

CÂMARA DE REDE

Manual do usuário

QNF-8010

QNF-9010



Câmara de rede

Manual do usuário

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Marca comercial

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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 eletricitista 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. Esse produto tem o objetivo de ser fornecido com uma unidade de fonte de alimentação marcada com "Classe 2" ou "LPS" e classificada de PoE(48V), 0.14A. (QNF-8010)
16. Esse produto tem o objetivo de ser fornecido com uma unidade de fonte de alimentação marcada com "Classe 2" ou "LPS" e classificada de PoE(48V), 0.17A. (QNF-9010)
17. Este produto tem o objetivo de ser fornecido com energia de isolamento.
18. 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.
19. 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.
20. 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.



21. 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.
22. Instalar ou usar o produto na água pode causar danos sérios no produto.

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

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

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.

O terminal VIDEO de saída do produto é fornecido para instalação mais fácil e não é recomendado para finalidades de monitoramento.

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.

Não garantimos a qualidade de produtos de terceiros (ex.: lentes, acessórios) comprados separadamente.

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.

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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 Explorer11, MS Edge, Mozilla Firefox (apenas Windows 64bit), Apple Safari (apenas Mac OS X)
 - VGA : Placa gráfica de vídeo PCIe 256MB GDDR3 ou superior
- ※ Algumas funções podem ser restritas mesmo nos navegadores suportados.

ESPECIFICAÇÕES DE CARTÃO DE MEMÓRIA MICRO SD/SDHC/SDXC

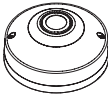
- Capacidade recomendada: 16GB a 256GB (tipo MLC)
- Fabricantes recomendados: SanDisk, Transcend
- Tipo de produto: Alta resistência
- A compatibilidade varia de acordo com os fabricantes e tipos de cartões.

ESPECIFICAÇÕES RECOMENDADAS POR NAS

- Capacidade recomendada : É recomendado 200 GB ou superior.
- Para esta câmera, é recomendado o uso de um NAS com as seguintes especificações do fabricante.
Produtos recomendados: QNAP NAS, NAS Synology

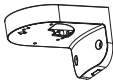
ITENS FORNECIDOS

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
	Câmera	1	
	Guia de consulta rápida (Opcional)	1	
	Cabo do monitor de teste	1	Usado para testar a conexão da câmera a um dispositivo de exibição portátil
	Gabarito	1	Guia de instalação do produto
	Chave inglesa L	1	Para remover/fixar a tampa superior

Acessórios opcionais para instalação

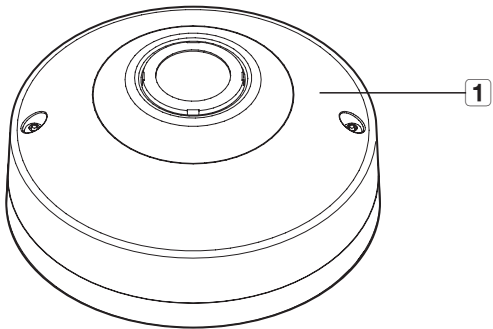
Para uma instalação fácil, você pode adquirir os acessórios opcionais apropriados disponíveis.



Nome do modelo	Montagem de parede
QNF-8010, QNF-9010	SBP-120WMW

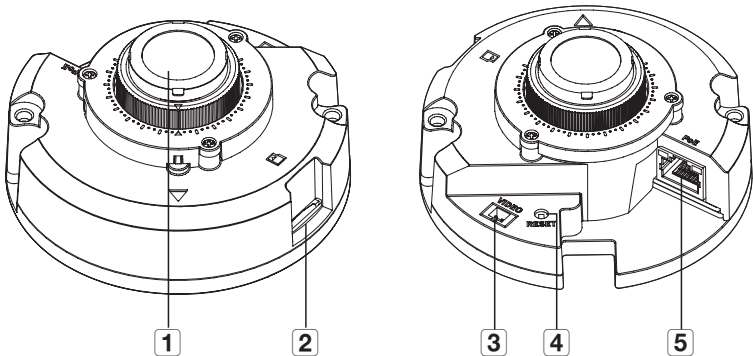
INFORMAÇÕES RESUMIDAS

Aparência

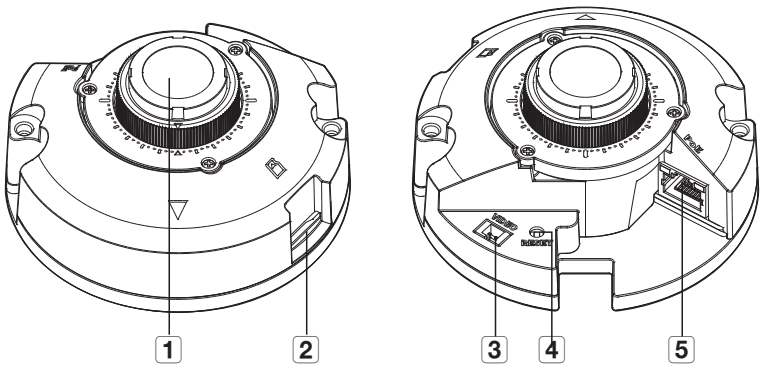


Item	Descrição
1 Tampa superior	Tampa da caixa usada para proteger a lente e a unidade principal.

Interior (QNF-8010)



(QNF-9010)



Item	Descrição
1 Objetiva Olho-de-Peixe	Esta lente proporciona uma visão de 360° e pode gravar vídeos panorâmicos.
2 Compartimento para cartões de memória Micro SD	Compartimento para cartões de memória Micro SD.
3 Saída de vídeo	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 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. 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.
5 Conector de PoE	Conecta à rede e fornece energia através de cabo Ethernet.

INSTALAÇÃO

Precauções antes da instalação

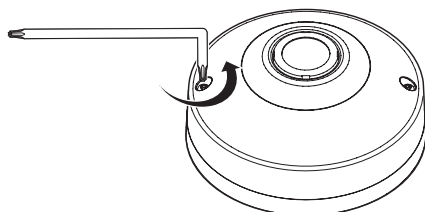
Certifique-se de ler as seguintes instruções antes de instalar a câmera:

- Selecione um local de instalação que possa suportar pelo menos 5 vezes o peso da câmera.
- 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

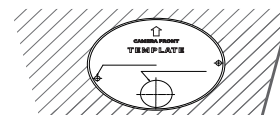
1. Retire o filme de proteção da lente.
2. Usando a chave L fornecida, desaperte 2 parafusos girando-os em sentido anti-horário e em seguida separe a tampa superior.
 - Convém notar que não é necessário desapertar completamente os parafusos.

- ! ■ Após retirá-lo, não toque na lente.

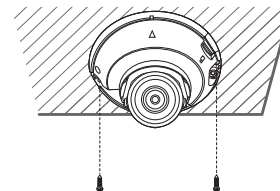


Instalação da câmera no teto ou em uma parede

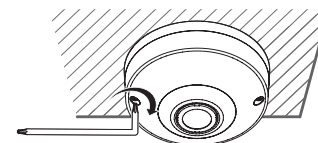
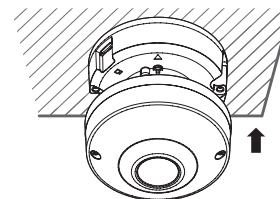
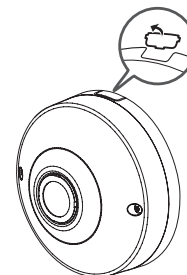
1. Leve em conta a direção a ser monitorizada, fixe o modelo e faça os furos observando o seguinte modelo.
 - Defina a marca <↑> impressa na câmera para apontar na direção do monitoramento da câmera.



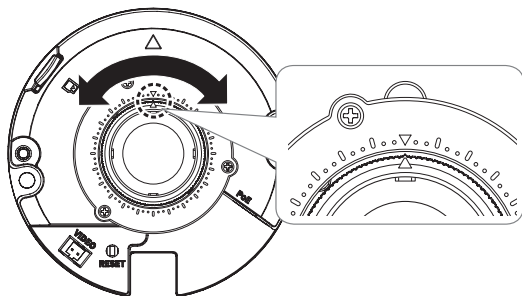
2. Usando 2 parafusos, prenda a câmera nos 2 orifícios furados com um modelo.
3. Conecte o terminal interno da câmera ao cabo correspondente.
4. Ajuste a lente em uma direção desejada consultando a seção "Ajustando a direção de monitoramento da câmera". (Página 9)



5. Feche a tampa superior e gire-a no sentido horário usando a chave L.
 - Se necessário, utilize após remover a tampa do passa-fio na lateral da parte superior da tampa.



Ajustando a direção de monitoramento da câmera



■ Ajustando a direção de monitoramento

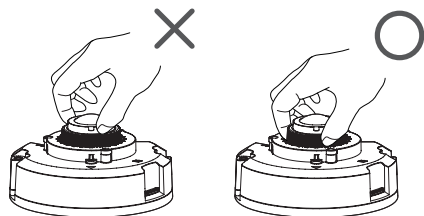
Você pode ajustar a direção da câmera apenas quando a câmera estiver fixada no teto. Em que girar a lente em seu eixo é chamado Rotação.

- O intervalo efetivo de rotação é um total de ± 180 graus.

■ Métodos de ajuste

Para ajustar a direção da câmera, segure o suporte da lente e gire-o olhando para a tela de direção.

- ! ■ Para ajustar a direção de monitoramento da câmera, segure o suporte da lente e gire-o. Se você segurar a lente para ajustar a direção, pode-se perder o foco ou suas digitais podem ficar marcadas na superfície.

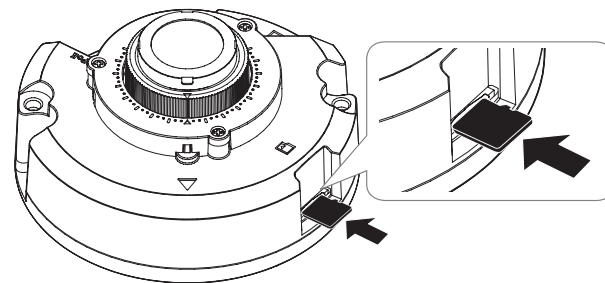


INSERINDO/REMOVENDO UM CARTÃO DE MEMÓRIA MICRO SD

- ! ■ 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.

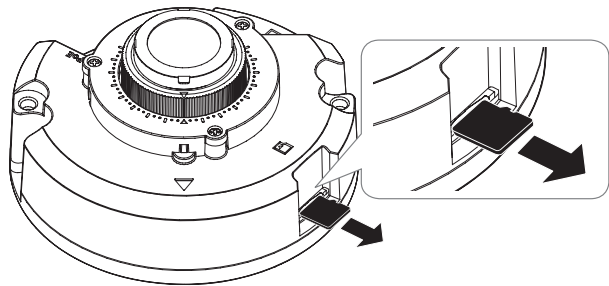
Inserindo um cartão de memória Micro SD

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



Removendo um cartão de memória Micro SD

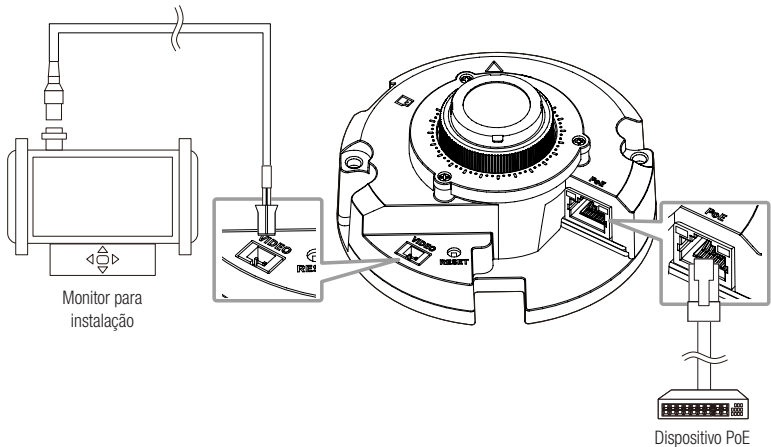
Pressione com cuidado a extremidade exposta do cartão de memória, conforme mostrado na figura, para ejetá-lo do slot.



-
- 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.

ALIMENTAÇÃO E REDE

Ligue os conectores PoE do dispositivo PoE e da câmera.



-
- O terminal VIDEO de saída do produto é fornecido para instalação mais fácil e não é recomendado para finalidades de monitoramento.
 - Ligue a um conector PoE (Power-Over-Ethernet - Alimentação sobre Ethernet) de um roteador de PoE ativado.
 - Use um PoE (Power-Over-Ethernet - Alimentação sobre Ethernet) que seja compatível com os protocolos IEEE802.3af.

Especificação do Cabo de Rede

Item	Conteúdos	Comentário
Conector	RJ45 (10/100BASE-T)	
Ethernet	10/100BASE-T	
Cabo	Categoria 5e	
Distância Máxima	100M	Resistência DC ≤ 0,125 Ω/m
Suporte PoE	IEEE 802.3af	

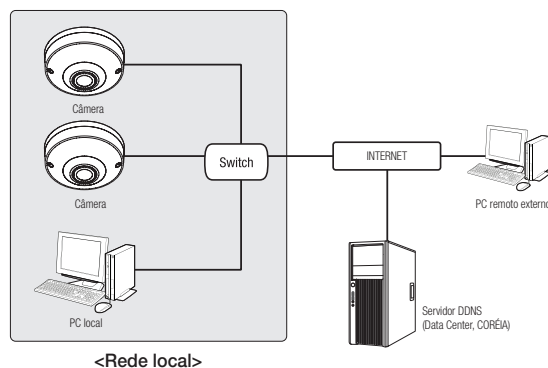
-
- Se você usar um cabo fora dos padrões 5e, o distância da transmissão de 100 m não será garantido.

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

CONECTANDO A CÂMERA DIRETAMENTE À REDE LOCAL

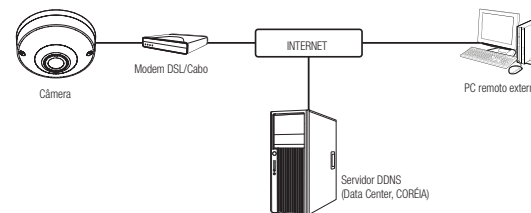
Conectando a câmera a partir de um PC local na LAN

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 12)

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 Device Manager e altere o endereço IP da câmera, para que você possa usar o navegador de rede em sua área de trabalho para se conectar 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 14)

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

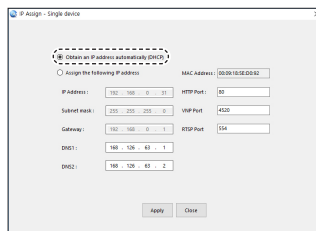
5. Clique no botão [Aplicar].
6. Se aparecer a mensagem de êxito, clique em [OK].

Configurar o IP dinâmico

Obtenha o endereço IP no DHCP

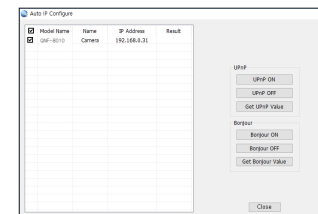
- Exemplo do ambiente de IP dinâmico
 - Se um Roteador de banda larga, com câmeras conectadas, estiver designado a um endereço IP pelo Servidor DHCP
 - Se estiver conectando a câmera diretamente ao modem usando os protocolos DHCP
 - Se os IPs estiverem designados ao servidor DHCP interno através da LAN

- 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

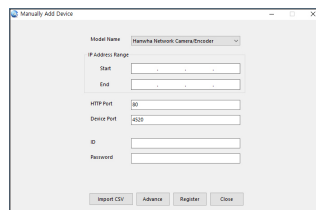
- Na lista, clique na câmera para a qual você deseja configurar automaticamente o IP.
- Clique em **< + >**, na página inicial do Device Manager.
 - O menu Configuração do equipamento é exibido.
- No menu, clique em **<Auto IP Configure (Configurar IP automático)>**.
- Clique no botão **[Close (Fechar)]**.



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 deseja registrar, e preencha as informações de porta HTTP, ID e senha.
- Clique no botão **[Register (Registrar)]**.
- Confirme se a câmera está registrada.
 - Marque o endereço MAC no adesivo junto à câmera.

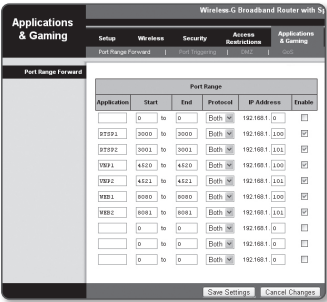


CONFIGURAÇÃO DO AVANÇO DA FAIXA DA PORTA (MAPEAMENTO DE PORTA)

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.

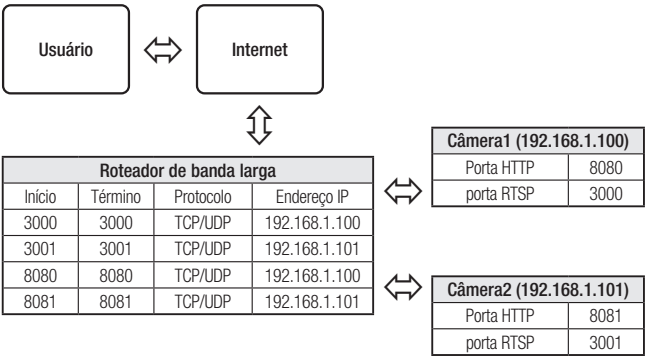


- A configuração de encaminhamento de porta é um exemplo de configuração do roteador de IP CISCO.
- As configurações podem ser diferentes dependendo do modelo do Roteador de banda larga conectado.
Para obter mais informações, consulte o manual do usuário do roteador aplicável.

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>

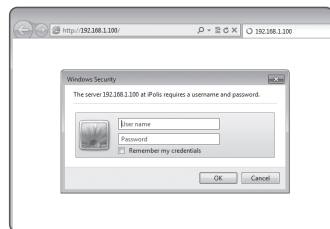


- Para usar o DDNS, cadastre-se na página do DDNS (<http://ddns.hanwha-security.com>) e registre o produto em **[Meu DDNS dinâmico]** > **[Registrar produto]**.

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.

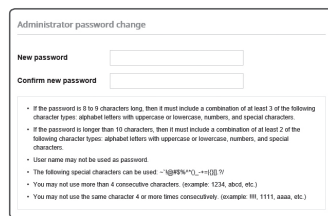
Uma vez que você registrar um dispositivo baseado em IP dinâmico com o servidor DDNS, poderá facilmente verificar o IP alterado quando tentar acessar o dispositivo. Para registrar o seu dispositivo no servidor <DDNS>, visite <http://ddns.hanwha-security.com> e registre o dispositivo primeiro; em seguida, 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 login 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.



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.

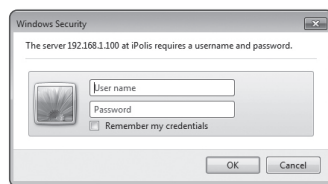
1. Digite **"admin"** na caixa de entrada **<User name>**.
O ID do administrador, **"admin"**, é fixo e não pode ser alterado.
2. Digite a senha no campo de entrada **<Password>**.
3. Clique em **[OK]**.
Se você efetuou login com sucesso, verá a tela do Visualizador ao vivo.



- 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.



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.

ESPECIFICAÇÕES

Itens		Descrição
		QNF-8010
Video	Dispositivo de imagem	1/1.8" 6M CMOS
	Pixels efetivos	2048(H) x 2048(V)
	Iluminação mín.	Cor : 0,2 Lux (F2,5, 1/30 seg)
	Saída de vídeo	CVBS : 1.0 Vp-p / 75Ω composto, 720x480(N), 720x576(P), para instalação
Lente	Distância focal (Taxa de zoom)	1,14 mm focal fixo
	Taxa de abertura máx.	F2,5
	Campo angular de visão	H : 187° / V : 187° / P : 187°
	Distância mínima do objeto	0,3m
Operacional	Título da câmera	85 caracteres exibidos
	Dia / Noite	Automático (Elétrica)
	Compensação de luz de fundo	BLC, HLC, WDR, SDR
	Faixa dinâmica ampla	120dB
	Redução de ruído digital	SSNR V
	Detecção de movimento	8ea, zonas poligonais
	Máscara de privacidade	6ea, zonas retangulares - Cor: cinza / verde / vermelho / azul / preto / branco - Mosaico
	Controle de ganho	Baixo / Médio / Alto
	Equilíbrio de branco	ATW / AWC / Manual / Interior / Exterior
	Velocidade do obturador eletrônico	Mínimo / Máximo / Anti cintilação (2 ~ 1/12,000seg)
	PTZ Digital	Suporte (Predefinido, Grupo)
	Rotação do vídeo	Inverter, Espelho
	Análise	Detecção de desfoque, Detecção de movimento, Distúrbios

Itens		Descrição
		QNF-8010
Operacional	Inteligência empresarial	Contagem de pessoas, mapa de calor
	Acionadores de alarme	Análise, Desconexão de rede
	Eventos de alarme	- Carregamento de arquivo por FTP, e-mail - Notificação por e-mail - Gravação em SD/SDHC/SDXC ou NAS em acionadores de eventos
Rede	Ethernet	RJ-45 (10/100BASE-T)
	Compressão de vídeo	H.265/H.264: Principal/Linha base/Alta, MJPEG
	Resolução	Vista Original : 2048x2048, 1280x1280, 1080x1080, 960x960, 768x768, 720x720, 640x640, 480x480 Panorama único : 2048x512, 1920x480, 1280x320, 640x160, 704x176 Panorama duplo : 2048x1024, 1920x960, 1280x640, 640x320, 704x352 Visão quádrupla : 2048x1536, 1600x1200, 1280x960, 1024x768, 800x600, 640x480, 704x576 Q1/2/3/4 : 1024x768, 800x600, 640x480
	Taxa máxima de quadros	H.264/H.265: 30 fps/25 fps@2048x2048(60Hz/50Hz) MJPEG : Máx. 15fps
	Codec Inteligente	WiseStream II
	Ajuste da qualidade de vídeo	H.264/H.265 : Controle do nível de taxa de bits alvo MJPEG : Controle de nível de qualidade
	Contr. Taxa Bits	H.264/H.265 : CBR ou VBR MJPEG : VBR
	Transmissão	Fluxo múltiplo (até 3 perfis)

Itens		Descrição
		QNF-8010
Rede	Protocolo	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
	Segurança	Autenticação de login HTTPS(SSL) Autenticação de login Digest Filtragem de endereço IP Registro de acesso do usuário Método de autenticação 802.1X (EAP-TLS, EAP-LEAP)
	Armazenamento local em cartão	1 ranhuras Micro SD/SDHC/SDXC 256GB
	Interface de Aplicação de Programação	ONVIF Profile S/G SUNAPI(HTTP API) Wisenet plataforma aberta
	Idioma da página da Web	Inglês, Francês, Alemão, Espanhol, Italiano, Chinês, Coreano, Russo, Japonês, Sueco, Português, Tcheco, Polonês, Turco, Holandês, Húngaro, Grego
	Visualizador da Web	SO suportado : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14 Navegador recomendado: Google Chrome Navegadores suportados : MS Explorer11, MS Edge, Mozilla Firefox (Apenas suportado em Window 64bit), Apple Safari (Apenas suportado em Mac OS X)
	Memória	1024MB RAM, 256 MB Flash

Itens		Descrição
		QNF-8010
Condições ambientais	Temperatura / umidade operacional	-10°C ~ +55°C (+14°F ~ +131°F) / Menos de 90% UR
	Temperatura / Umidade de armazenamento	-50°C ~ +60°C (-58°F ~ +140°F) / Menos de 90% UR
	Certificação	IP42
Elétrica	Tensão de entrada	PoE(IEEE802.3af, Class3)
	Consumo de energia	PoE: Máx 6,4 W, típico 4,6 W
Mecânica	Cor / material	Branco / Plástico
	Código RAL	RAL9003
	Peso / dimensões do produto	Ø99 x 49 mm (Ø3,9 x 1,93"), 320 g (0,705 lb)

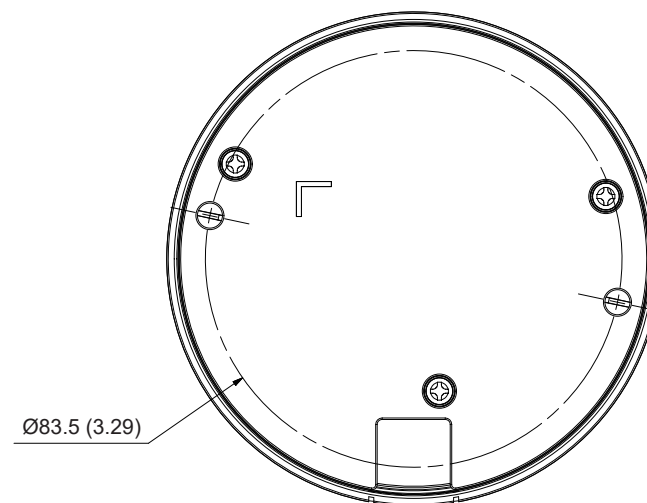
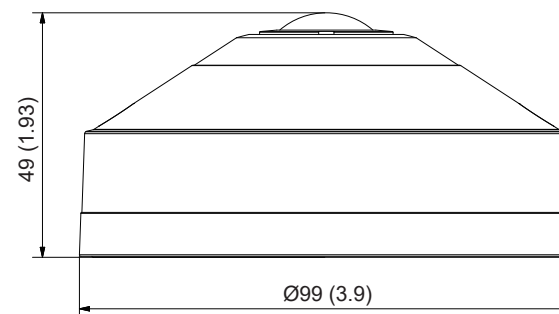
Itens	Descrição	
	QNF-9010	
Video	Dispositivo de imagem	1/2.3" 12M CMOS
	Pixels efetivos	3008(H) x 3008(V)
	Iluminação mín.	Cor : 0,39 Lux (F2.2, 1/30 seg)
	Saída de vídeo	CVBS : 1.0 Vp-p / 75Ω composto, 720x480(N), 720x576(P), para instalação
Lente	Distância focal (Taxa de zoom)	1,08 mm focal fixo
	Taxa de abertura máx.	F2.2
	Campo angular de visão	H : 187° / V : 187° / P : 187°
	Distância mínima do objeto	0,5 m(1,64 pés)
Operacional	Título da câmera	85 caracteres exibidos
	Dia / Noite	Automático (Elétrica)
	Compensação de luz de fundo	BLC, WDR, SDR
	Faixa dinâmica ampla	120dB
	Redução de ruído digital	SSNR V
	Deteção de movimento	4ea, zonas poligonais
	Máscara de privacidade	6ea, zonas retangulares - Cor: cinza / verde / vermelho / azul / preto / branco
	Controle de ganho	Baixo / Médio / Alto
	Equilíbrio de branco	ATW / AWC / Manual / Interior / Exterior
	Velocidade do obturador eletrônico	Mínimo / Máximo / Anti cintilação (2 ~ 1/12,000seg)
	PTZ Digital	Suporte (Predefinido, Grupo)
	Rotação do vídeo	Inverter, Espelho
	Análise	Deteção de desfoque, Deteção de movimento, Distúrbios
	Inteligência empresarial	Contagem de pessoas, mapa de calor
	Acionadores de alarme	Análise, Desconexão de rede
	Eventos de alarme	- Carregamento de arquivo por FTP, e-mail - Notificação por e-mail - Gravação em SD/SDHC/SDXC ou NAS em acionadores de eventos

Itens	Descrição	
	QNF-9010	
Rede	Ethernet	RJ-45 (10/100BASE-T)
	Compressão de vídeo	H.265/H.264: Principal/Alta, MJPEG
	Resolução	Vista Original: 3008x3008, 640x640 Panorama duplo: 2560x1280, 1920x960, 1280x640, 1024x512, 640x320 Panorama único: 3200x800, 2560x640, 1920x480, 1280x320, 1024x256 Visão quádrupla: 2560x1920, 1920x1440, 1280x960, 1024x768, 640x480
	Taxa máxima de quadros	H.265/H.264: Vista Original – Máx. 30 fps/25 fps@3008x3008 (60 Hz/50 Hz), Panorama duplo – Máx. 28 fps/25 fps@3200x800 (60 Hz/50 Hz), Panorama único – Máx. 28 fps/25 fps@2560x1280 (60 Hz/50 Hz) MJPEG: Máx. 5 fps (60 Hz/50 Hz)
	Codec Inteligente	Manual (área 5 ea), WiseStream II
	Ajuste da qualidade de vídeo	H.264/H.265 : Controle do nível de taxa de bits alvo MJPEG : Controle de nível de qualidade
	Contr. Taxa Bits	H.264/H.265 : CBR ou VBR MJPEG : VBR
	Transmissão	Unicast (6 usuários) / Multicast Fluxo múltiplo (até 3 perfis)

Itens		Descrição
		QNF-9010
Rede	Protocolo	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour
	Segurança	Autenticação de login HTTPS(SSL) Autenticação de login Digest Filtragem de endereço IP Registro de acesso do usuário Método de autenticação 802.1X (EAP-TLS, EAP-LEAP) Certificação do dispositivo (raiz CA Hanwha Vision)
	Armazenamento local em cartão	1 ranhuras Micro SD/SDHC/SDXC 256GB
	Interface de Aplicação de Programação	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet plataforma aberta
	Idioma da página da Web	Inglês, Francês, Alemão, Espanhol, Italiano, Chinês, Coreano, Russo, Japonês, Sueco, Português, Tcheco, Polonês, Turco, Holandês, Húngaro, Grego
	Visualizador da Web	SO suportado : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14 Navegador recomendado: Google Chrome Navegadores suportados : MS Explorer11, MS Edge, Mozilla Firefox (Apenas suportado em Window 64bit), Apple Safari (Apenas suportado em Mac OS X)
	Memória	2048 MB RAM, 256 MB Flash
Condições ambientais	Temperatura / umidade operacional	-10°C ~ +40°C(+14°F ~ +104°F) / Menos de 90% UR
	Temperatura / Umidade de armazenamento	-50°C ~ +60°C (-58°F ~ +140°F) / Menos de 90% UR
	Certificação	IP42
Elétrica	Tensão de entrada	PoE(IEEE802.3af, Class3)
	Consumo de energia	PoE: Máx 7,7 W, típico 6,4 W
Mecânica	Cor / material	Branco / Plástico
	Código RAL	RAL9003
	Peso / dimensões do produto	Ø99 x 49 mm (Ø3,9 x 1,93'), 370 g (0.816 lb)

EXIBIÇÃO DO PRODUTO

Unidade: mm (polegadas)



SOLUÇÃO DE PROBLEMAS

PROBLEMA	SOLUÇÃO
Não é exibido nenhum vídeo ao acessar o visualizador web com plug-in gratuito no navegador Safari via HTTPS.	- 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". - 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.
Não consigo acessar a câmera de um navegador da Web.	- Verifique se as configurações de rede da câmera são apropriadas. - Verifique se todos os cabos de rede foram conectados corretamente. - Se foi conectada usando DHCP, verifique se a câmera consegue obter os endereços IP dinâmicos sem qualquer problema. - Se a câmera estiver conectada a um Roteador de banda larga, verifique se o encaminhamento da porta está corretamente configurado.
O visualizador foi desconectado durante o monitoramento.	- Os visualizadores conectados são desconectados após qualquer alteração na câmera ou nas configurações de rede. - Verifique todas as conexões da rede.
A câmera conectada à rede não é detectada no programa Device Manager.	Desative as configurações de firewall em seu PC e pesquise a câmera novamente.
Sobreposição de imagens.	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.
Nenhuma imagem é exibida.	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.
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.	- Verifique as configurações na seguinte sequência: A. Verifique <Data e horário>. B. A <Detecção de movim.> deve ser configurada para <Ativar>. C. Verifique se a opção de <E-mail> do menu de <Configuração de evento> está marcada como Usar.
Não é possível gravar no cartão de memória Micro SD.	Verifique se o cartão de memória está defeituoso.

PROBLEMA	SOLUÇÃO
O cartão de memória Micro SD está inserido, mas a câmera não está funcionando corretamente.	- 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. - Formate o cartão de memória novamente pelo menu <Configurar> → <Evento> → <Armazenamento>.
Uma ID registrada com o NAS.	Confirma se as informações registradas em NAS estão corretas.
Faz o relatório da falha de configuração de NAS.	- Confirme que o endereço IP de NAS é válido. - Confirme que o ID/senha do NAS é válido. - Confirme que pode acessar à pasta designada como pasta básica usando a ID do dispositivo NAS. - Confirme que os itens SMB/CIFS ide NAS não estão marcados. - 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. - Verifique se tentou acessar como outros usuário sem formatar a pasta básica salva ou usada. - Confirme que usou o equipamento NAS recomendado.

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GPL SW

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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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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Este equipamento foi testado e constatado como atendendo os limites para um dispositivo digital Classe A, de acordo com a seção 15 das Regras FCC. Estes limites se destinam a fornecer uma proteção razoável contra interferência prejudicial quando o equipamento for operado em uma ambiente comercial. Este equipamento gera, utiliza e pode irradiar energia de radiofrequência e, se não instalado e utilizado de acordo com o manual de instruções poderá causar interferência prejudicial às comunicações de rádio. A operação deste equipamento em uma área residencial irá provavelmente causar interferência prejudicial e neste caso o usuário será solicitado a corrigir a interferência às suas próprias expensas.



A Hanwha Vision respeita e preserva o meio ambiente em todos os estágios de produção e toma várias medidas para oferecer aos clientes aparelhos mais ecológicos.

A marca Eco representa a determinação da Hanwha Vision em criar aparelhos ecológicos e indica que o aparelho satisfaz a diretiz RoHS da União Europeia.



Eliminação correta deste produto (Lixo de equipamentos elétricos e eletrônicos)

(Aplicável na União Europeia e em outros países europeus com sistemas de coleta seletiva.)

A presença desta marca no produto ou na respectiva literatura indica que ele não deve ser eliminado com outros resíduos domésticos no fim da sua vida útil. Para evitar possíveis danos ao ambiente ou à saúde causados pela eliminação não controlada de lixo, separe-o de outros tipos de lixo e recicle-o de forma adequada para promover a reutilização sustentável de recursos materiais.

Os usuários domésticos devem entrar em contato com o comerciante do qual adquiriram este produto, ou com o órgão governamental local, para obter detalhes e explicações sobre como garantir que este produto seja reciclado de modo seguro.

Os usuários comerciais devem entrar em contato com os respectivos fornecedores e verificar os termos e condições do contrato de compra. O produto não pode ser misturado a outros lixos comerciais para eliminação.



Eliminação correcta das baterias existentes neste produto

(Aplicável na União Europeia e noutros países europeus com sistemas de recolha de baterias separados.)

Esta marca, apresentada na bateria, manual ou embalagem, indica que as baterias existentes neste produto não devem ser eliminadas juntamente com os resíduos domésticos indiferenciados no final do seu período de vida útil. Onde existentes, os símbolos químicos Hg, Cd ou Pb indicam que a bateria contém mercúrio, cádmio ou chumbo acima dos níveis de referência indicados na Directiva CE 2006/66. Se as baterias não forem correctamente eliminadas, estas substâncias poderão ser prejudiciais para a saúde humana ou para o meio ambiente. Para proteger os recursos naturais e promover a reutilização dos materiais, separe as baterias dos outros tipos de resíduos e recicle-as através do sistema gratuito de recolha local de baterias.

