

CÂMERA DE POSICIONAMENTO TERMOGRÁFICA

Manual do usuário

TNU-4041T

TNU-4051T

CÂMERA DE POSICIONAMENTO TERMOGRÁFICA

Manual do usuário

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❖ 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. Este produto é concebido para ser fornecido por uma Unidade de Fonte de Energia Listada marcada como "Classe 2" ou "LPS" e classificado de 24 V AC (50 ou 60 Hz) mín. 6 A.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.

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 CVBS 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.

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.

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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 10.10, 10.11, 10.12
- Webviewer
Navegador recomendado: Google Chrome 63
Navegadores compatíveis: IE11, MS Edge 41, Mozilla Firefox 57 (apenas para Windows 64bit), Apple Safari 11 (apenas para Mac OS X)

ESPECIFICAÇÕES RECOMENDADAS PARA CARTÃO DE MEMÓRIA MICRO SD SDHC/SDXC

- Recommended capacity : 16GB to 256GB (MLC type)
- The following types of memory cards from the following manufacturers are recommended for this camera.
 - Manufacturer : SanDisk, Transcend
 - Product family : High endurance

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
NAS QNAP	Um máximo de 16 câmeras podem acessar simultaneamente.
NAS Synology	Um máximo de 16 câmeras podem acessar simultaneamente.

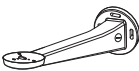


Se usar o equipamento da NAS para outros fins que não salvar vídeo, o número de câmeras acessíveis pode ser reduzido.

ITENS FORNECIDOS

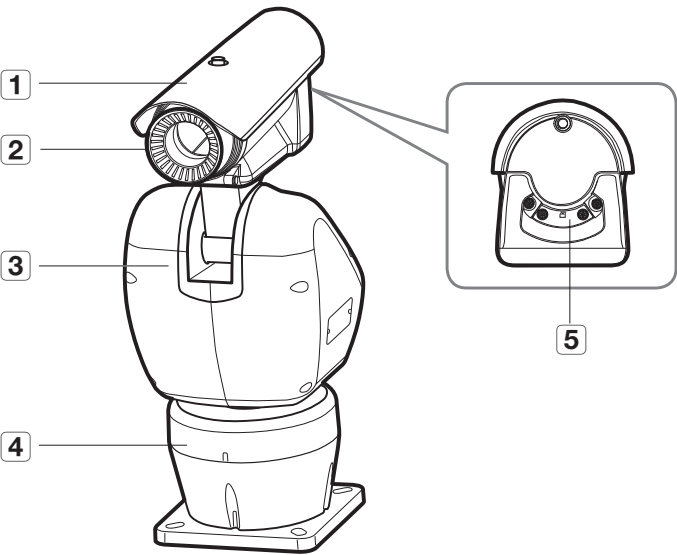
Verifique se sua câmera e os acessórios estão inclusos no pacote do produto.
(Dado que para cada país de vendas, os acessórios não são os mesmos.)

Aparência	Nome do item	Quantidade	Descrição
	Corpo da câmera	1	-
	Guia de consulta rápida (Opcional)	1	-
	Cartão de garantia (Opcional)	1	-
	Protetor solar	1	Protege a câmera da luz direta do sol.
	Suporte do protetor solar	1	Fixa o protetor solar à câmera.
	Chave em estrela	1	Para anexar a tampa do compartimento de memória
	Acessório impermeável RJ45	1	Usado em instalações em locais úmidos

Aparência	Nome do item	Quantidade	Descrição
Suporte de parede (não inclusas)			
	Suporte de parede	1	Usado ao instalar a câmera na parede
	Parafusos sextavados(M5 X 20) / Anilhas lisas	3/3	Para conectar o corpo principal e suporte
	Parafusos (M3 x 8)	8	Para conexão da cobertura de fiação
	O-ring	1	Para conectar o corpo principal e suporte

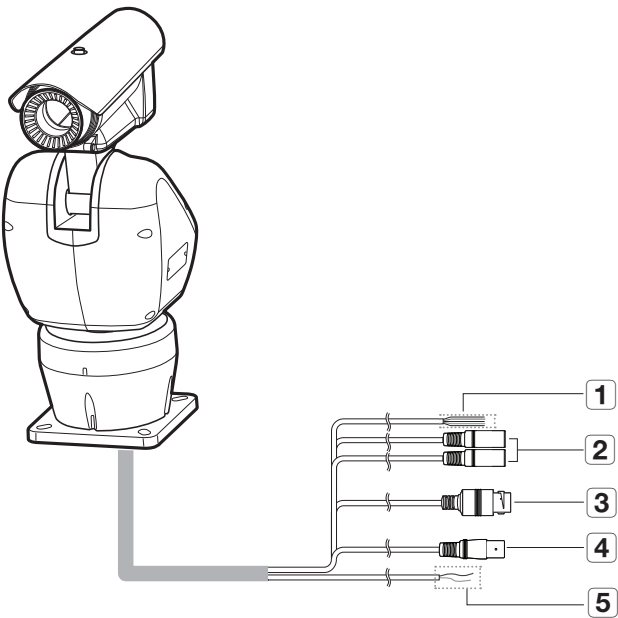
INFORMAÇÕES RESUMIDAS

Aparência



Item	
1	Para-sol
2	Câmera
3	Corpo principal
4	Invólucro base
5	Ranhura para cartão Micro SD

Cabos



Item	Descrição
1	Cabo de alarme Cabo de alarme Entrada/Saída. (Preto/Marrom/Vermelho/Amarelo/Laranja)
2	Cabo de áudio Cabo de áudio Entrada/Saída.
3	Ethernet Conecta o cabo Ethernet.
4	Cabo de saída de vídeo Emite o vídeo.
5	Cabo de energia Cabos para alimentação da câmera. (Marrom/Azul)

INSTALAÇÃO

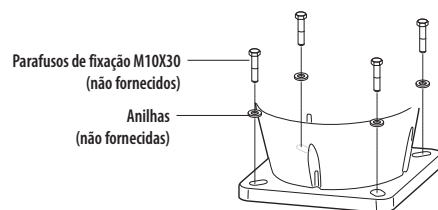
Precauções antes da instalação

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

- Instale o sistema com base nas seguintes instruções. Se pretende fazer a instalação usando um método diferente, deve confirmar as recomendações de segurança fazendo um pedido ao fabricante com antecedência.
- O peso bruto do sistema é de 11,7 kg. Deve ser usado um par de luvas antiderrapantes. Ao erguer o seu dispositivo, não segure a câmera, e sim o corpo.
- Deve ser instalada em área (teto ou parede) que possa suportar 4 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.

Instale o pedestal no chão

1. Instale o pedestal no chão.



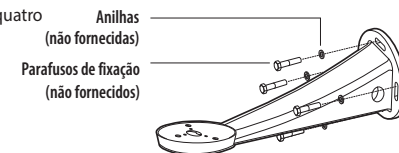
- Recomendamos o uso de parafusos de fixação M10X30 ou melhor instalar a câmera em concreto.
- Use parafusos que suportem mais de 4 vezes o peso do equipamento.

Acessórios opcionais para instalação

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

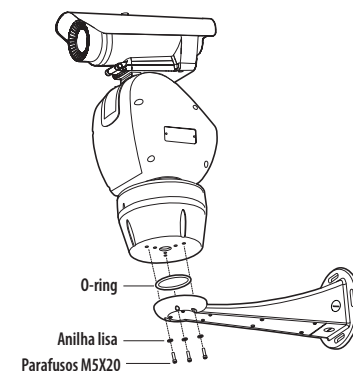
Montagem na parede usando o suporte

1. Conecte a parte lateral do suporte à parede usando quatro parafusos de fixação (não fornecidos).

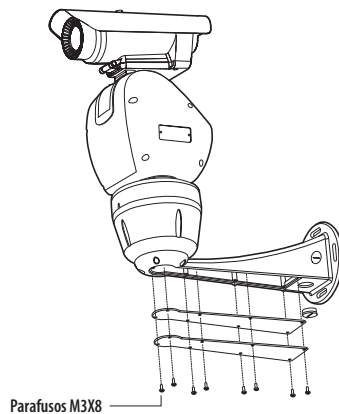


- Recomendamos o uso de parafusos de fixação M10X30 ou melhor instalar a câmera em concreto.
- Use parafusos que suportem mais de 4 vezes o peso do equipamento.

2. Una o corpo principal e o suporte usando 3 parafusos sextavados.



3. Depois de organizar os cabos como indicado, monte a cobertura.

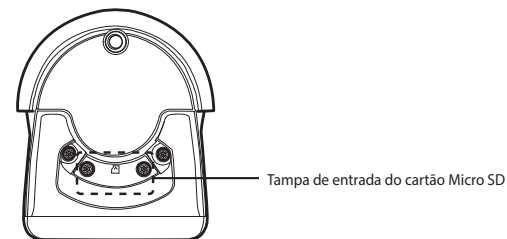


INSERINDO/REMOVENDO UM CARTÃO DE MEMÓRIA MICRO SD

- ❗ 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.

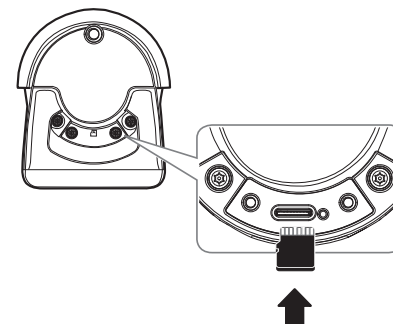
Separar a tampa de entrada do cartão Micro SD

Use a chave sextavada para remover a tampa de entrada do cartão Micro SD.



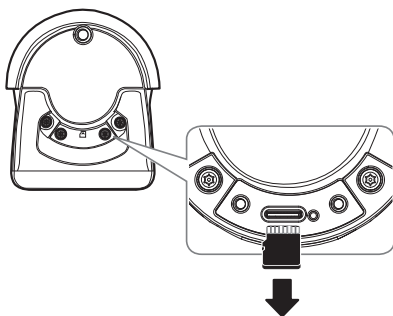
Inserindo um cartão de memória Micro SD

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.

INFORMAÇÕES SOBRE O CARTÃO DE MEMÓRIA (NÃO INCLUSO)

O que é um cartão de memória?

O cartão de memória é um dispositivo de armazenamento de dados externo que foi desenvolvido para oferecer uma maneira completamente nova de gravar e compartilhar dados de vídeo, áudio e texto utilizando dispositivos digitais.

Selecionando um cartão de memória adequado para você

Sua câmera oferece suporte a cartões de memória Micro SD/SDHC/SDXC.

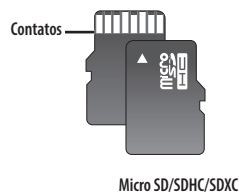
Você pode, no entanto, ter problemas de compatibilidade dependendo do modelo e da marca do cartão de memória.

São recomendados para esta câmera os seguintes tipos de cartões de memória dos seguintes fabricantes.

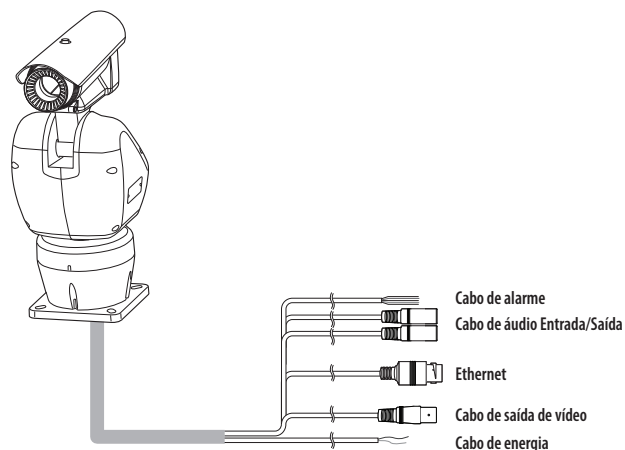
- Fabricante: SanDisk, Transcend
- Família do Produto: Elevada resistência

Recomendamos o uso de cartões de memória de 16GB a 256GB (tipo MLC) com esta câmera.

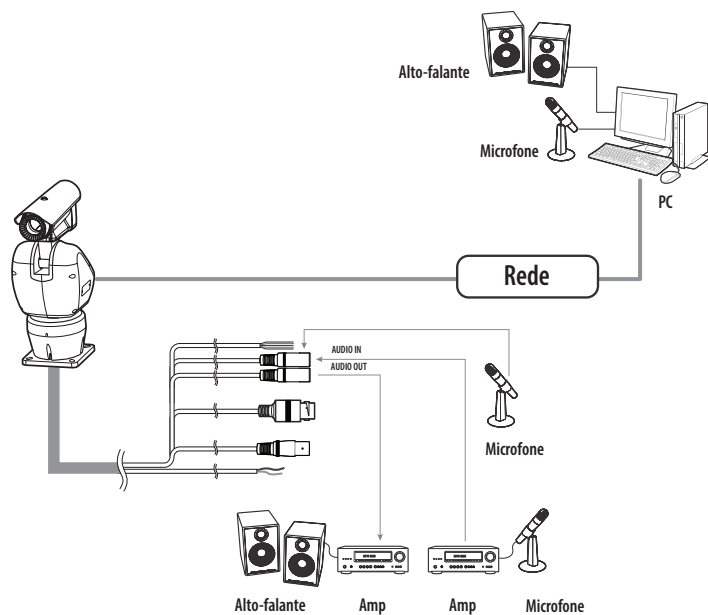
O desempenho de reprodução pode ser afetado, dependendo da velocidade do cartão de memória.



CONECTANDO A OUTRO DISPOSITIVO



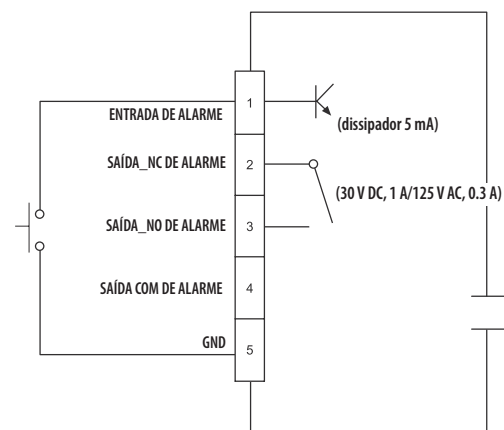
Conectando à entrada/saída de áudio



1. Conecte a porta AUDIO IN da câmera diretamente no microfone ou a porta LINE OUT do amplificador ao qual o microfone está conectado.
2. Conecte a porta AUDIO OUT da câmera à porta LINE IN do alto-falante.
3. Verifique as especificações para a entrada de áudio.

- **Codex de áudio** : Amostragem de G.711 PCM, μ -law 64kbps 8kHz
- **Áudio full duplex**
- **Entrada de áudio** : Usada para a entrada de linha de sinal mono (Máx.2.4 Vpp)
- **Saída de áudio** : Usada para a saída de linha de sinal mono (Máx.2.4 Vpp)
- **Impedância de saída de linha** : 600 Ω

Diagrama de fiação de E/S do alarme



Como ligar os cabos externos

Ligue os cabos externos consultando a tabela abaixo.

- ! ■ Ligue os cabos de entrada/saída de alarme para cada terminal um por um.

Impressão de etiqueta	COR	Descrição	Observações
ENTRADA_ DE_ALARME	Preto	Terminal para conectar o sinal de entrada do alarme externo	
GND	Marrom	Terminal comum (GND) para conectar o sinal de entrada do alarme externo	
SAÍDA NO DE ALARME	Vermelho	Terminal (NO) para conectar o sinal de saída do relé	
SAÍDA COM DE ALARME	Amarela	Terminal (GND) para conectar o sinal de saída do relé	
SAÍDA NC DE ALARME	Laranja	Terminal (NC) para conectar o sinal de saída do relé	

Conexão Ethernet

Conecte o cabo Ethernet à rede local ou à Internet.

Fonte de alimentação

Conecte a linha do adaptador de tensão ao terminal de entrada de tensão da câmera.

Item	COR
Alimentação principal	MARROM
	AZUL

- ! ■ Certifique-se de que liga a fonte de energia AC24V (não-polar) enquanto a energia está desligada.

Especificação do Cabo de Rede

Item	Conteúdos	Comentário
Conector	RJ45	
Ethernet	10/100Base-T	10/100 Mbps
Cabo	Categoria 5e UTP	
Distância Máxima	100M	

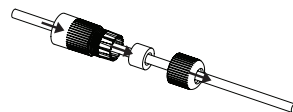
Especificação do cabo de alimentação

Em caso de Entrada de AC24V:

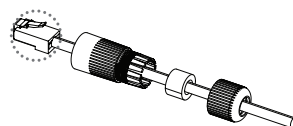
Tipo de Fio (AWG)	#16	#14
Comprimento do Cabo (Max.)	15 m	24 m

Como conectar o cabo impermeável RJ45 a um cabo de LAN

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

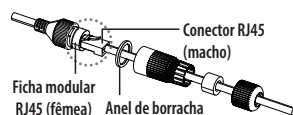


2. Conecte o conector de LAN (macho) ao cabo.

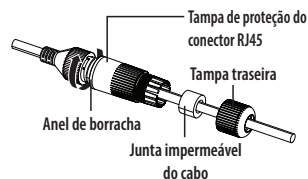


3. Conecte a ficha modular RJ45 (fêmea) ao conector RJ45 (macho).

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

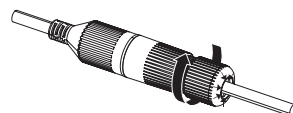


4. Monte girando a ficha modular RJ45 (fêmea) e a tampa de proteção RJ45 no sentido horário (Siga a seta).



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.



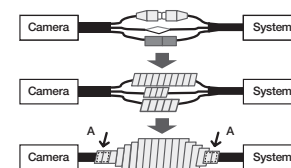
Instalação no exterior

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 a alimentação, I/O, AUDIO e os cabos LAN.

2. Envolver 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.
- Você não precisa passar fita isolante separadamente, uma vez que o cabo conector LAN é à prova d'água.



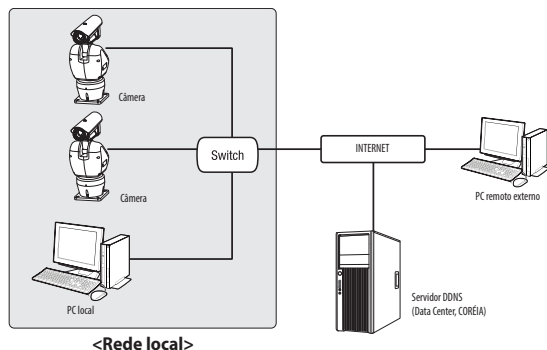
conexão e configuração de rede

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

CONECTANDO A CÂMERA DIRETAMENTE À REDE LOCAL

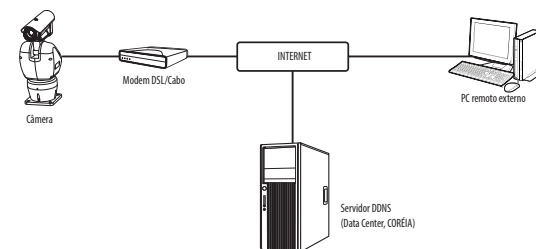
Conectando a câmera a partir de um PC local na LAN

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.
- No Device Manager, você pode usar a senha inicial "4321" para configurar o endereço IP, a máscara de sub-rede, o gateway, a porta HTTP, a porta VNP e o tipo de IP. Depois de mudar o interface de rede, para uma melhor segurança, acesse o visualizador web e mude a senha.
- 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 17)

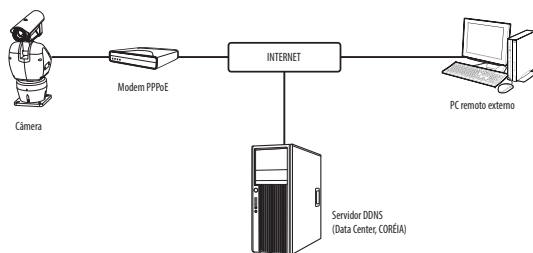
CONECTANDO A CÂMERA DIRETAMENTE A UM DHCP COM BASE NO MODEM DSL/CABO



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 [Setup].
5. Vá para [Network] – [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.

CONECTANDO A CÂMERA DIRETAMENTE A UM MODEM PPPoE

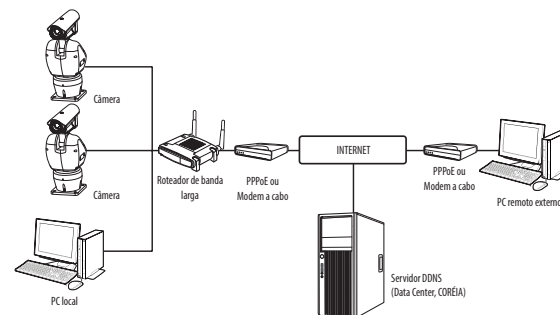


1. Conecte o PC do usuário diretamente à câmera de rede.
2. Execute o Device Manager e altere o endereço IP da câmera, para que você possa usar o navegador de rede em sua área de trabalho para se conectar à internet.
3. Use o navegador da Internet para conectar-se ao visualizador da web.
4. Vá para a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

- For information on how to set DDNS, refer to the online help of Web Viewer.
- For information on how to set the IP, refer to the online help of Web Viewer.

CONECTANDO A CÂMERA A UM ROTEADOR DE BANDA LARGA COM O MODEM PPPoE/CABO

Isso se aplica a um pequeno ambiente de rede, tal como casas, SOHO e lojas comuns.



Definindo as configurações de rede do PC local conectado a um Roteador de banda larga

Ao definindo as configurações de rede do PC local conectado a um Roteador de banda larga, siga as instruções abaixo.

- Selecione : **<Network>** → **<Properties>** → **<Local Area Connection>** → **<General>** → **<Properties>** → **<Internet Protocol (TCP/IP)>** → **<Properties>** → **<Obtain an IP address automatically>** ou **<Use the following IP address>**.
- Siga as instruções abaixo, se selecionar **<Usar o seguinte endereço IP>**:
 - Por ex 1) Se o endereço (LAN IP) do Roteador de banda larga for 192.168.1.1
 - Endereço IP : 192.168.1.100
 - Máscara de sub-rede : 255.255.255.0
 - Gateway padrão : 192.168.1.1
 - Por ex 2) Se o endereço (LAN IP) do Roteador de banda larga for 192.168.0.1
 - Endereço IP : 192.168.0.100
 - Máscara de sub-rede : 255.255.255.0
 - Gateway padrão : 192.168.0.1
 - Por ex 3) Se o endereço (LAN IP) do Roteador de banda larga for 192.168.xxx.1
 - Endereço IP : 192.168.xxx.100
 - Máscara de sub-rede : 255.255.255.0
 - Gateway padrão : 192.168.xxx.1
- Para o endereço do Roteador de banda larga, consulte a documentação do produto.
- 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 19)

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.
- VNP Port : Usada para controlar a transferência de sinal, definida, por padrão, como 4520.
- 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 19)

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
	VNP Port	4520	4521
	RTSP Port	554	555



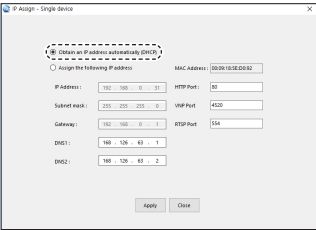
- Se a <HTTP Port> estiver configurada para um valor que não seja 80, você terá que fornecer o número de <Port> na barra de endereço do navegador de Internet antes que possa acessar a câmera.
Por ex) http://IP address : HTTP Port
http://192.168.1.100:8080

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

Configurar o IP dinâmico

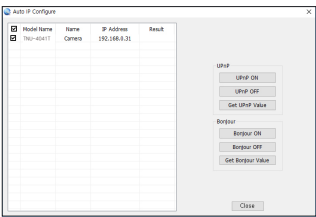
Obtenha o endereço IP no DHCP

- 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

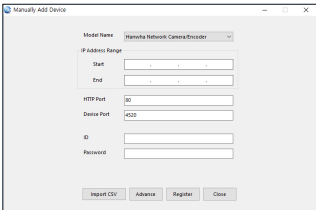
- Na lista, clique na câmera para a qual você deseja configurar automaticamente o IP.
 - O menu Configuração do equipamento é exibido.
- Clique em < + >, na página inicial do Device Manager.
- No menu, clique em <Auto IP Configure (Configurar IP automático)>.
- Clique no botão [Close (Fechar)].



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, porta VNP, ID e senha.
- Clique no botão [Register (Registrar)].
- Confirme se a câmera está registrada.
 - Marque o endereço MAC no adesivo junto à câmera.

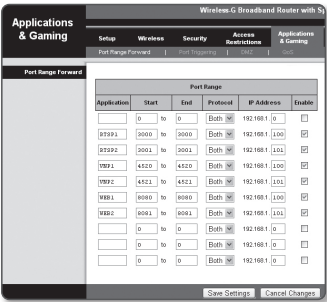


CONFIGURAÇÃO DO AVANÇO DA FAIXA DA PORTA (MAPEAMENTO DE PORTA)

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.

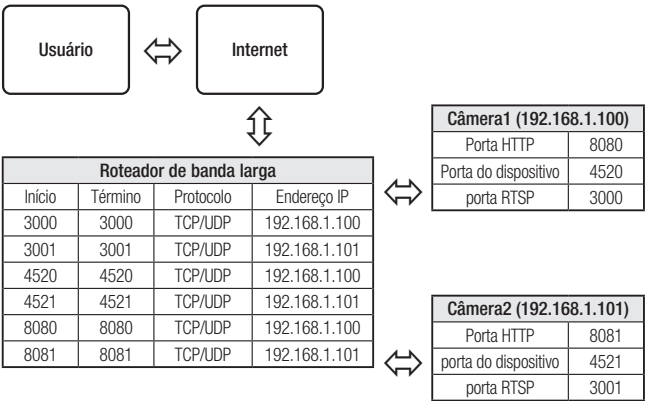


- A configuração de encaminhamento de porta é um exemplo de configuração do roteador de IP CISCO.
- As configurações podem ser diferentes dependendo do modelo do Roteador de banda larga conectado.
Para obter mais informações, consulte o manual do usuário do roteador aplicável.

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>

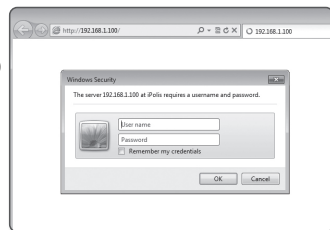


- Para usar o DDNS, cadastre-se na página do DDNS (<http://ddns.hanwha-security.com>) e registre o produto em **[Meu DDNS dinâmico]** > **[Registrar produto]**.

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 : https://ddns.hanwha-security.com/ID do produto
- 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 ao modem a cabo DHCP, modem DSL ou modem PPPoE, o endereço IP de sua rede será alterado sempre que você tentar se conectar ao servidor ISP (Provedor de serviço de Internet). Se esse for o caso, você não será informado do endereço IP alterado por DDNS.

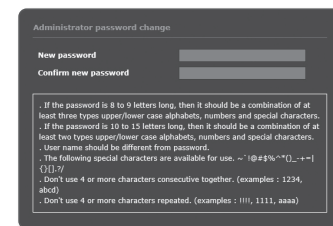
Uma vez que você registrar um dispositivo baseado em IP dinâmico com o servidor DDNS, poderá facilmente verificar o IP alterado quando tentar acessar o dispositivo.

Para registrar o seu dispositivo no servidor <DDNS>, visite <https://ddns.hanwha-security.com> e registre o dispositivo primeiro; em seguida, configure <Network> - <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.

Quando aparece a janela de “Alteração de senha”, digite a nova senha.



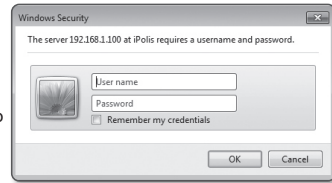
- ! ■ Para uma nova senha com 8 a 9 dígitos, você deve usar pelo menos 3 dos seguintes: letras maiúsculas/minúsculas, números e caracteres especiais. Para uma senha com 10 a 15 dígitos, você deve usar pelo menos 2 tipos dos mencionados.
- Caracteres especiais são permitidos: ~ ! @ # \$ % ^ & * () _ + = { } [] . ? /
 - 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.

visualizador da web

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.

ESPECIFICAÇÕES DO PLUG-IN DE SUPORTE PARA CADA NAVEGADOR

O plug-in existente do visualizador da web e um visualizador da web com plug-in gratuito estão incorporados juntos. Isso permite que você use o visualizador web em ambientes de navegador mais recentes que não suportam plug-ins, tais como o Chrome, EDGE e FireFox (apenas Windows 64-bit). Para navegadores que permitem a instalação de plug-ins, tais como IE e Safari, recomenda-se que instale o plug-in.

De acordo com o ambiente do navegador, podem ser observadas as seguintes diferenças.

- **Navegadores Chrome, FireFox(apenas Windows 64-bit), EDGE** : Apesar de não suportarem plug-ins, você pode usar um visualizador da web pois está incorporado um visualizador da web com plug-in gratuito.
 - ! Como o visualizador da web gratuito com plug-in tem um desempenho mais baixo que o plug-in do visualizador da web, ele tem um limite no monitoramento de perfil de alta qualidade e reprodução de vídeos salvos.
Para monitorizar perfil de alta qualidade e reproduzir vídeos salvos, use um visualizador da web com plug-in ou um SmartViewer.
 - Condições de criação do visualizador web livre de plug-in: O perfil selecionado excede MJPEG Full HD 10fps H.264 (Chrome : Suportada resolução de tela cheia / Edge, Firefox, Safari : Full HD 30 fps ou superior) H.265 FullHD 10fps 2Mbps ou superior
 - Plug-in-free playback conditions: MJPEG/H.264 full screen resolution, H.265 HD or below
 - ! A característica sem plug-in foi otimizada para o navegador Chrome.
 - ! Suporta Streaming Adaptável
 - Esta é a característica que reduz automaticamente o perfil se houver um atraso superior a 5 segundos. Foi concebida para prevenir problemas como a latência aumentada e nenhuma resposta do navegador ao reproduzir um vídeo em um sistema com especificações de hardware inferiores ao recomendado.
A sequência de redução de vídeo é a seguinte: 1920*1080(20fps) -> 1280*720(20fps) -> 640*480(20fps).
- **Navegador IE, Safari** : Você pode usar um visualizador da web mesmo se não instalar o visualizador da web com plug-in existente.
 - ! Para monitorizar/reproduzir um vídeo salvo sem problemas, é necessário instalar um plug-in.

INSTALANDO O PLUG-IN DO WebViewer

Para acessar o visualizador web com plug-in e reproduzir um vídeo em direto (H.264/H.265) ou um vídeo gravado, será exibida uma mensagem de instalação. Nesse momento você precisa instalar o visualizador web com plug-in para usar a função corretamente.

1. Quando é acessada a página de monitoramento pela primeira vez, é exibida a página de instalação. Clique em **[Download plugin]** para iniciar a instalação.
 - ! Se o estado de download do plug-in do arquivo de instalação for suspenso em 99% no navegador Internet Explorer, tente novamente após selecionar "Release SmartScreen filter" em "Tool → SmartScreen filter".
2. Clique em **[Run]** na janela da mensagem.
3. Clique em **[Yes]** quando for exibida a janela de aviso que diz que todas as janelas de navegação serão encerradas.
 - ✎ As etapas 4 e 5 serão ignoradas se não for instalado nenhum Web Viewer Plug-in.
4. Quando é instalada a versão antiga de Web Viewer Plug-in, é exibida uma janela de aviso que diz que a versão antiga será excluída.
Clique em **[Yes]** quando é exibida a janela de aviso.
5. Clique em **[OK]**.
A versão antiga de Web Viewer Plug-in está excluída.
6. Clique em **[Install]** para iniciar a instalação do Web Viewer Plug-in.
7. Clique em **[Finish]**.
A instalação do Plug-in Web Viewer está concluída.
 - ! No seu Internet Explorer, se você precisar passar para a tela de instalação depois de instalar o Plug-in do visualizador Web, verifique se o webviewer_activeplugin_lib.control no menu "Ferramenta → Gerenciamento adicional de função" está "ativado". Se não, e se houver um problema persistente, selecione "Ferramentas → Opções de Internet → Geral" e exclua todos os registros de pesquisa.
Se o problema persistir, por favor, registre o IP ou Domínio da sua câmera em "Ferramentas → Opções de Internet → Segurança → Sites confiáveis".

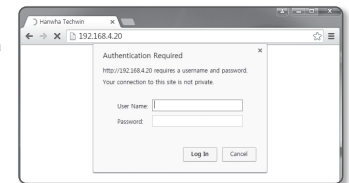
USANDO UM VISUALIZADOR WEB COM PLUG-IN GRATUITO

Apesar de não ser possível instalar plug-ins separadamente, se você acessar à câmera a partir do navegador Google Chrome, Mozilla Firefox ou MS Edge, você pode visualizar e controlar o vídeo da câmera sem instalar plug-ins.

1. Insira o seu nome de usuário e senha para se conectar.
2. Quando estiver conectado aparece uma tela de vista de câmera em direto.

Para definir a câmera

1. Clique no ícone **[Configuração (⚙)]**.
2. A janela de Configurações é exibida.
3. É possível gerenciar as configurações da informação básica da câmera, PTZ, vídeo e áudio, rede, evento, análise, sistema e abrir plataforma 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.	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.
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 pode controlar o sistema.	- Verifique a energia. Confirme se a energia está ligada. - Verifique se o cabo de comunicação está conectado.
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. - Se a câmera estiver conectada por uma rede PPPoE, o visualizador poderá ser desconectado sob condições precárias da rede.
Não consigo me conectar ao sistema usando o navegador com guias do Internet Explorer 7.0.	Um erro pode ser gerado quando conectar com uma nova janela ou aba já que os dados dos cookies são compartilhados. Não use uma nova janela ou aba, selecione "Arquivo → Nova sessão".
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.

PROBLEMA	SOLUÇÃO
A voz não é gravada mesmo que as configurações de entrada de áudio estejam definidas.	Você deve ativar a caixa de seleção <Entrada áudio> em <Basic> - <Perfil de vídeo>.
O <MD/VA> do <Event> 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 <MD / VA> deve ser configurada para <Ativar>. C. Verifique se a opção de <E-mail> do menu de <Configuração de evento> está marcada como Usar.
Nenhum sinal é encontrado na porta de saída de alarme mesmo quando um evento de análise inteligente de vídeo é gerado.	Verifique as configurações da porta de saída de alarme.
Não é possível gravar no cartão de memória Micro SD.	Verifique se o cartão de memória está defeituoso.
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 <Setup> → <Event> → <Gravar>.
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 3.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-3.1.0	GPL 2.0	
alsa-utils-1.0.24.2	GPL 2.0	
alsa-lib-1.0.24.1	GPL 2.0	
iptables-1.4.12.2	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-3.2	GPL 2.0	
mt-d-1.4.1	GPL 2.0	ftp://ftp.infradead.org/pub/mt-d-utils
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.10	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-0.7.3	GPL 2.0	
bash-4.2	GPL 3.0	
zeroconf	GPL 2.0	

LGPL SW

Component Name	License	URL
glibc	LGPL 2.0	
inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/
	(The Manual and test suite are GPL)	

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

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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
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revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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 2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.
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1. The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.
2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.
- 2.** Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
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 3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.
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Julian Seward, jseward@bzip.org

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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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