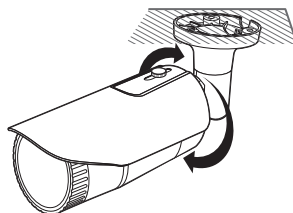


2. Insira e aperte 3 parafusos em 3 orifícios para prender a câmara.  
3. Conecte os cabos adequados com os terminais da câmara.



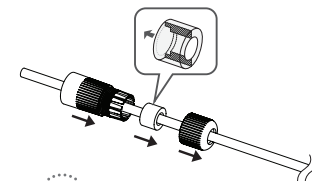
4. Ajuste a direção da câmara com a chave em L fornecida.

- ! ■ Quando você ajustar a posição da câmara usando um suporte, por favor, afrouxe o parafuso do suporte, ajuste a câmara, e aperte-o. Se tentar ajustá-lo à força, estando o parafuso apertado, pode riscar ou causar outros problemas.

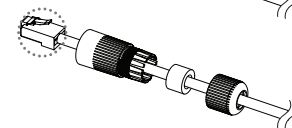


## Como conectar o cabo impermeável RJ45 a um cabo de LAN

1. Insira-o, seguindo a direção da seta.

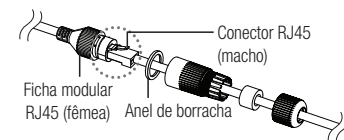


2. Conecte o conector de LAN (macho) ao cabo.

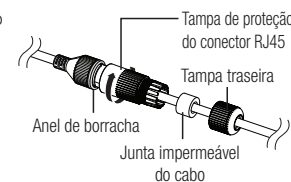


3. Conecte a ficha modular RJ45 (fêmea) ao conector RJ45 (macho).

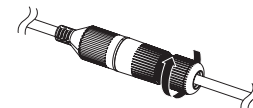
- ! ■ Por favor, mantenha cada uma das partes separadas.



4. Monte girando a ficha modular RJ45 (fêmea) e a tampa de proteção RJ45 no sentido horário (Siga a seta).



5. Monte girando a tampa de proteção RJ45 e a tampa traseira no sentido horário (Siga a seta). Quando a tampa traseira é montada, a junta impermeável do cabo é firmemente conectada ao cabo para torná-lo impermeável.



- ! ■ Você deve montá-la totalmente para girar a tampa traseira até o final do parafuso roscado do conector RJ45.

## Instalação no exterior

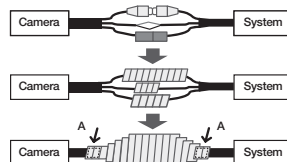
Quando instalar o aparelho, se o fizer fora do edifício, por favor impermeabilize a ficha com tape impermeável de borracha butílica (pode ser adquirida em lojas) para que a água não extravase a partir do vão do cabo conectado para o exterior.

1. Conecte ao cabo PoE.

2. Envolve o revestimento do cabo negro (Área A) e a área de ligação do cabo com tape impermeável (borracha butílica) de modo que mais de metade da fita de borracha de butilo esteja sobreposta.



- Se o invólucro do cabo não se encontrar adequadamente impermeabilizado, pode diretamente provocar vazamento. Certifique-se de proteger o cabo com uma densa camada de tape.
- A tape de borracha butílica é fabricada a partir de borracha de butilo que pode ser esticada até ao dobro de seu comprimento normal.



## INSTALAÇÃO (QNV-8010R/8020R/8030R/8080R)



- Esta câmara é impermeável e cumpre as especificações IP66, mas a ficha conectada ao cabo externo não cumpre. Se recomenda instalar este produto debaixo da borda das abas para evitar que o cabo seja exteriormente exposto.

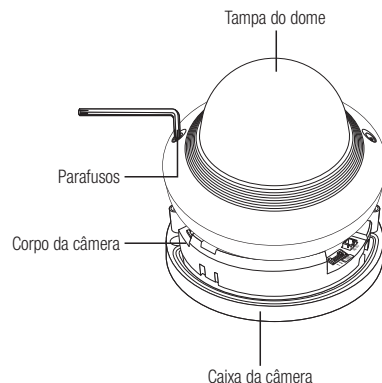
## Precauções antes da instalação

Certifique-se de ler as seguintes instruções antes de instalar a câmara:

- Deve ser instalada em área (teto ou parede) que possa suportar 5 vezes o peso da câmara incluindo o suporte de instalação.
- Cabos presos ou desencapados podem causar danos ao produto ou um incêndio.
- Por motivos de segurança, mantenha outras pessoas longe do local de instalação. E coloque os pertences pessoais longe do local, apenas por precaução.

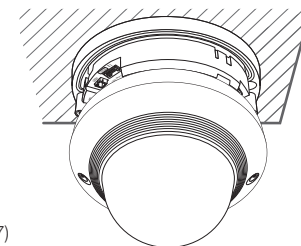
## Desmontando

1. Usando a chave em L fornecida, rode os 2 parafusos autorroscantes na tampa no sentido anti-horário para retirar a tampa.



## Instalação

- Usando o modelo fornecido como acessório, faça o furo do parafuso de instalação (diâmetro de 6mm, profundidade mínima de 55 mm) e insira firmemente a âncora plástica fornecida como acessório para o efeito.
- Ajuste o orifício inferior ao orifício da bucha e insira e aperte o parafuso de tarraxa (M4.5xL50).
- Conecte e organize os cabos necessários para que não sejam danificados ou torcidos durante a instalação da câmara.
- Ajuste a lente em uma direção desejada consultando a seção "Ajustando a direção de monitoramento da câmara". (Página 17)
- Feche a tampa do dome.
  - Aperte firmemente o parafuso autorroscante usando uma chave em L para evitar um vazamento de água.

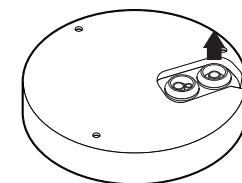


## Ligando o cabo LAN

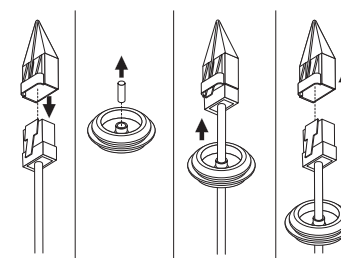
- Remova a tampa do dome e a caixa.
- Puxe o cabo na parte inferior conforme exibido.



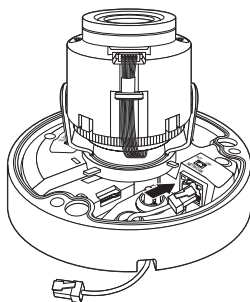
- Use uma bucha de cabo apropriada para o cabo LAN a conectar.
  - Câmera: use o cabo com um diâmetro de Ø5~6,5.



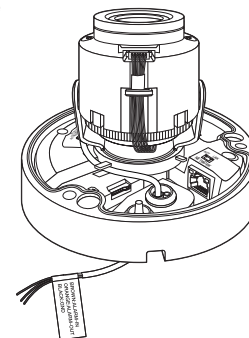
- Retire a parte expulsa do cabo de 1 furo fornecido.
- Use o instalador da tampa para organizar o cabo LAN.



5. Roteie o cabo LAN pelo orifício criado após remover o cabo. Acompanhe o Passo 2 e conecte ao terminal Ethernet.
6. Insira o cabo LAN no orifício.

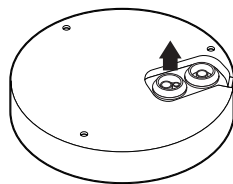


4. Ao montar a câmera, pendure os cabos no gancho fixo para evitar que sejam danificados ou esmagados.
5. Insira o conector dos cabos de alarme no orifício.
6. Ajuste a lente em uma direção desejada consultando a seção "Ajustando a direção de monitoramento da câmera". (Página 17)
7. Fixe a tampa do dome.

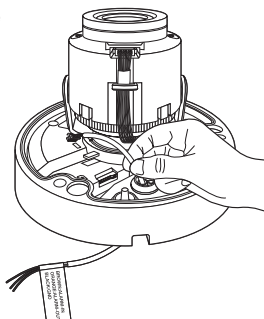


### Ligando o cabo de alarme

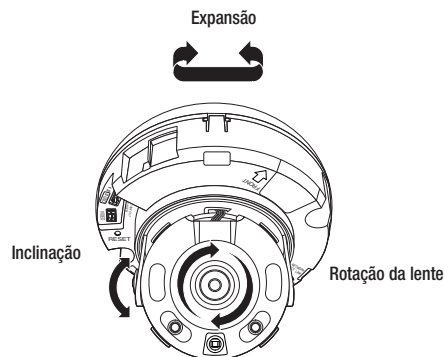
1. Remova a tampa do dome e a caixa.
2. Puxe o cabo na parte inferior conforme exibido.



3. Pelo orifício por onde o cabo foi removido no Passo 2, insira o cabo de alarme e conecte-o ao bloco de terminal de alarme do PCB.



## Ajustando a direção de monitoramento da câmera (QND-8010R/8020R/8030R/8080R, QNV-8010R/8020R/8030R/8080R)



### ▪ Ajustando a direção de monitoramento

Você pode ajustar a direção da câmera apenas quando a câmera estiver fixada no teto. Girar a unidade da câmera para a esquerda ou a direita é chamado de Expansão, ajustar a inclinação é chamado de Inclinação e girar as lentes em seu próprio eixo é chamado de Rotação.

- A faixa efetiva de expansão é um total de 350 graus.
- A faixa efetiva de rotação é um total de 355 graus.
- A faixa efetiva de inclinação é um total de 67 graus.



- A imagem pode ser tapada pela carcaça da câmera dependendo do ângulo.
- Não gire o foco/zoom da lente com demasiada força após a desmontagem da tampa do dome. Caso contrário, isso causará erro de foco devido a falha no motor.

### ▪ Métodos de ajuste

1. Depois de instalar a câmera, ajuste o ângulo de expansão considerando a direção de monitoramento.
2. Defina o ângulo horizontal para que a imagem não seja revertida.
3. Ajuste o ângulo de inclinação para que a câmera fique voltada para o objeto de monitoramento.

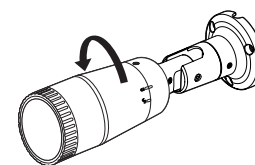
## INSERINDO/REMOVENDO UM CARTÃO DE MEMÓRIA MICRO SD



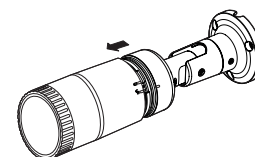
- Desconecte o cabo de alimentação da câmera antes de inserir o cartão de memória Micro SD.
- Não insira o cartão de memória Micro SD enquanto estiver virado para baixo com força. Caso contrário, isso pode danificar o cartão de memória Micro SD.
- Quando chove ou a umidade é alta, não é recomendada a inserção ou a ejeção de um cartão Micro SD.
- A desmontagem da tampa do produto fica terminada no prazo de 5 minutos, ou haverá o risco de condensação interna.

### Inserindo um cartão de memória Micro SD (QNO-8010R/8020R/8030R/8080R)

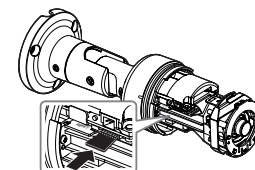
1. Rode a tampa dianteira para DESBLOQUEAR [↺] a direção.



2. Puxe e separe a tampa frontal.

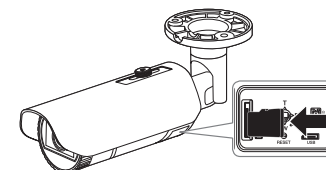


3. Insira um cartão Micro SD na direção da seta mostrada na figura.



<QNO-8010R/8020R/8030R>

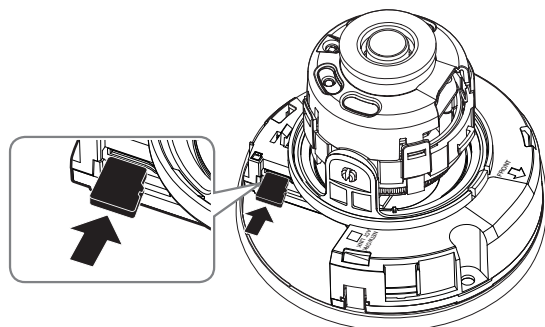
4. Abra a interface da tampa e insira o cartão SD na direção marcada com uma seta.



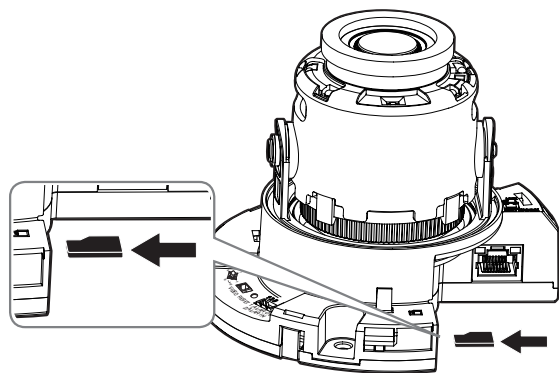
<QNO-8080R>

### Inserindo um cartão de memória Micro SD (QND-8010R/8020R/8030R/8080R, QNV-8010R/8020R/8030R/8080R)

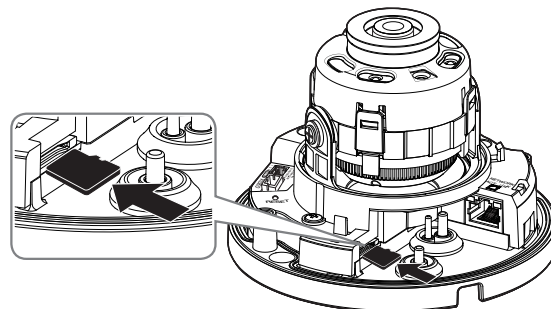
1. Separe a tampa da campânula da câmera.
2. Insira um cartão Micro SD na direção da seta mostrada na figura.



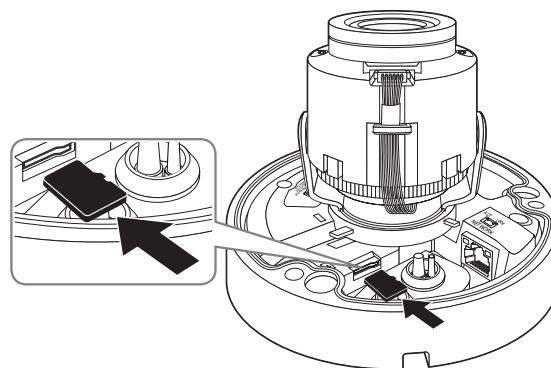
<QND-8010R/8020R/8030R>



<QND-8080R>



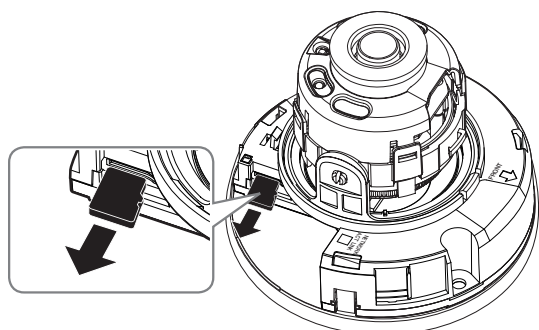
<QNV-8010R/8020R/8030R>



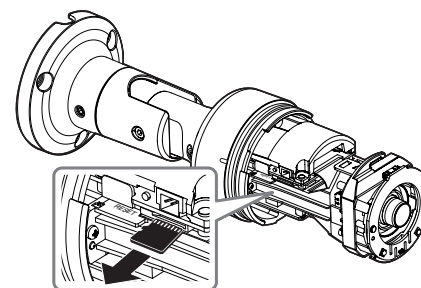
<QNV-8080R>

## Removendo um cartão de memória Micro SD

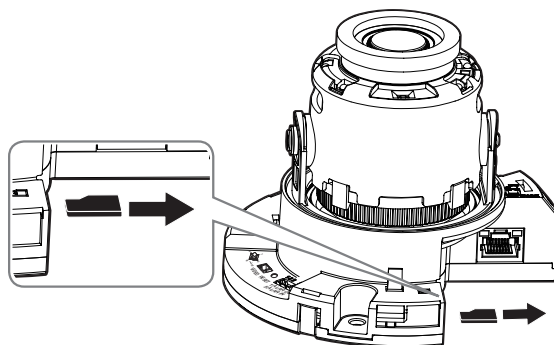
Pressione com cuidado a extremidade exposta do cartão de memória, conforme mostrado na figura, para ejetá-lo do slot.



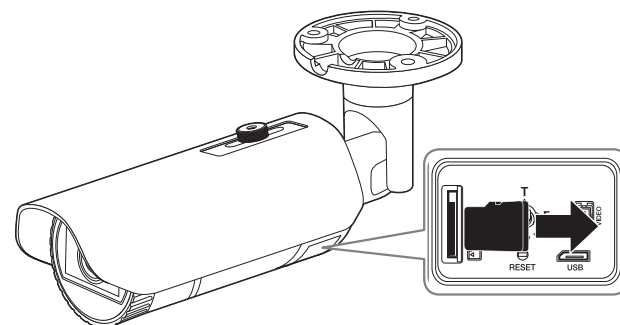
<QND-8010R/8020R/8030R>



<QNO-8010R/8020R/8030R>



<QND-8080R>



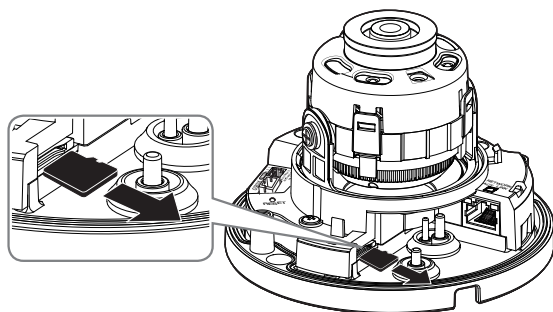
<QNO-8080R>

## ALIMENTAÇÃO E REDE

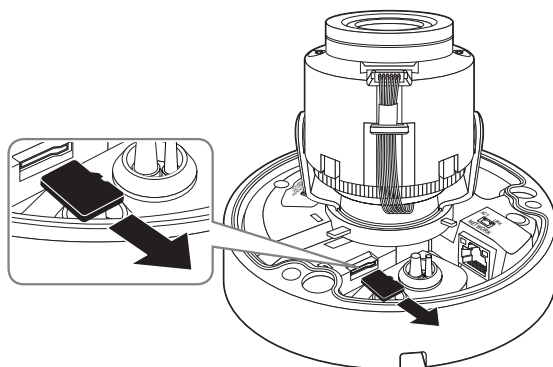
Conecte o seu dispositivo PoE à câmera.



- Conecte a um conector PoE (Power over Ethernet) de um roteador com PoE habilitado.
- Use equipamento PoE (Power over Ethernet) que suporte o padrão IEEE 802.3af.



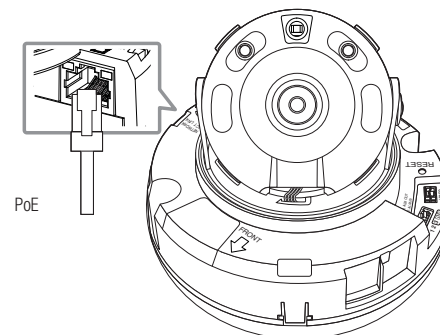
<QNV-8010R/8020R/8030R>



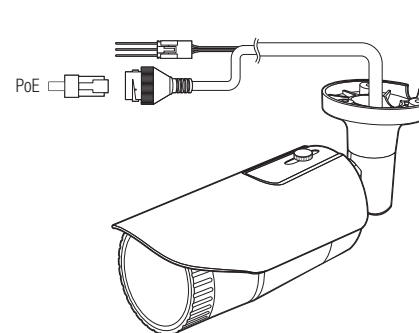
<QNV-8080R>



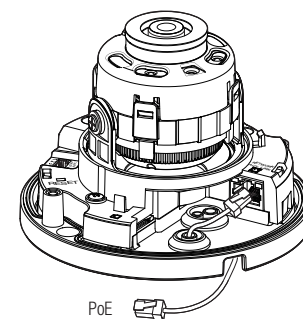
- Pressionar o micro cartão de memória SD com muita força e soltar de repente pode fazer com que ele seja lançado para fora do slot de maneira incontrolável.
- Antes de remover o cartão de memória SD, em <Armazenamento>, defina o dispositivo para <Desl.> e pressione o botão [Aplicar] e desligue a câmera.
- Se desligar a câmera ou remover o micro cartão de memória SD que contém dados do produto, os dados podem se perder ou se danificar.



<QND-8010R/8020R/8030R>



<QNO-8010R/8020R/8030R>

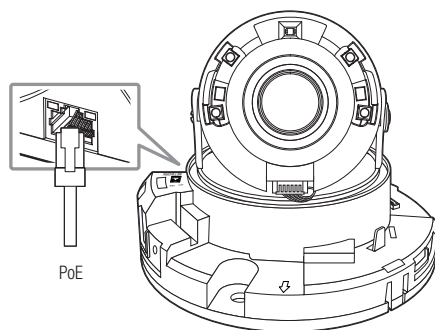


<QNV-8010R/8020R/8030R>

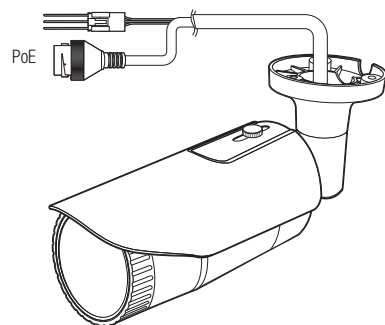
## Especificação do Cabo de Rede

| Item             | Conteúdos    | Comentário                                  |
|------------------|--------------|---------------------------------------------|
| Conector         | RJ45         |                                             |
| Ethernet         | 10/100BASE-T | 10/100 Mbps                                 |
| Cabo             | Categoria 5e |                                             |
| Distância Máxima | 100M         | Resistência CC $\leq 0.125 \Omega/\text{m}$ |
| Suporte PoE      | IEEE 802.3af |                                             |

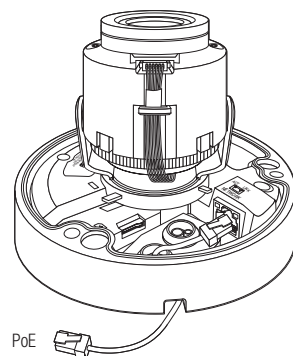
- ! ■ Se você usar a cabo diferente dos padrões da Categoria 5e, não é garantida a distância de transmissão de 100 m.



<QND-8080R>



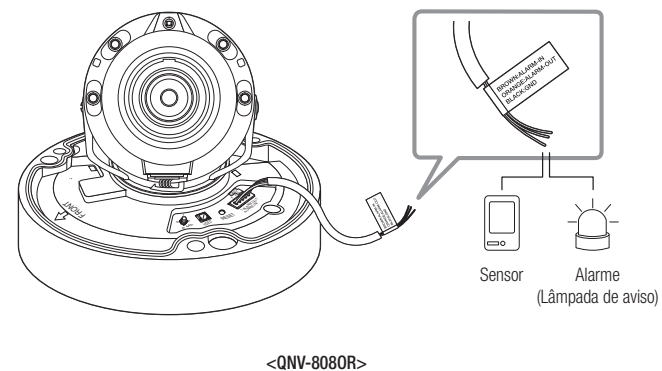
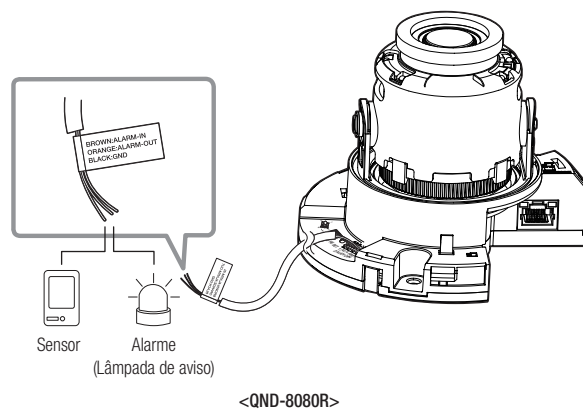
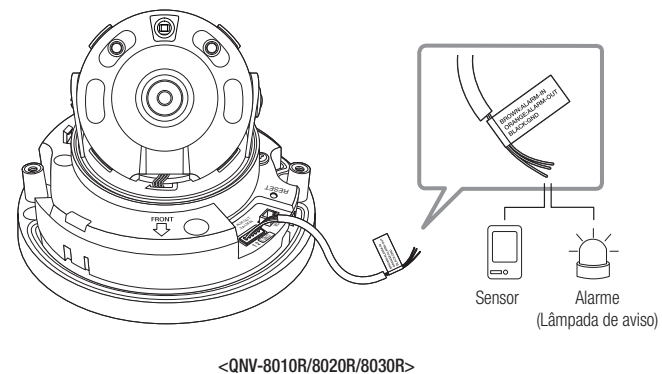
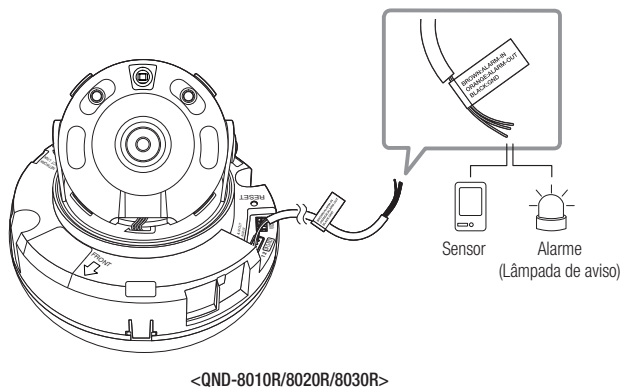
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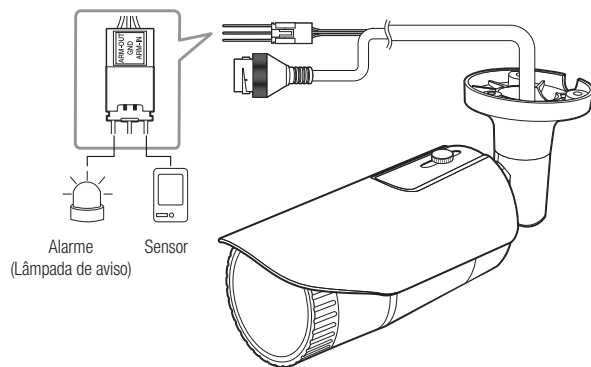


<QNV-8080R>

## Conectando à caixa da porta de E/S

Conecte o cabo de Alarme I/O à porta correspondente da caixa de portas.





<QNO-8010R/8020R/8030R/8080R>

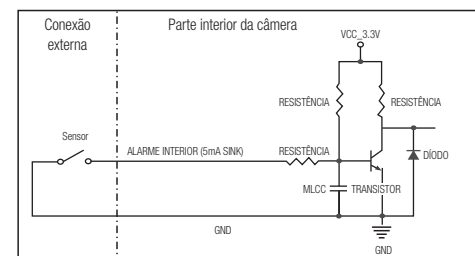
- ALARM-IN : Usado para conectar o sensor de entrada do alarme ou o sensor externo de dia/noite.
- ALARM-OUT : Usada para conectar o sinal de saída de alarme.
- GND : Porta comum para entrada de alarme/saída de sinal.

! ■ Se existirem dispositivos (por exemplo, luz intermitente e sirene) que excedem a tensão e as especificações de corrente conectados usando o método de coletor aberto, pode provocar uma avaria. Consulte o "**Diagrama Elétrico de Alarme Desligado**" ao conectar dispositivos que excedam as especificações de tensão e corrente.

### Para conectar o sensor externo

Conecte uma trança de cada linha de sinal (duas tranças) dos sensores à porta [ALARM IN] e conecte a outra trança à porta [GND].

### Diagrama Elétrico de Alarme Ligado

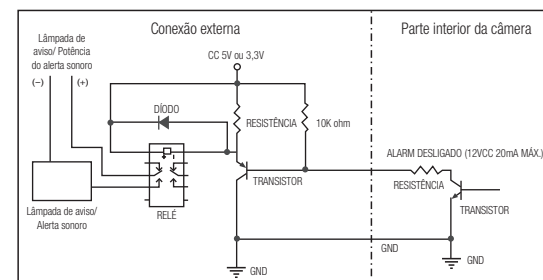


### Para conectar o alarme no exterior

Se existirem dispositivos (por exemplo, luz intermitente e sirene) que excedem a tensão e as especificações de corrente conectados usando o método de coletor aberto, pode provocar uma avaria.

Consulte o diagrama de conexão do alarme abaixo quando conectar dispositivos que excedem as especificações de tensão e corrente.

### Diagrama Elétrico de Alarme Desligado

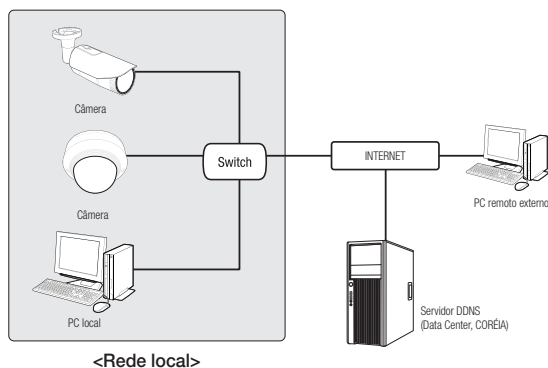


É possível ajustar as definições da rede de acordo com suas configurações de rede.

## CONECTANDO A CÂMERA DIRETAMENTE À REDE LOCAL

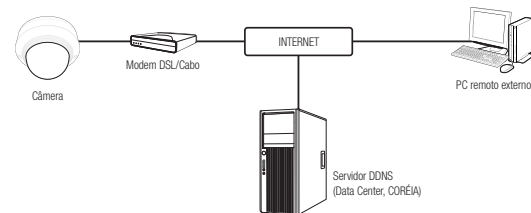
### Conectando a câmera a partir de um PC local na LAN

1. Inicie um navegador de Internet ao PC local.
2. Insira o endereço IP da câmera na barra de endereços do navegador.



- Um PC remoto em uma Internet externa fora da rede LAN talvez não consiga se conectar à câmera instalada na intranet se o encaminhamento de porta não estiver corretamente configurado ou se um firewall estiver configurado. Neste caso, para resolver o problema, entre em contato com o administrador de rede.
- Por padrão de fábrica, o endereço IP será atribuído a partir do servidor DHCP automaticamente. Se não houver servidor DHCP disponível, o endereço IP será configurado como 192.168.1.100. Para alterar o endereço IP, use o Device Manager. Para mais detalhes sobre o uso do Device Manager, consulte "Usar o Device Manager". (Página 25)

## CONECTANDO A CÂMERA DIRETAMENTE A UM DHCP COM BASE NO MODEM DSL/CABO



1. Conecte o PC do usuário diretamente à câmera de rede.
2. Execute o instalador de IP e altere o endereço IP da câmera para que você possa usar o navegador da Web em sua área de trabalho para conectar-se à Internet.
3. Use o navegador da Internet para conectar-se ao visualizador da web.
4. Vá para a página [Configurar].
5. Vá para [Rede] – [DDNS] e defina as configurações do DDNS.
6. Mova-se para [Basic] – [IP & Porta] e defina o tipo de IP como [DHCP].
7. Conecte a câmera, que foi removida do PC, diretamente para o modem.
8. Reinicie a câmera.

- Para informação sobre como definir o DDNS, consulte a ajuda online do Visualizador Web.
- Para informação sobre como definir o formato de IP, consulte a ajuda online do Visualizador Web.

USAR O DEVICE MANAGER

- O programa Device Manager pode ser baixado no menu <Support> – <Online Tool> do site da Hanwha Vision (https://www.HanwhaVision.com).
- Mais informações sobre o Device Manager podem ser encontradas no menu <Ajuda> da página inicial.

PESQUISAR A CÂMERA AUTOMATICAMENTE

Se uma câmera estiver conectada à mesma rede do computador em que o Device Manager estiver instalado, você pode encontrar a câmera da rede usando a função de pesquisa.

1. Clique em <Search (Pesquisar)>, na página inicial do Device Manager.
2. Encontre a câmera na lista.
  - Marque o endereço MAC no adesivo junto à câmera.

CONFIGURAR O ENDEREÇO IP

Se você quiser alterar as configurações de rede da câmera, o aviso <Login OK> deve ser exibido em <Status>. Clique em <Authentication (Autenticação)>, na página inicial, para fazer o login.

Configurar o IP estático

Insira e configure manualmente o endereço IP e as informações da porta.

1. Na lista, clique na câmera para a qual você deseja alterar a configuração de IP.
2. Clique em <IP Assign (Atribuição de IP)>, na página inicial do Device Manager.
3. Selecione <Assign the following IP address (Atribuir o seguinte endereço IP)>.
  - As informações do IP da câmera serão exibidas conforme definido anteriormente.
4. Preencha as categorias relativas a IP e porta.

Se não estiver usando um Roteador de banda larga

Peça o valor definido pelo gerenciador de rede para <IP Address (endereço IP)>, <Subnet Mask (máscara de sub-rede)> e <gateway>.

- HTTP Port : Usada para acessar a câmera usando o navegador da Internet, definida, por padrão, como 80.
- RTSP Port : Uma porta que controla o streaming em tempo real. O valor inicial é 554.

Se estiver usando um Roteador de banda larga

- IP Address : Insira um endereço que esteja no intervalo de IPs fornecido pelo Roteador de banda larga.  
Por ex) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : A <Subnet Mask> do Roteador de banda larga será a <Subnet Mask> da câmera.
- Gateway : O <Local IP Address> do Roteador de banda larga será o <Gateway> da câmera.

- As configurações podem ser diferentes dependendo do modelo do Roteador de banda larga conectado. Para obter mais informações, consulte o manual do usuário do roteador aplicável.
- Para obter mais informações sobre o encaminhamento de porta do roteador de banda larga, consulte "Configuração do Avanço da Faixa da Porta (Mapeamento de Porta)". (Página 27)

Se o Roteador de banda larga tiver mais de uma câmera conectada

Defina as configurações relacionadas ao IP e as configurações relacionadas à porta de modo distinto entre si. Por ex)

|                                    | Categoria   | Câmera #1     | Câmera #2     |
|------------------------------------|-------------|---------------|---------------|
| Configurações relacionadas ao 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   |
|                                    |             |               |               |
| Configurações relacionadas à porta | HTTP Port   | 8080          | 8081          |
|                                    | RTSP Port   | 554           | 555           |

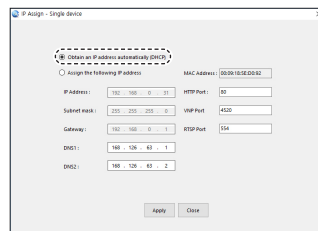
- Se a <HTTP Port> estiver configurada para um valor que não seja 80, você terá que fornecer o número de <Port> na barra de endereço do navegador de Internet antes que possa acessar a câmera.  
Por ex) http://IP address : HTTP Port  
http://192.168.1.100:8080
5. Clique no botão [Aplicar].
  6. Se aparecer a mensagem de êxito, clique em [OK].

## Configurar o IP dinâmico

Obtenha o endereço IP no DHCP

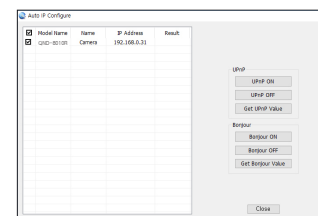
- Exemplo do ambiente de IP dinâmico
  - Se um Roteador de banda larga, com câmeras conectadas, estiver designado a um endereço IP pelo Servidor DHCP
  - Se estiver conectando a câmera diretamente ao modem usando os protocolos DHCP
  - Se os IPs estiverem designados ao servidor DHCP interno através da LAN

- Na lista, clique na câmera para a qual você deseja alterar a configuração de IP.
- Clique em **<IP Assign (Atribuição de IP)>**, na página inicial do Device Manager.
- Selecione **<Obtain an IP address automatically (DHCP) (Obter um endereço IP automaticamente (DHCP))>**.
- Clique no botão **[Apply (Aplicar)]**.
- Se aparecer a mensagem de êxito, clique em **[OK]**.



## CONFIGURAR IP AUTOMATICAMENTE

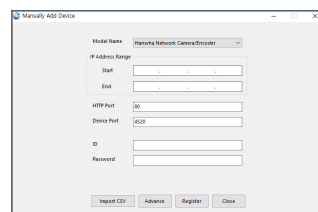
- Na lista, clique na câmera para a qual você deseja configurar automaticamente o IP.
- Clique em **< + >**, na página inicial do Device Manager.
  - O menu Configuração do equipamento é exibido.
- No menu, clique em **<Auto IP Configure (Configurar IP automático)>**.
- Clique no botão **[Close (Fechar)]**.



## REGISTRAR A CÂMERA MANUALMENTE

Se a câmera não for encontrada por meio da função de pesquisa, ela pode ser registrada remotamente, por meio do preenchimento manual das informações de IP, caso a câmera esteja conectada a uma rede externa.

- Clique em **<Add Devices (Adicionar dispositivos)>** – **<Manually Add Device (Adicionar dispositivos manualmente)>**, na página inicial do Device Manager.
- Defina o intervalo do endereço IP pesquisado.
- Selecione o **<Model Name (nome do modelo)>** da câmera que você registrou e insira a porta HTTP, a ID e a senha.
- Clique no botão **[Register (Registrar)]**.
- Confirme se a câmera está registrada.
  - Marque o endereço MAC no adesivo junto à câmera.

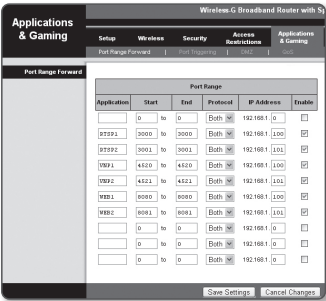


# CONFIGURAÇÃO DO AVANÇO DA FAIXA DA PORTA (MAPEAMENTO DE PORTA)

Se você instalou um Roteador de banda larga com uma câmera conectada, será necessário configurar o avanço da faixa da porta no Roteador de banda larga para que um PC remoto possa acessar a câmera em seu interior.

## Avanço manual da faixa da porta

- 1. A partir do menu Setup do Roteador de banda larga, selecione <Applications & Gaming> - <Port Range Forward>.  
Para configurar o avanço da faixa da porta para um Roteador de banda larga de terceiros, consulte o guia do usuário desse Roteador de banda larga.
- 2. Selecione <TCP> e <UDP Port> para cada câmera conectada ao Roteador de banda larga.  
O número de cada porta a ser configurada ao router de IP deve ser definida de acordo com o número de porta designado em <Configurar> - <Basic> - <IP & Porta> no visualizador da web da câmera.
- 3. Quando concluído, clique em [Save Settings].  
Suas configurações serão salvas.

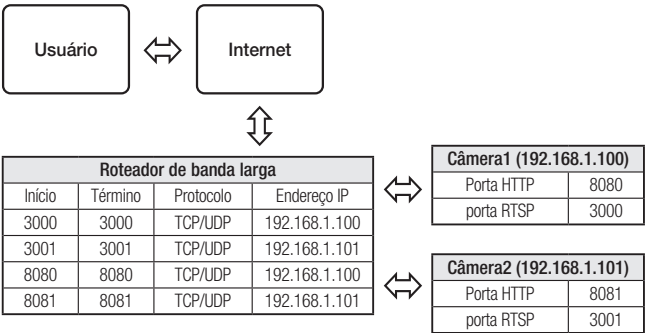


- A configuração de encaminhamento de porta é um exemplo de configuração do roteador de IP CISCO.
- As configurações podem ser diferentes dependendo do modelo do Roteador de banda larga conectado.  
Para obter mais informações, consulte o manual do usuário do roteador aplicável.

## Configurando o avanço da faixa da porta para várias câmeras de rede

- Você pode definir uma regra de encaminhamento de porta no Roteador de banda larga por meio da página de configuração do mesmo na Web.
- Um usuário pode alterar cada porta usando a tela de configuração da câmera.

Quando a Câmera1 e Câmera2 estiverem conectadas a um roteador :



- O encaminhamento de porta pode ser feito sem configuração adicional do roteador caso o roteador ofereça suporte à função UPnP (Universal Plug and Play).  
Após ligar a rede da câmera, selecione a caixa de seleção do menu <Conexão rápida> em <DDNS> em "Configurações -> Rede -> DDNS".

### CONECTANDO À CÂMERA A PARTIR DE UM PC LOCAL COMPARTILHADO

---

1. Execute o Device Manager.  
Ele procurará pelas câmeras conectadas e exibirá uma lista delas.
2. Clique duas vezes em uma câmera para acessá-la.  
O navegador da Internet inicia e se conecta à câmera.



- Você também pode acessar a câmera de modo que você digita o endereço IP da câmera encontrada na barra de endereços do navegador da Internet.

### CONECTANDO À CÂMERA A PARTIR DE UM PC REMOTO POR MEIO DA INTERNET

---

Em um computador remoto fora do cluster de rede do roteador de banda larga, os usuários podem acessar câmeras com a rede do roteador de banda larga, por meio da URL de DDNS dinâmico da câmera.

1. Antes de acessar uma câmera na rede do Roteador de banda larga, você deve ter configurado o avanço de faixa de porta para o Roteador de banda larga.
2. No PC remoto, ative o navegador da Internet e digite o endereço de URL DDNS da câmera ou o endereço IP do Roteador de banda larga na barra de endereço.  
Por ex) <http://ddns.hanwha-security.com/ID>

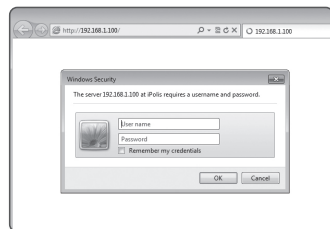


- Para usar o DDNS, cadastre-se na página do DDNS (<http://ddns.hanwha-security.com>) e registre o produto em **[Meu DDNS dinâmico]** > **[Registrar produto]**.

## CONECTANDO À CÂMERA

### Normalmente, você

1. Inicia o navegador da Internet.
2. Digita o endereço IP da câmera na barra de endereço.  
Por ex) • Endereço IP (IPv4) : 192.168.1.100 →  
http://192.168.1.100  
- A caixa de diálogo Login deverá aparecer.  
• Endereço IP (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111  
→ http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - A caixa de diálogo Login deverá aparecer.



### Se a porta HTTP for diferente de 80

1. Inicia o navegador da Internet.
2. Digita o endereço IP e o número da porta HTTP da câmera na barra de endereço.  
Por ex) Endereço IP : 192.168.1.100:Número da porta HTTP(8080)  
→ http://192.168.1.100:8080 - A caixa de diálogo Login deverá aparecer.

### Usando URL

1. Inicia o navegador da Internet.
2. Digita o URL DDNS da câmera na barra de endereço.  
Por ex) Endereço URL : http://ddns.hanwha-security.com/ID  
- A caixa de diálogo Login deverá aparecer.



- A conexão de rede é apenas desativada no ambiente LAN.

### Conectar via UPnP

1. Execute o cliente ou sistema operativo no suporte do protocolo UPnP.
2. Clique no nome da câmera para pesquisa.  
No sistema operativo Windows, clique no nome da câmera pesquisado a partir do menu de rede.  
- É exibida a janela de login.

### Conectar via Bonjour

1. Execute o cliente ou sistema operativo no suporte do protocolo Bonjour.
2. Clique no nome da câmera para pesquisa.  
No sistema operativo Mac, clique no nome da câmera pesquisado a partir da aba Bonjour de Safari.  
- É exibida a janela de login.

### Para verificar o endereço DDNS

Se a câmera estiver conectada diretamente a um modem de cabo com base DHCP ou modem DSL, o endereço IP irá mudar de cada vez que tenta conectar ao ISP (a empresa à qual você aderiu). Se esse for o caso, você não será informado do endereço IP alterado por DDNS.

Uma vez que você registrar um dispositivo baseado em IP dinâmico com o servidor DDNS, poderá facilmente verificar o IP alterado quando tentar acessar o dispositivo.

Para registrar o seu dispositivo no servidor <DDNS>, visite <http://ddns.hanwha-security.com> e registre o dispositivo primeiro; em seguida, configure <Rede> - <DDNS> do Visualizador da Web para <DDNS> e forneça o <ID do produto> usado no registro do DDNS.

## CONFIGURAÇÃO DE SENHA

Quando você acessar o produto pela primeira vez, você deve registrar o logon e senha.



- Para uma nova senha com 8 a 9 dígitos, você deve usar pelo menos 3 dos seguintes: letras maiúsculas/minúsculas, números e caracteres especiais. Para uma senha com 10 a 15 dígitos, você deve usar pelo menos 2 tipos dos mencionados.
  - Caracteres especiais são permitidos: ~!@#\$%^&\*()\_+=|{}[]?/
- Para maior segurança, não recomendamos repetir nas suas senhas os mesmos caracteres ou entradas consecutivas no teclado.
- Se perdeu a sua senha, pode pressionar o botão **[RESET]** para reinicializar o produto. Por isso, não perca sua senha, usando o um bloco notas ou memorizando-a.

A janela 'Administrator password change' contém dois campos de entrada: 'New password' e 'Confirm new password'. Abaixo dos campos, há uma lista de regras para a senha:

- 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)

## LOGIN

Sempre que você acessar a câmera, a janela de login é exibida. Insira o ID do usuário e a senha para acessar a câmera.

1. Digite “**admin**” na caixa de entrada <User name>. O ID do administrador, “**admin**”, é fixo e não pode ser alterado.
2. Digite a senha no campo de entrada <Password>.
3. Clique em **[OK]**.  
Se você efetuou login com sucesso, verá a tela do Visualizador ao vivo.



- Quando você acessa o visualizador da câmera web, preste atenção especial à segurança, verificando se os dados de imagem estão criptografados.



- Ao marcar a opção “**Remember my credentials**” quando sua entrada for concluída, você será conectado automaticamente sem ser avisado para inserir as informações de login da próxima vez que conectar.
- Você experimentará a melhor qualidade de vídeo se o tamanho da tela estiver em 100%. A redução da proporção pode cortar a imagem nas margens.

A janela 'Windows Security' mostra a mensagem: 'The server 192.168.1.100 at iPolis requires a username and password.' Há campos para 'User name' e 'Password', e uma caixa de seleção 'Remember my credentials'. Botões 'OK' e 'Cancel' estão na base.

## CONFIGURAÇÃO DA VISUALIZAÇÃO ON-LINE DA CÂMERA

1. Clique no ícone **[Configuração ( ⚙ )]**.
2. A janela de Configurações é exibida.
3. Você pode configurar as definições das informações básicas, vídeo, áudio, rede, evento, análise e sistema da câmera através da rede.
4. Clique em <Ajuda ( ? )> para visualizar as descrições detalhadas de cada função.

## SOLUÇÃO DE PROBLEMAS

| PROBLEMA                                                                                                                                       | SOLUÇÃO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quando um usuário do Windows 10 acessa o visualizador web através do Chrome ou Firefox, o volume do som do microfone se altera periodicamente. | <ul style="list-style-type: none"> <li>Isso é o que acontece quando o driver do microfone é configurado para o driver Realtek. Instale o dispositivo Áudio de Alta Definição (Driver Padrão do Windows) ou o driver de terceiros como o driver do microfone.</li> </ul>                                                                                                                                                                                                                                                                    |
| Não é exibido nenhum vídeo ao acessar o visualizador web com plug-in gratuito no navegador Safari via HTTPS.                                   | <ul style="list-style-type: none"> <li>Na janela pop-up de autenticação exibida quando acessa inicialmente a https, clique em "Ver Certificado de Autenticação" e selecione a caixa de seleção "Confiar sempre ao ligar ao IP do visualizador da web escolhido".</li> <li>Se o visualizador web continuar falhando ao exibir um vídeo depois de você selecionar "Seguinte" na janela de mensagem em baixo, pressione a tecla Command + Q para sair do navegador Safari, acesse de novo e siga os procedimentos referidos acima.</li> </ul> |
| Não consigo acessar a câmera de um navegador da Web.                                                                                           | <ul style="list-style-type: none"> <li>Verifique se as configurações de rede da câmera são apropriadas.</li> <li>Verifique se todos os cabos de rede foram conectados corretamente.</li> <li>Se foi conectada usando DHCP, verifique se a câmera consegue obter os endereços IP dinâmicos sem qualquer problema.</li> <li>Se a câmera estiver conectada a um Roteador de banda larga, verifique se o encaminhamento da porta está corretamente configurado.</li> </ul>                                                                     |
| O visualizador foi desconectado durante o monitoramento.                                                                                       | <ul style="list-style-type: none"> <li>Os visualizadores conectados são desconectados após qualquer alteração na câmera ou nas configurações de rede.</li> <li>Verifique todas as conexões da rede.</li> </ul>                                                                                                                                                                                                                                                                                                                             |
| Não é exibido nenhum vídeo quando eu acesso pela primeira vez ao visualizador da web ou coneto streaming para o cliente.                       | <ul style="list-style-type: none"> <li>O número máximo de perfis disponíveis é 3. A ligação pode se perder se você utilizar 4 ou mais perfis. Exemplo) Se você acessar a MJPEG, H.264 e H.265 e depois acessar com um perfil diferente, a ligação será interrompida.</li> </ul>                                                                                                                                                                                                                                                            |
| A câmera conectada à rede não é detectada no programa Device Manager.                                                                          | <ul style="list-style-type: none"> <li>Desative as configurações de firewall em seu PC e pesquise a câmera novamente.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sobreposição de imagens.                                                                                                                       | <ul style="list-style-type: none"> <li>Verifique se duas ou mais câmeras estão configuradas para um único endereço de multicast em vez de diferentes endereços. Se um único endereço for usado para várias câmeras, as imagens poderão ficar sobrepostas.</li> </ul>                                                                                                                                                                                                                                                                       |
| Nenhuma imagem é exibida.                                                                                                                      | <ul style="list-style-type: none"> <li>Se o método de transmissão estiver configurado para multicast, verifique se há um roteador que ofereça suporte para multicast na rede local à qual a câmera está conectada.</li> </ul>                                                                                                                                                                                                                                                                                                              |
| A voz não é gravada mesmo que as configurações de entrada de áudio estejam definidas.                                                          | <ul style="list-style-type: none"> <li>Você deve ativar a caixa de seleção &lt;Entrada áudio&gt; em &lt;Basic&gt; - &lt;Perfil de vídeo&gt;.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                    |

| PROBLEMA                                                                                                                                                   | SOLUÇÃO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| O <Detecção de movim.> do <Análises> é definido como <Ativar>, mas não me chega nenhuma notificação por e-mail, mesmo quando ocorreu um evento de análise. | <ul style="list-style-type: none"> <li>Verifique as configurações na seguinte sequência: <ul style="list-style-type: none"> <li>A. Verifique &lt;Data e horário&gt;.</li> <li>B. A &lt;Detecção de movim.&gt; deve ser configurada para &lt;Ativar&gt;.</li> <li>C. Verifique se a opção de &lt;E-mail&gt; do menu de &lt;Configuração de evento&gt; está marcada como Usar.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                |
| Não é possível gravar no cartão de memória Micro SD.                                                                                                       | <ul style="list-style-type: none"> <li>Verifique se o cartão de memória está defeituoso.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| O cartão de memória Micro SD está inserido, mas a câmera não está funcionando corretamente.                                                                | <ul style="list-style-type: none"> <li>Verifique se o cartão de memória está inserido na direção correta. A operação do cartão de memória formatado por outros dispositivos não é garantida com esta câmera.</li> <li>Formate o cartão de memória novamente pelo menu &lt;Configurar&gt; → &lt;Evento&gt; → &lt;Armazenamento&gt;.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Uma ID registrada com o NAS.                                                                                                                               | <ul style="list-style-type: none"> <li>Confirma se as informações registradas em NAS estão corretas.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Faz o relatório da falha de configuração de NAS.                                                                                                           | <ul style="list-style-type: none"> <li>Confirme que o endereço IP de NAS é válido.</li> <li>Confirme que o ID/senha do NAS é válido.</li> <li>Confirme que pode acessar à pasta designada como pasta básica usando a ID do dispositivo NAS.</li> <li>Confirme que os itens SMB/CIFS ide NAS não estão marcados.</li> <li>Confirme que o endereço IP de NAS e o endereço IP da câmera estão no mesmo formato. Exemplo) o valor inicial de NAS e da máscara de subrede da câmera é 255.255.255.0. Se o endereço IP for 192.168.20.32 então o endereço IP de NAS deve estar no intervalo entre 192.168.20.1~192.168.20.255.</li> <li>Verifique se tentou acessar como outros usuário sem formatar a pasta básica salva ou usada.</li> <li>Confirme que usou o equipamento NAS recomendado.</li> </ul> |

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| Component Name     | License | URL                                        |
|--------------------|---------|--------------------------------------------|
| Base Kernel        | GPL 2.0 |                                            |
| 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 |                                            |

### LGPL SW

| 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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lighttpd is a secure, fast, compliant, and very flexible webserver that has been optimized for high-performance environments. It has a very low memory footprint compared to other webserver and takes care of opuload. Its advanced feature-set (FastCGI, CGI, Auth, Output-Compression, URL-Rewriting and many more) make lighttpd the perfect webserver-software for every server that suffers load problems. Simple Network Management Protocol (SNMP) is an Internetstandard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor the devices attached to the network for conditions that need administrative attention. Net-SNMP is a suite of applications used to implement SNMP v1, SNMP v2c and SNMP v3 using both IPv4 and IPv6. For more additional information, send email to [help.cctv@hanwha.com](mailto:help.cctv@hanwha.com).

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

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

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

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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iperf 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).



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