

WISeNet

GRAVADOR DE VÍDEO EM REDE

Manual de especificações do produto

XRN-410S/810S

QRN-410/810

QRN-410S/810S/1610S



Gravador de vídeo em rede

Manual de especificações do produto

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- ❖ Design e especificações estão sujeitos a alterações sem aviso prévio.
Você pode baixar a última versão no site da Hanwha Techwin. (www.hanwha-security.com)
- ❖ O ID inicial de administrador é “admin” e a senha deverá ser definida ao fazer o logon pela primeira vez.
A senha padrão pode ser exposta a uma ameaça de hackers, portanto é recomendado alterá-la após a instalação do produto.
Observe que a segurança e outras questões relacionadas causadas por uma senha inalterada devem ser de responsabilidade do usuário.

INSTRUÇÕES IMPORTANTES DE SEGURANÇA

Leia atentamente todas as instruções de operação antes de utilizar esta unidade. Siga todas as instruções de segurança listadas abaixo. Mantenha-as acessíveis para referência futura.

- 1) Leia estas instruções.
- 2) Guarde estas instruções.
- 3) Preste atenção a todos os avisos.
- 4) Siga todas as instruções.
- 5) Não use este aparelho perto de 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. Siga as instruções de instalação do fabricante.
- 8) Não instale perto de nenhuma fonte de calor, tal como radiadores, registros de aquecimento, ou outros aparelhos (incluindo amplificadores) que produzem calor.
- 9) Não anule a segurança do plugue polarizado ou do tipo terra. O plugue polarizado possui dois pinos, um mais largo que o outro. O plugue do tipo terra possui dois pinos e uma ponta de ligação à terra. O pino mais largo ou a terceira ponta são fornecidos para sua segurança. Se o plugue fornecido não se encaixar na sua tomada, consulte um eletricitista para trocar a saída obsoleta.
- 10) Evite que o cabo de alimentação seja pisado ou amassado, em especial nos plugues, receptáculos de conveniência e na parte onde eles saem do aparelho.
- 11) Use somente os 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) Para manutenção recorra sempre a uma assistência técnica. A manutenção será necessária quando o aparelho for danificado, por exemplo, quando o cabo de alimentação ou o plugue estiverem danificados, cair líquido ou algum objeto dentro do aparelho, se for exposto à chuva ou umidade, não funcionar normalmente ou sofrer uma queda.



ANTES DE INICIAR

Este manual fornece as informações operacionais necessárias para usar o produto e contém uma descrição de cada peça componente e sua função, além de um menu ou as configurações da rede. Tenha em mente os seguintes itens :

- A Hanwha Techwin é a detentora dos direitos autorais deste manual.
- Este Manual do Usuário não pode ser copiado sem o consentimento prévio por escrito da Hanwha Techwin.
- A Hanwha Techwin não se responsabiliza por quaisquer ou perda total do produto em decorrência do uso de produtos não padronizados ou violação do Manual do Usuário.
- Se você desejar abrir o gabinete do sistema para tocar na parte interna, por favor, consulte um técnico especializado.
- Antes de adicionar um disco rígido ou unidade de armazenamento externo (memória USB ou HDD USB, etc.), verifique se é compatível com este produto. Entre em contato com o revendedor para obter a lista de compatibilidade.

Advertência

Bateria

Troca por uma bateria inadequada na sua unidade pode causar uma explosão. Portanto você deve utilizar o mesmo tipo de bateria daquele fornecido com o produto.

O que segue são as especificações da bateria que você está utilizando agora.

- Tensão normal : 3V
- Capacidade normal : 120mAh
- Carga padrão contínua : 0,4mA
- Temperatura de Operação : -20 °C ~ +60 °C (-4 °F ~ +140 °F)

Cuidado

- Conecte o cabo de alimentação a uma tomada com aterramento.
- O plugue da fonte de alimentação é utilizado como um dispositivo de desconexão e deve estar prontamente acessível a qualquer momento.
- As baterias não devem ser expostas a calor excessivo, como luz do sol, fogo ou coisas semelhantes.
- Há risco de explosão se a bateria for substituída por outra incorreta. Descarte as baterias usadas de acordo com as instruções.
- Quando o HDD atinge o final de sua vida útil, os dados de vídeo armazenados poderão ser danificados e impossíveis de recuperar.
- O LED de status do HDD na frente do sistema pisca continuamente para indicar que a ligação do sistema ao HDD está normal. Confira o status do HDD regularmente para ver se ele pisca continuamente. A gravação poderá não ser possível quando ocorre uma falha do HDD. Confira periodicamente o status da gravação e faça o backup de dados importantes regularmente.

Desligamento do Sistema

O desligamento da alimentação enquanto a unidade está em operação ou execução de ações não permitidas poderá causar danos ao disco rígido ou à unidade.

Pressione <OK> na janela pop-up de encerramento do sistema e remova o cabo de alimentação para garantir um desligamento seguro.

Você poderá desejar instalar um sistema UPS para operação segura para prevenir danos causados por uma interrupção inesperada da energia. (Para quaisquer dúvidas relativas ao UPS, consulte a Assistência Técnica Autorizada).



- Se for desligado de modo anormal, o reinício pode levar mais tempo para restaurar os dados do disco rígido para a operação adequada.

Temperatura de Operação

A faixa de temperatura de operação assegurada desta unidade é 0°C ~ 40°C (32°F ~ 104°F). Esta unidade poderá não operar adequadamente se você ligá-la após um longo período de tempo de armazenamento sob temperaturas abaixo da faixa estabelecida. Quando utilizar o dispositivo após um longo período de armazenamento sob baixa temperatura, deixe a unidade em temperatura ambiente durante alguns instantes e ligue-a em seguida. Especialmente para o Disco Rígido interno na unidade, a faixa de temperatura assegurada é de 5°C ~ 55°C (41°F ~ 131°F). De outra forma o disco rígido poderá não operar a uma temperatura abaixo desta faixa.

Porta Ethernet

Este equipamento serve para uso em ambientes internos e toda a fiação de comunicação está limitada para o interior do edifício.

Precauções de segurança

O ID inicial de administrador é “admin” e a senha deverá ser definida ao fazer o login pela primeira vez. A senha padrão pode ser exposta a uma ameaça de hackers, portanto, recomenda-se alterar a senha após a instalação do produto. Observe que a segurança e outras questões relacionadas a isso, causadas pela senha não alterada podem ser de responsabilidade do usuário.

Produtos NVR para cada recurso

Função	Produtos
Ventoinha	QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S
PoE	QRN-1610S, XRN-810S, QRN-810S, XRN-410S, QRN-410S
P2P	QRN-1610S, XRN-810S, QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S
Controle remoto	QRN-1610S, XRN-810S, QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S Os modelos QRN-410/QRN-410S e XRN-410S podem não suportar o controle remoto dependendo na região de vendas.

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CARACTERÍSTICAS

O produto grava vídeo e áudio das câmeras de rede em um disco rígido, e permite a reprodução a partir desse disco. Ele também fornece um ambiente de monitoramento remoto para o vídeo e áudio via rede, usando um computador remoto.

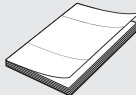
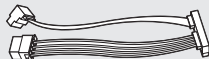
- Interface amigável ao usuário
- Suporta uma variedade de resoluções de câmera 4K
- Outputs a 4K high definition image using HDMI
- Grava e reproduz vídeo
- Grava e reproduz áudio
- Suporte ao padrão ONVIF Profile S e aos protocolos RTP / RTSP
- Exibir o status de operação HDD por HDD SMART
- Sobregravação em HDD ativada
- Backup usando protocolos USB 2.0, 3.0 e HDD externo
- Reprodução simultânea de 4, 8 canais
- Diversos Modos de Pesquisa (Tempo, Evento, Smart, Texto, Cópia de segurança, ARB)
- Suporte ARB (recurso de configuração para salvar período por canal)
- Diversos Modos de Gravação (Normal, Evento e Gravação Programada)
- Entrada/Saída de alarme
- Função de Monitoração Remoto pelo Windows Network Viewer
- Monitoração ao vivo da câmera de rede
- Funcao de Assistente de Instalacao (Configuracao Facil, Conf Rapid)
- Suporta o recurso de monitoramento remoto de smartphones através do apoio P2P
- Fornece alarme de evento de smartphone (envio de mensagens de evento em tempo real)

Conteúdo da embalagem

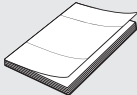
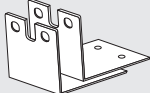
Desembale o produto e coloque-o sobre uma superfície plana ou no local onde será instalado. Verifique se o conteúdo a seguir está incluso além da unidade principal.

- A quantidade e a categoria dos acessórios podem ser diferentes dependendo da região de vendas.

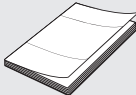
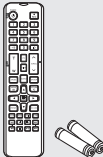
XRN-410S/QRN-410/QRN-410S

		
NVR	Mouse	Cabo de alimentação
		
Transformador	Manual rápido	Bloco terminal (N/A em QRN-410S)
		
Parafuso de fixação do HDD (Para modelos que não têm disco rígido instalado)	Cabo de alimentação SATA (Para modelos que não têm disco rígido instalado)	

XRN-810S/QRN-1610S

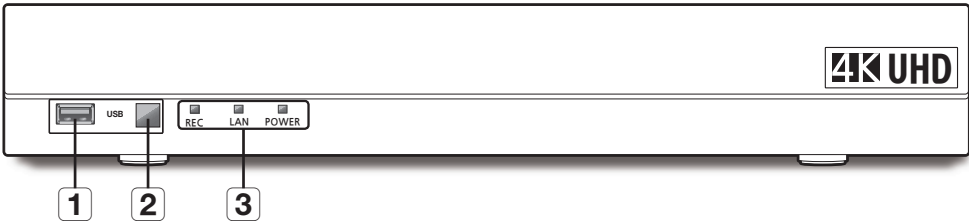
		
NVR	Mouse	Cabo de alimentação
		
Manual rápido	Bloco terminal	Controle remoto / Pilha do controle remoto (AAA)
		
Raque de suporte	Parafuso de fixação da braçadeira	

QRN-810/QRN-810S

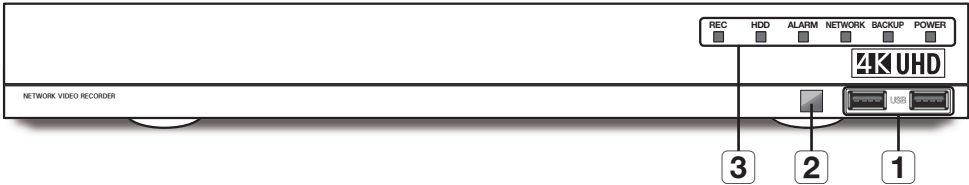
		
NVR	Mouse	Cabo de alimentação
		
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Controle remoto / Pilha do controle remoto (AAA)	Parafuso de fixação do HDD (Para modelos que não têm disco rígido instalado)	Cabo de alimentação SATA (Para modelos que não têm disco rígido instalado)

FUNÇÕES E NOMES DAS PEÇAS (FRONTAL)

XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S



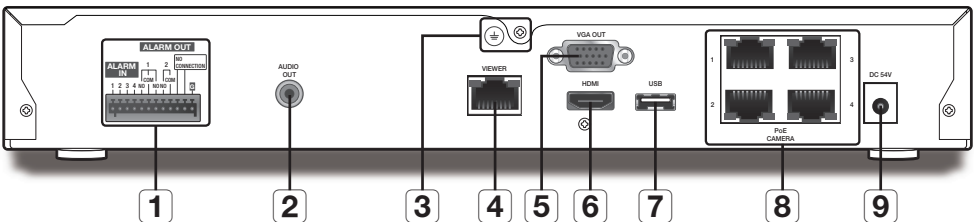
XRN-810S/QRN-1610S



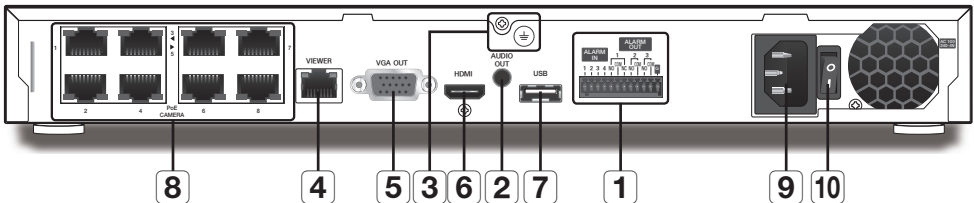
Nomes das peças		Funções
1	USB	Conecta os dispositivos USB. (Suporta USB 2.0)
2	Sistema de Recepção Remoto	Recebe o sinal do controlo remoto.
3	Indicador LED	REC : Acende quando a gravação está em andamento.
		HDD : Exibe o acesso normal ao HDD. O LED se acenderá quando o disco rígido for acessado. (XRN-810S/QRN-1610S)
		ALARM : Acende quando ocorre um evento. (XRN-810S/QRN-1610S)
		NETWORK (LAN) : Exibe a conexão de rede e o status de transferência de dados.
		BACKUP : Permanece ON quando a cópia de segurança está em operação. (XRN-810S/QRN-1610S)
		POWER : Exibe o status de LIG/DESL.

FUNÇÕES E NOMES DAS PEÇAS (TRASEIRO)

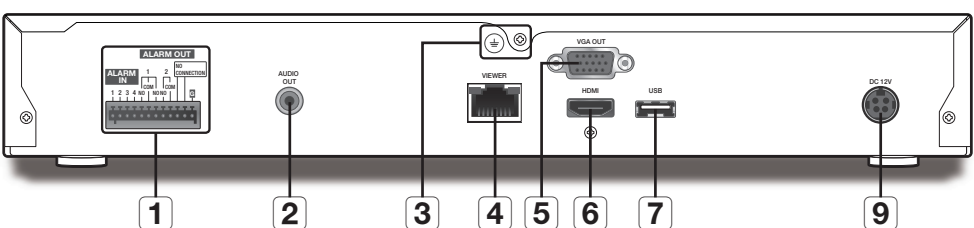
XRN-410S



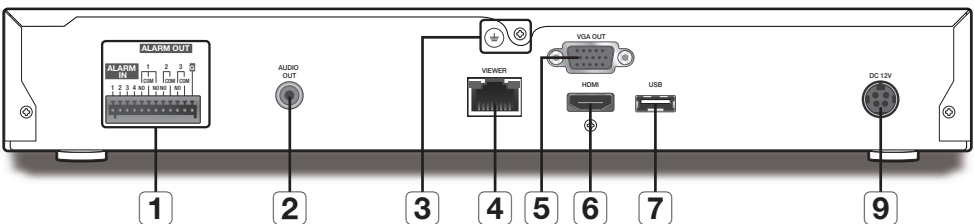
XRN-810S



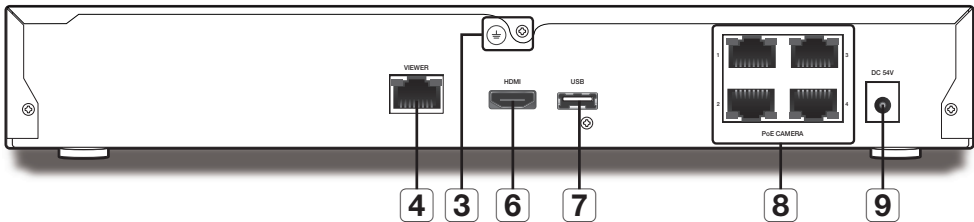
QRN-410



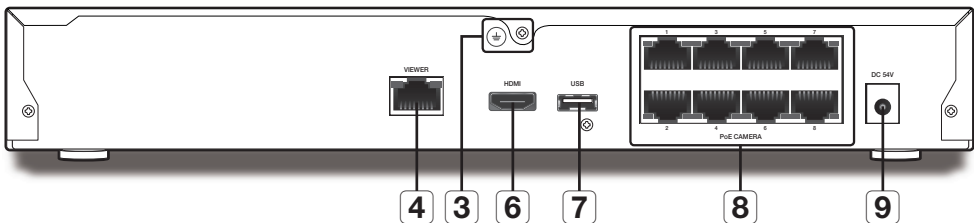
QRN-810



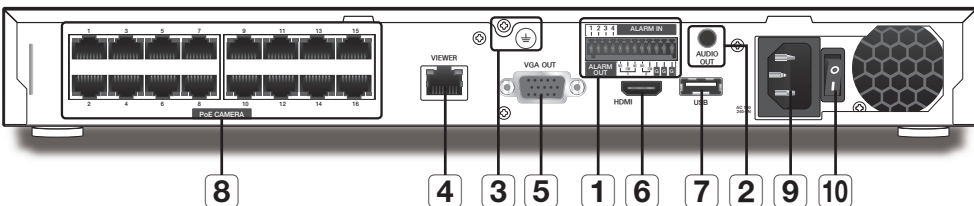
QRN-410S



QRN-810S



QRN-1610S



Nomes das peças		Funções
1	ALARM	- ALARM IN : Portas de entrada de alarme. (1~4 CH) - ALARM OUT : Portas de saída de alarme. XRN-410S/QRN-410/QRN-1610S : 1~2 CH XRN-810S/QRN-810 : 1~3 CH
2	AUDIO OUT	Porta de saída do sinal de áudio (tomada RCA).
3	Ground connection	Terminal para conectar um cabo com tomada de terra em separado. ■ Acrescentar um cabo com tomada de terra para apoiar a utilização segura do dispositivo.
4	VIEWER	Porta recomendada para conexão com uma rede, visualizador web.
5	VGA OUT	Porta de saída do sinal de vídeo VGA.
6	HDMI	Porta do conector HDMI.
7	USB	Conecta os dispositivos USB. (Suporta USB 3.0)
8	PoE (CAMERA)	Porta de abastecimento de energia para se conectar a uma câmera.
9	Alimentação	Terminal para conectar à corrente.
10	Interruptor de Alimentação	Interruptor de energia Lig/Desl.

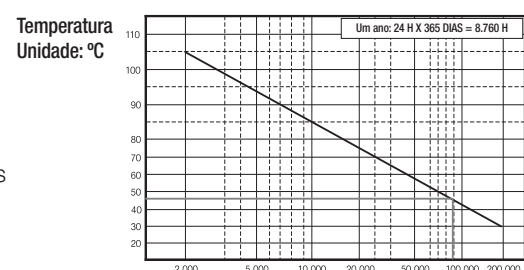
Observe o seguinte antes de utilizar o produto.

- Não utilize o produto em ambientes externos.
- Não deixe que água ou qualquer líquido seja derramado sobre o produto.
- Não submeta o sistema a impactos ou força excessiva.
- Não remova o plugue de alimentação com força.
- Não desmonte o produto.
- Não exceda a faixa nominal de entrada/saída.
- Utilize um cabo de alimentação certificado.
- Para o produto com um terra de entrada, utilize um plugue de alimentação aterrado.

VERIFICANDO O AMBIENTE DE INSTALAÇÃO

Este produto é um dispositivo de segurança excepcional, equipado com um HDD de alta capacidade e outras placas de circuitos principais.

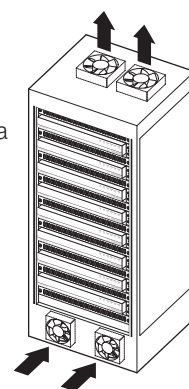
Observe que uma temperatura interna excessiva do produto podem causar uma falha do sistema ou uma menor vida útil do produto (consulte a figura à direita). Lembre-se de seguir as instruções antes de instalar o produto.



Vida útil (unidade: HORAS)
[Figura 1]

Ao montar um produto em um rack, siga as instruções abaixo.

1. Assegure-se de que o rack interno não esteja selado.
2. Verifique se o ar está circulando através da entrada/saída como mostrado na imagem.
3. Se você empilhar os produtos ou outros dispositivos montados em rack como mostra a Figura 2, permita espaço para a ventilação ou instale um suspiro.
4. Para uma convecção de ar natural, posicione a entrada na parte inferior do rack e a saída na parte superior.
5. Recomenda-se rigorosamente que um motor de ventilação seja instalado na entrada e na saída para circulação de ar. (Encaixe um filtro na entrada para filtrar a poeira ou substâncias estranhas.)
6. Mantenha a temperatura dentro do rack ou das áreas ao redor entre 0°C ~ 40°C (32°F ~ 104°F) como mostrado na figura 1.

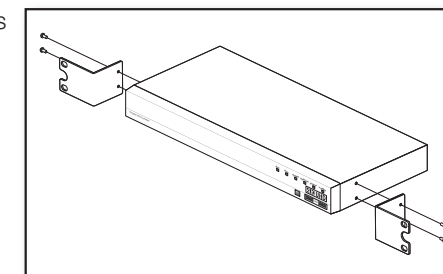


[Figura 2]

INSTALAÇÃO DE RACK

Instale o suporte e rack como mostrado na figura e, depois, aperte os parafusos dos dois lados.

- Fixe os parafusos para que não fiquem frouxos devido a vibrações.



<XRN-810S/QRN-1610S>

ACRÉSCIMO DE HDD

Certifique-se de desconectar o cabo de alimentação da tomada da parede para impedir possíveis choques elétricos, ferimentos ou danos ao produto.

Consulte o fornecedor para obter informações adicionais sobre a instalação do HDD, uma vez que a instalação ou configurações inadequadas podem danificar o produto.

- Número de HDDs suportados : XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S : Max. 1
XRN-810S/QRN-1610S : Max. 2
- Certifique-se de desconectar o cabo de alimentação da tomada da parede para impedir possíveis choques elétricos, ferimentos ou danos ao produto.



■ Cuidados quanto à perda de dados (cuidados com o HDD)

Preste atenção para que os dados dentro do HDD não sejam danificados.

Antes de adicionar um HDD, verifique a compatibilidade com este produto.

O HDD é vulnerável ao mau funcionamento devido à sua natureza sensível, especialmente contra choques durante o funcionamento.

Assegure-se de que o HDD esteja protegido desses choques.

Nós não somos responsáveis por quaisquer danos ao HDD incorrido por descuidos ou abusos.

■ A caixa externa pode causar danos ao HDD ou aos dados gravados

Para minimizar o risco de perda de dados de um HDD danificado, faça o backup dos dados o mais frequentemente possível.

Se exposto ao choque ao desmontar ou instalar, os dados armazenados no disco rígido podem ser danificados.

Uma falha de energia repentina ou o desligamento do produto durante a operação do HDD pode danificar o disco rígido.

O HDD ou arquivos armazenados internamente podem ser danificados se o corpo principal for movido ou impactado durante a operação do HDD.

Cuidados ao instalar um disco rígido

1. Não aplique força excessiva ao HDD.
2. Preste atenção para não afrouxar os parafusos ou acessórios de desmontagem.
 - Se os parafusos ou acessórios não forem montados corretamente, o produto pode apresentar mau funcionamento ou não funcionar adequadamente.
3. Verifique a compatibilidade do HDD antes de adicionar um HDD.
 - Contate seu representante mais próximo para obter a lista dos dispositivos compatíveis.

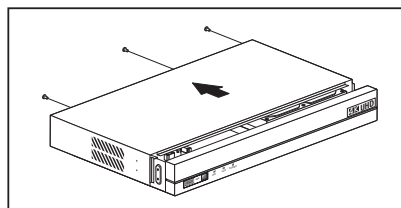
Instalando o HDD

- ! ■ Se você estiver adicionando um HDD novo ou usado anteriormente para este produto, além dos HDD(s) instalados originalmente, formate o novo HDD manualmente no conjunto antes de usar.
Para aprender a formatar, consulte "Dispositivo/Formato" no Manual do usuário do Wisenet NVR.

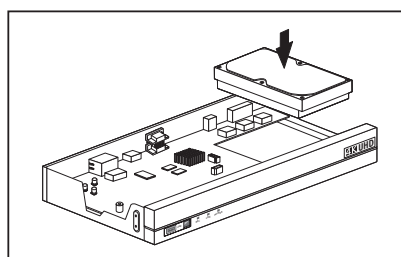
Como instalar um disco rígido no modelo XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S

- As figuras a seguir estão baseadas no Modelo XRN-410S.

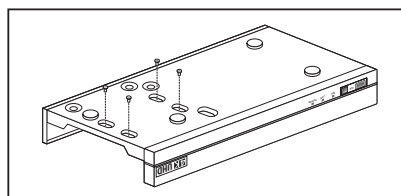
1. Depois de desaparafusar, empurre para trás e remova a tampa.



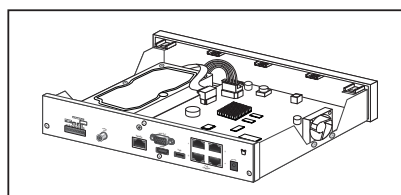
2. Conecte o SATA/cabos de alimentação do disco rígido aos conectores da placa-mãe.



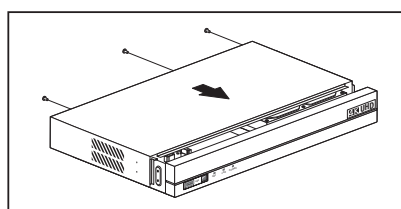
3. Usando os parafusos, fixe o disco rígido ao fundo do conjunto.



4. Verifique se há problemas no terminal de conexão e na fiação do produto, feche a tampa e fixe-a com os parafusos.



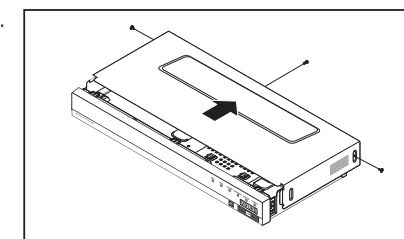
5. Feche a tampa, e aperte o parafuso de fixação na parte de trás.



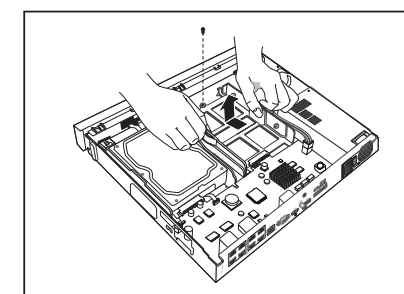
Como instalar um disco rígido no modelo XRN-810S/QRN-1610S

- As figuras a seguir estão baseadas no Modelo XRN-810S.

1. Depois de desaparafusar, empurre para trás e remova a tampa.

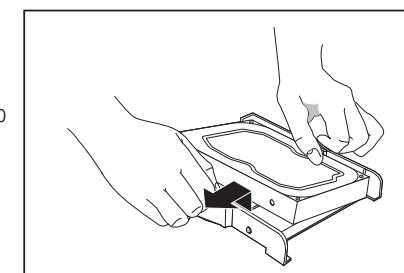


2. Separe-os desapertando o parafuso do suporte fixo e empurre-o na direção da seta na placa.

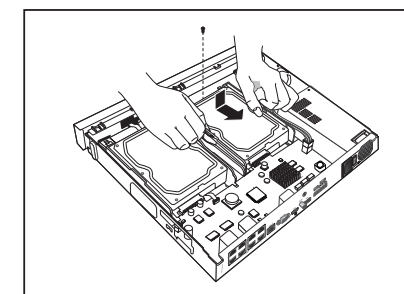


3. Depois de alinhar e inserir um lado do disco rígido no suporte, abra completamente o suporte do outro lado e insira o disco rígido entre eles.

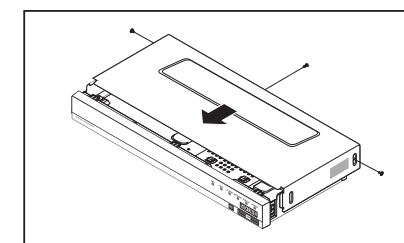
- Alinhe um orifício no suporte com o orifício de um parafuso no disco rígido para o fixar.



4. Empurre o suporte com o disco rígido instalado e aperte os parafusos para o fixar.

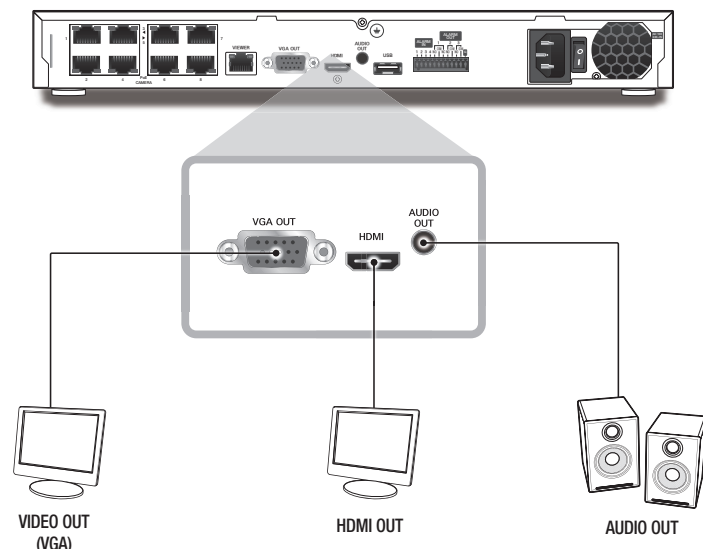


5. Feche a tampa e aperte os parafusos para a fixar.



CONEXÃO A UM DISPOSITIVO EXTERNO

- As figuras a seguir estão baseadas no Modelo XRN-810S.



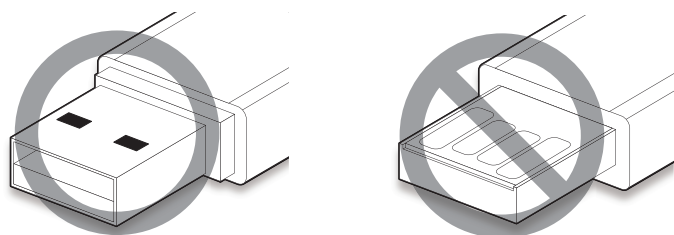
- Uma fonte de alimentação não classificada ou imprópria pode causar danos ao sistema. Assegure-se de usar somente a fonte de alimentação classificada antes de pressionar o botão POWER.

CONECTANDO O USB

- Existe uma porta USB na parte frontal do produto.
- Você pode conectar um USB HDD, memória USB ou mouse à porta USB.
- Se o seu HDD USB estiver conectado ao sistema, ele pode ser detectado e configurado com os seguintes passos em "Menu > Disposit. > Dispositivo de armazenamento" do Manual do usuário do Wisenet NVR.
- O produto suporta a função de hot plugging, que permite conectar/desconectar dispositivos USB durante a operação do sistema.

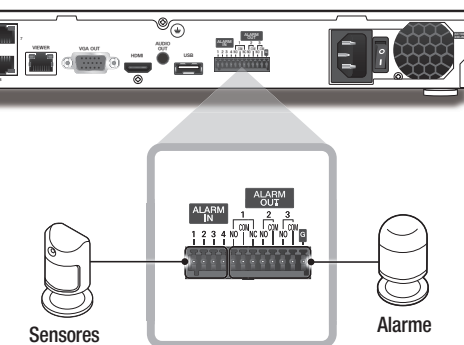


- Se você usar o dispositivo USB para fins de backup, formate-o com FAT32 no PC se ele não estiver formatado no NVR.
- Alguns dispositivos USB podem falhar devido a problemas de compatibilidade. Verifique o dispositivo antes do uso.
- Somente dispositivos de armazenamento USB que estão em conformidade com o padrão (com cobertura de metal) são garantidos para transferência de dados.
- Em caso de desgaste dos contatos do dispositivo USB, a transferência de dados entre os dispositivos poderá não funcionar.

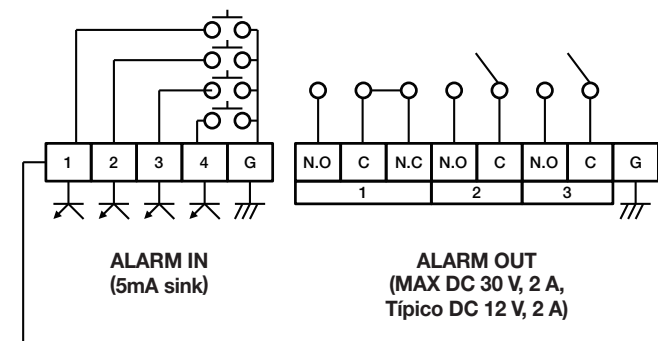


CONECTANDO A SAÍDA/ENTRADA DE ALARME

A porta de entrada/saída de alarme na parte de trás é composta do seguinte.



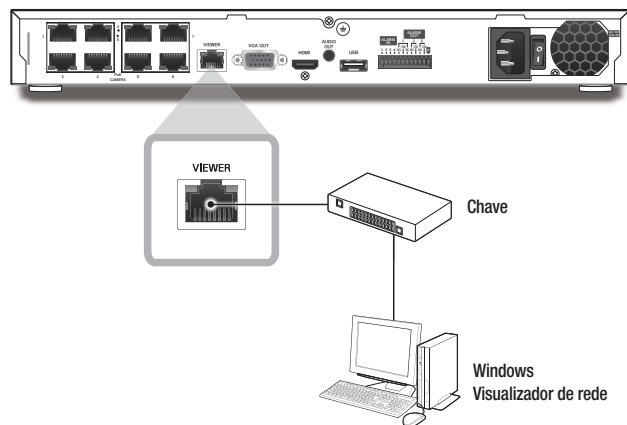
- ALARM IN 1 ~ 4 : Porta de entrada de alarme
- ALARM OUT 1 ~ 3 : Porta de saída de alarme



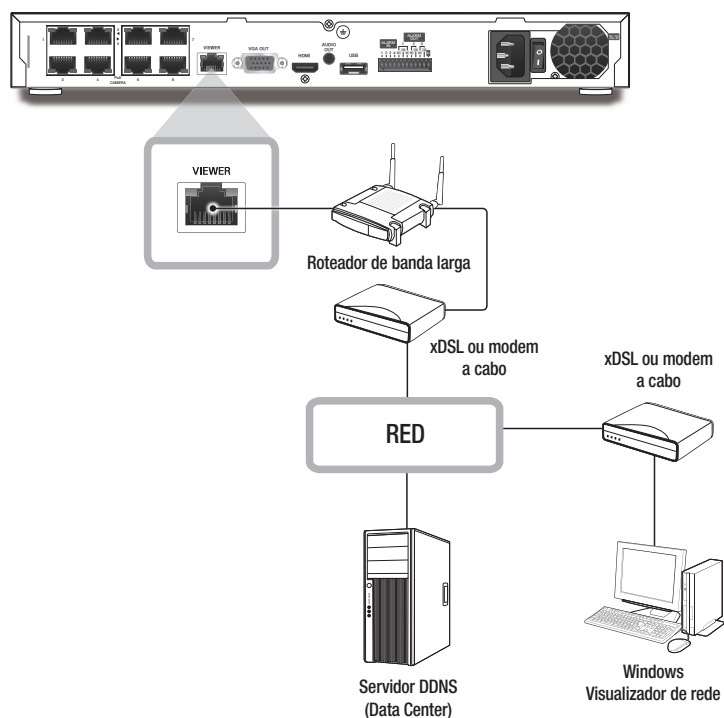
CONECTANDO A REDE

- Para mais informações sobre a conexão de rede, consulte “Configuração de rede” no Manual do usuário do Wisenet NVR.
- As figuras a seguir estão baseadas no Modelo XRN-810S.

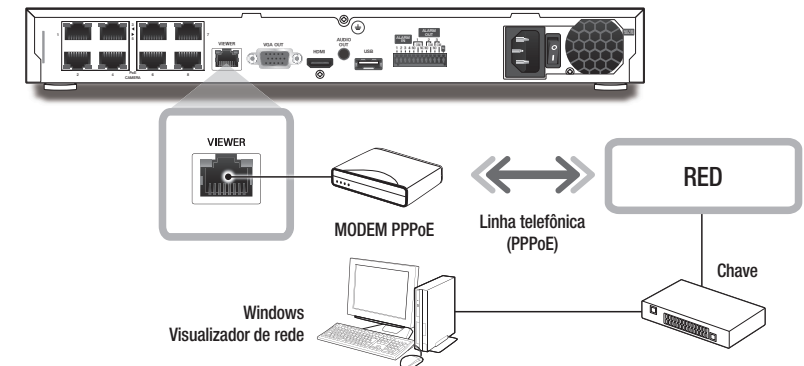
Conexão de rede via Ethernet (10/100/1000BaseT)



Conexão de rede via roteador

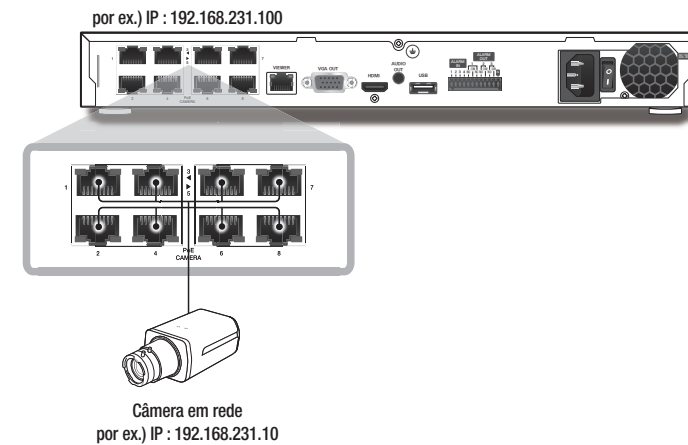


Conectar à Internet através de PPPoE

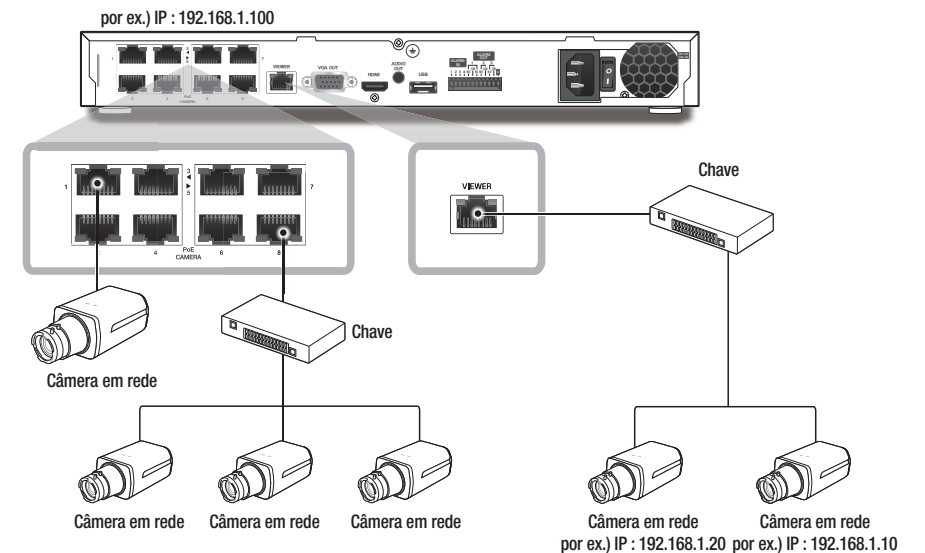


Conectando a câmera de rede

Exemplo 1)



Exemplo 2)



• XRN-410S/XRN-810S

Item		Detalhes	
		XRN-410S	XRN-810S
Modelo			
Câmera em rede	Entradas	Máx. 4 canais	Máx. 8 canais
	Resolução	CIF ~ 8MP	
	Protocolos	Wisenet, ONVIF	
Ao vivo	Visor local	1x HDMI(HDMI 1.4) / 1x VGA	
	Desempenho	[Monitor Local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - Mas para MJPEG, é permitido até 2 MP.	
Desempenho			
Sistema Operativo	Incorporado	Linux	
Gravar	Compressão	H.265, H.264, MJPEG (Pode decodificar até 2M.)	
	Largura de banda de Gravação	Máximo de 50Mbps	Máximo de 100Mbps
	Resolução	CIF ~ 8MP	
Pesquisar e Reproduzir	Largura de Banda de Reprodução	32Mbps(4 canais em simultâneo)	32Mbps(8 canais em simultâneo)
	Desempenho	Máx. 3 usuários (1 Local, 3 remoto)	
	Reprodução simultânea	Máx. 4 canais (Local, Rede)	Máx. 8 canais (Local, Rede)
	Resolução	CIF ~ 8MP	
	Controle de reprodução	Avanço rápido/lento para a frente/para trás, mover um passo para cima/ mover um passo para baixo	
Armazenamento	Incorporado	0TB ~ 6TB (dependent on region) - Seagate : ~ 4TB	
	HDD Interna	1 (Máx. 6TB)	2 (Máx. 12TB)

Item		Detalhes	
		XRN-410S	XRN-810S
Cópia de Segurança	Backup de arquivo	BU/Exe(USB), JPG/AVI(Web, CMS)	
	Função	Reprodução multicanal (até 4CH), Data-Hora/Exibir Título	Reprodução multicanal (até 8CH), Data-Hora/Exibir Título
Sensor	E/S	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
Áudio	Entrada	4 canais (rede)	8 canais (rede)
	Compressão	G.711, G.726, AAC(16/48KHz)	
	Comunicação de Áudio	2 Vias	
Rede			
Protocolo		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Servidor, Cliente), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Servidor, Cliente)	
DDNS		Hanwha Security DDNS	
Largura de banda de transmissão		64Mbps	128Mbps
Máx. de usuários remotos		Pesquisa (3)/Unicast ao vivo (10)/Multicast (20)	
Versão IP		IPv4/v6	
Segurança		Registro de acesso de usuário, Filtragem de IP, 802 1x, Criptografia	
Idiomas		Inglês, Francês, Alemão, Italiano, Espanhol, Russo, Turco, Polonês, Holandês, Sueco, Checo, Português, Dinamarquês, Romeno, Sérvio, Croata, Húngaro, Grego, Norueguês, Coreano, Chinês, Japonês, Tailandês	
SO		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11	
Navegador Web		Plug-in de visualização web gratuito Navegador suportado: Google Chrome 47, MS Edge 20 Plug-in do Visualizador da web Navegador suportado: MS Explore 11 Apple Safari 9 * Mac OS apenas X	
Software Visualizador	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile	
	Suporte de SGC (Sistema de Gestão de Conteúdos)	SDK/CGI (SUNAPI)	

Item		Detalhes	
		XRN-410S	XRN-810S
Funções			
Controle da câmera	PoE	1) Monitorizar o consumo de energia PoE 2) Controle On/Off (ligar/desligar) para cada câmera PoE 3) Zerar remotamente para cada câmera PoE	
Configuração fácil		Assistente de Configuração (Data/Hora, Rede, Configuração Automática da Câmera) P2P (QR Code)	
Redundância	ARB	Sim	
PTZ	Controle	Via GUI, Visualizador Web, 300 Predefinir	
Smart Phone	Modelo de suporte	Android, iOS	
	Suporte de protocolos	RTP, RTSP, HTTP, CGI (SUNAPI)	
Smart Phone	Controle	Ao vivo (4ch) : Suporte multi-perfil Reprodução (1ch) Push de evento	Ao vivo (8ch) : Suporte multi-perfil Reprodução (1ch) Push de evento
Controle do Sistema		Mouse, Web, Remocon IR	
Indicador/Interface			
Frente	Indicador	LED (Indicador de estado) : 3EA LED 1EA de Estado de energia LED 1EA de Estado de alarme LED 1EA de Estado de Gravação	LED (Indicador de estado) : 6EA LED 1EA de Estado de energia LED 1EA de Ação HDD LED 1EA de Estado de alarme LED 1EA de Estado de Gravação LED 1EA de Ação de Rede LED 1EA de Status de BACKUP
Conectores	VGA	1EA	
	HDMI	1EA - Suporte até 4K (3840 x 2160), 30Hz	

Item		Detalhes	
		XRN-410S	XRN-810S
Conectores	Áudio	Saída (1EA, RCA, Linha)	
	Ethernet	■ 4EA (PoE/PoE+, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink a CMS	■ 8EA (PoE/PoE+, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink a CMS
	Alarme	Entrada(4EA, Borne) Saída(2EA, Borne)	Entrada(8EA, Borne) Saída(3EA, Borne)
	USB	2EA(Frente 1, Traseiro 1)	3EA(Frente 2, Traseiro 1)
	Armazenamento	-	
	Serial	-	
	Repor	Interruptor (1EA)	
	Cabo de Alimentação	Incluído	
Sistema			
Registro	Lista de registros	Máx. 20000 (cada Registro do Sistema, Registro de Evento)	
Ambiental			
Temperatura de Operação / Umidade		+0°C a +40°C (+32°F to +104°F)	
Umidade		20% ~ 85% RH	
Elétrica			
Entrada de alimentação		54V DC / 1.67A	100 a 240 VAC ±10%
Consumo de Energia		Máx.13W (44BTU, 2TB HDD x 1ea)	Máx.19W (64BTU, 2TB HDD x 1ea)
Orçamento PoE		Máx. 50W	Máx. 100W
Mecânica			
Cor / Material		Preto / Metalizado	
Dimensões (LxAxP)		L300 x A47 x P208.7mm (11.81”X1.85”X8.22”) (1U)	L370 x A44 x P320mm (14.57”X1.73”X12.6”) (1U)
Peso		1.694Kg(2T HDD)	3.356kg(2T HDD)

• QRN-410/QRN-810

Item		Detalhes	
		QRN-410	QRN-810
Modelo			
Câmera em rede	Entradas	Máx. 4 canais	Máx. 8 canais
	Resolução	CIF ~ 8MP	
	Protocolos	Wisenet, ONVIF	
Ao vivo	Visor local	1x HDMI(HDMI 1.4) / 1x VGA	
	Desempenho	[Monitor Local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - Mas para MJPEG, é permitido até 2 MP.	
Desempenho			
Sistema Operativo	Incorporado	Linux	
Gravar	Compressão	H.265, H.264, MJPEG (Pode decodificar até 2M.)	
	Largura de banda de Gravação	Máximo de 50Mbps	Máximo de 100Mbps
	Resolução	CIF ~ 8MP	
Pesquisar e Reproduzir	Largura de Banda de Reprodução	32Mbps(4 canais em simultâneo)	32Mbps(8 canais em simultâneo)
	Desempenho	Máx. 3 usuários (1 Local, 3 remoto)	
	Reprodução simultânea	Máx. 4 canais (Local, Rede)	Máx. 8 canais (Local, Rede)
	Resolução	CIF ~ 8MP	
	Controle de reprodução	Avanço rápido/lento para a frente/para trás, mover um passo para cima/ mover um passo para baixo	
Armazenamento	Incorporado	0TB ~ 6TB (dependent on region) - Seagate : ~ 4TB	
	HDD Interna	1 (Máx. 6TB)	

Item		Detalhes	
		QRN-410	QRN-810
Cópia de Segurança	Backup de arquivo	BU/Exe(USB), JPG/AVI(Web, CMS)	
	Função	Reprodução multicanal (até 4CH), Data-Hora/Exibir Título	Reprodução multicanal (até 8CH), Data-Hora/Exibir Título
Sensor	E/S	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
Áudio	Entrada	4 canais (rede)	8 canais (rede)
	Compressão	G.711, G.726, AAC(16/48KHz)	
	Comunicação de Áudio	2 Vias	
Rede			
Protocolo		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Servidor, Cliente), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Servidor, Cliente)	
DDNS		Hanwha Security DDNS	
Largura de banda de transmissão		64Mbps	128Mbps
Máx. de usuários remotos		Pesquisa (3)/Unicast ao vivo (10)/Multicast (20)	
Versão IP		IPv4/v6	
Segurança		Registro de acesso de usuário, Filtragem de IP, 802 1x, Criptografia	
Idiomas		Inglês, Francês, Alemão, Italiano, Espanhol, Russo, Turco, Polonês, Holandês, Sueco, Checo, Português, Dinamarquês, Romeno, Sérvio, Croata, Húngaro, Grego, Norueguês, Coreano, Chinês, Japonês, Tailandês	
SO		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11	
Navegador Web		Plug-in de visualização web gratuito Navegador suportado: Google Chrome 47, MS Edge 20 Plug-in do Visualizador da web Navegador suportado: MS Explore 11, Apple Safari 9 * Mac OS apenas X	
Software Visualizador	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile	
	Suporte de SGC (Sistema de Gestão de Conteúdos)	SDK/CGI (SUNAPI)	

Item		Detalhes	
		QRN-410	QRN-810
Funções			
Configuração fácil		Assistente de Configuração (Data/Hora, Rede, Configuração Automática da Câmera) P2P (QR Code)	
Redundância	ARB	Sim	
PTZ	Controle	Via GUI, Visualizador Web, 300 Predefinir	
Smart Phone	Modelo de suporte	Android, iOS	
	Suporte de protocolos	RTP, RTSP, HTTP, CGI (SUNAPI)	
Smart Phone	Controle	Ao vivo (4ch) : Suporte multi-perfil Reprodução (1ch) Push de evento	Ao vivo (8ch) : Suporte multi-perfil Reprodução (1ch) Push de evento
Controle do Sistema		Mouse, Web, Remocon IR	
Indicador/Interface			
Frente	Indicador	LED 1EA de Estado de energia LED 1EA de Estado de alarme LED 1EA de Estado de Gravação	
Conectores	VGA	1EA	
	HDMI	1EA - Suporte até 4K (3840 x 2160), 30Hz	
Conectores	Áudio	Saída (1EA, RCA, Linha)	
	Ethernet	1EA (WAN, 1Gbps) - WAN : Uplink a CMS	
	Alarme	Entrada(4EA, Borne) Saída(2EA, Borne)	Entrada(8EA, Borne) Saída(3EA, Borne)
	USB	Frente 1EA(USB2.0), Traseiro 1(USB3.0)	
	Armazenamento	-	
	Serial	-	
	Repor	Interruptor (1EA)	
Cabo de Alimentação	Incluído		

Item		Detalhes	
		QRN-410	QRN-810
Sistema			
Registro	Lista de registros	Máx. 20000 (cada Registro do Sistema, Registro de Evento)	
Ambiental			
Temperatura de Operação / Umidade		+0°C a +40°C (+32°F to +104°F)	
Umidade		20% ~ 85% RH	
Elétrica			
Entrada de alimentação		12V/4A	
Consumo de Energia		Máx. 9W (31BTU, 2TB HDD x 1ea)	
Mecânica			
Cor / Material		Preto / Metalizado	
Dimensões (LxAxP)		L300 x A47 x P208.7mm (11.81"X1.85"X8.22") (1U)	
Peso		1.655 Kg (1HDD)	

• QRN-410S/QRN-810S/QRN-1610S

Item		Detalhes		
		QRN-410S	QRN-810S	QRN-1610S
Modelo				
Câmera em rede	Entradas	Máx. 4 canais	Máx. 8 canais	Máx. 16 canais
	Resolução	CIF ~ 8MP		
	Dewarp de olho de peixe	N/A (processo na Web/CMS)		
	Protocolos	Wisenet, ONVIF, RTSP		
Ao vivo	Visor local	1x HDMI		1x HDMI / 1x VGA
	Desempenho	[Monitor Local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(120fps), 720p(120fps), D1(120fps)	[Monitor Local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps)	[Monitor Local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(480fps), D1(480fps)
Desempenho				
Sistema Operativo	Incorporado	Linux		
Gravar	Compressão	H.265, H.264, MJPEG		
	Largura de banda de Gravação	Máximo de 40Mbps	Máximo de 80Mbps	Máximo de 128Mbps
	Resolução	CIF ~ 8MP		
Pesquisar e Reproduzir	Largura de Banda de Reprodução	32Mbps(4 canais em simultâneo)	32Mbps(8 canais em simultâneo)	
	Desempenho	Máx. 3 usuários (1 Local, 3 remoto)		
	Reprodução simultânea	Máx. 4 canais (Local, Rede)	Máx. 8 canais (Local, Rede)	Máx. 8 canais(Local), Máx. 16 canais(Rede)
	Resolução	CIF ~ 8MP		
	Dewarp de olho de peixe	N/A (processo na Web/CMS)		
	Controle de reprodução	Avanço rápido/lento para a frente/para trás, mover um passo para cima/mover um passo para baixo		
Armazenamento	Incorporado	N/A		
	HDD Interna	1 (Máx. 6TB)		2 (Máx. 12TB)

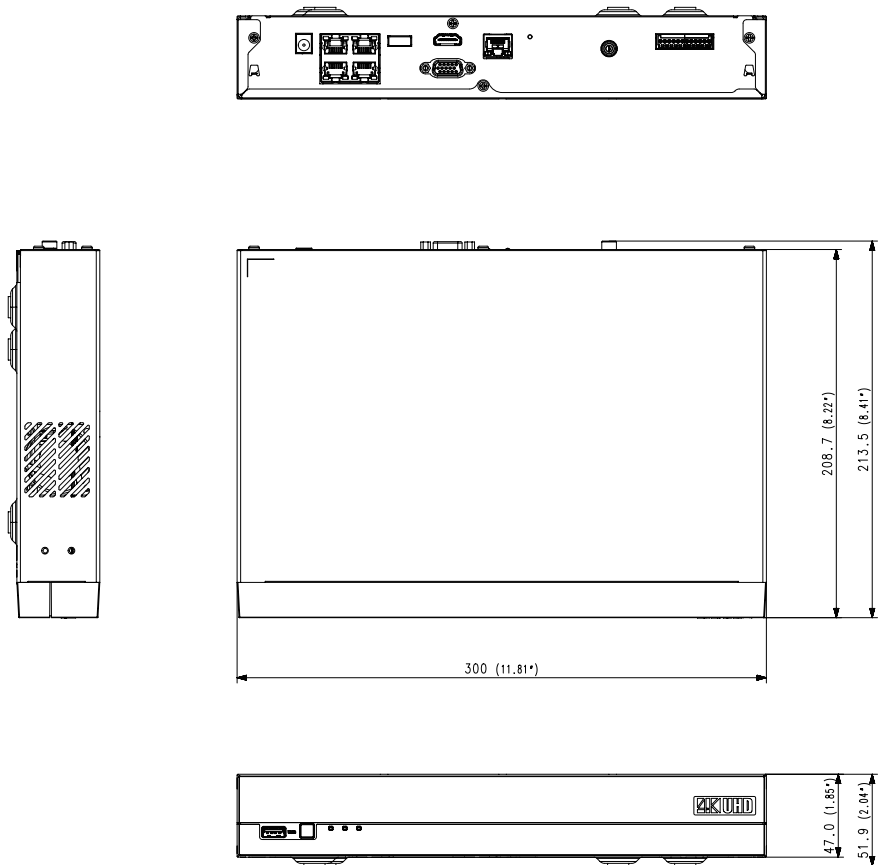
Item		Detalhes		
		QRN-410S	QRN-810S	QRN-1610S
Cópia de Segurança	Backup de arquivo	BU/Exe(USB), JPG/AVI(Web, CMS)		
	Função	Reprodução multicanal (até 4CH), Data-Hora/Exibir Título	Reprodução multicanal (até 8CH), Data-Hora/Exibir Título	
Sensor	E/S	N/A		4/2 (NO 1EA, NO/NC 1EA)
Áudio	Entrada	4 canais (rede)	8 canais (rede)	16 canais (rede)
	Compressão	G.711, G.726, AAC(16/48KHz)		
	Comunicação de Áudio	2 Vias		
Rede				
Protocolo		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Servidor, Cliente), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Servidor, Cliente)		
DDNS		Hanwha Security DDNS		
Largura de banda de transmissão		50Mbps	80Mbps	128Mbps
Máx. de usuários remotos		Pesquisa (3)/Unicast ao vivo (10)/Multicast (20)		
Versão IP		IPv4/v6		
Segurança		Registro de acesso de usuário, Filtragem de IP, 802 1x, Criptografia		
SO		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11		
Navegador Web		Plug-in de visualização web gratuito Navegador suportado: Google Chrome 47, MS Edge 20 Plug-in do Visualizador da web Navegador suportado: MS Explore 11 Apple Safari 9 * Mac OS apenas X		
Software Visualizador	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile		
	Suporte de SGC (Sistema de Gestão de Conteúdos)	SDK/CGI (SUNAPI)		
Funções				
Controle da câmera	PoE	1) Monitorizar o consumo de energia PoE 2) Controle On/Off (ligar/desligar) para cada câmera PoE 3) Zerar remotamente para cada câmera PoE		

Item		Detalhes		
		QRN-410S	QRN-810S	QRN-1610S
Configuração fácil		Assistente de Configuração (Data/Hora, Rede, Configuração Automática da Câmera) P2P (QR Code)		
ARB		Sim		
PTZ	Controle	Via GUI, Visualizador Web, 300 Predefinir		
Smart Phone	Modelo de suporte	Android, iOS		
	Suporte de protocolos	RTP, RTSP, HTTP, CGI (SUNAPI)		
	Controle	Ao vivo (4ch) : Suporte multi-perfil Reprodução (1ch) Push de evento	Ao vivo (8ch) : Suporte multi-perfil Reprodução (1ch) Push de evento	Ao vivo (16ch) : Suporte multi-perfil Reprodução (1ch) Push de evento
	Máx. de usuários remotos	Pesquisar(3) / Unicast ao vivo(10)/ Multicast ao vivo(20)		
Controle do Sistema		Mouse, Web	Mouse, Web, Com. Rem. IR	
Indicador/Interface				
Frente	Indicador	LED (Indicador de estado) : 3EA LED 1EA de Estado de energia LED 1EA de Estado de alarme LED 1EA de Estado de Gravação		LED (Indicador de estado) : 6EA LED 1EA de Estado de energia LED 1EA de Ação HDD LED 1EA de Estado de alarme LED 1EA de Estado de Gravação LED 1EA de Ação de Rede LED 1EA de Status de BACKUP
Conectores	VGA	N/A		1EA(1920x1080, 1280x1024, 1280x720, 1024x768)
	HDMI	1EA (3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720, 1024x768)		
	Áudio	N/A		Saída (1EA, RCA)
	Ethernet	■ 4EA (PoE, 100Mbps) ■ 1EA (WAN, 100Mbps) - WAN : Uplink a CMS	■ 8EA (PoE, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink a CMS	■ 16EA (PoE, 100Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Uplink a CMS

Item		Detalhes		
		QRN-410S	QRN-810S	QRN-1610S
Conectores	Alarme	N/A		Entrada(4EA, Borne) Saída(2EA, Borne)
	USB	Frente 1EA(USB2.0), Traseiro 1(USB3.0)		Frente 2EA(USB2.0), Traseiro 1(USB3.0)
	Repor	Interruptor (1EA)		
	Cabo de Alimentação	Incluído		
Sistema				
Registro	Lista de registros	Máx. 20000 (cada Registro do Sistema, Registro de Evento)		
Ambiental				
Temperatura de Operação / Umidade		+0°C a +40°C (+32°F to +104°F)		
Umidade		20% ~ 85% RH		
Elétrica				
Entrada de alimentação		54V DC / 1.20A	54V DC / 1.67A	100 a 240 VAC
Consumo de Energia		Máx. 47W(1HDD, PoE ligado) Máx. 7.4W(1HDD, PoE desligado)	Máx. 76.2W(1HDD, PoE ligado) Máx. 8.1W(1HDD, PoE desligado)	Máx. 158.2W(2HDDs, PoE ligado) Máx. 34.6W(2HDDs, PoE desligado)
Orçamento PoE		Máx. 30W	Máx. 50W	Máx. 130W
Mecânica				
Cor / Material		Preto / Metalizado		
Dimensões (LxAxP)		L300.0 x A47.1 x P208.4 mm(1U)		L370.0 x A44.0 x P320 mm(1U)
Peso		0.99Kg	1.01Kg	2.79Kg

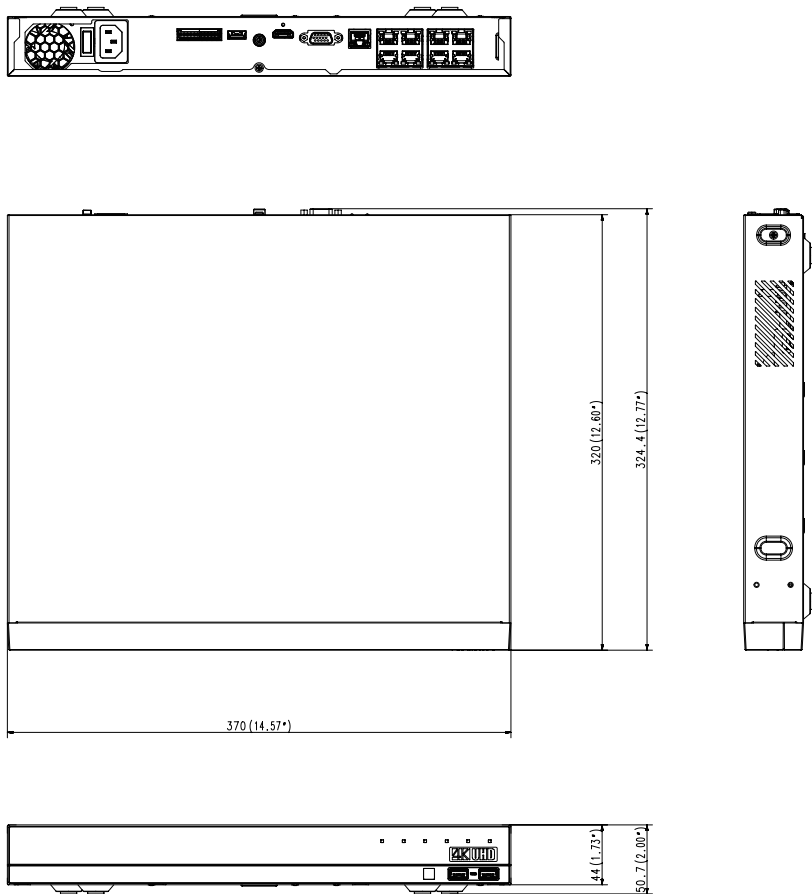
• XRN-410S

unidade : mm (polegadas)



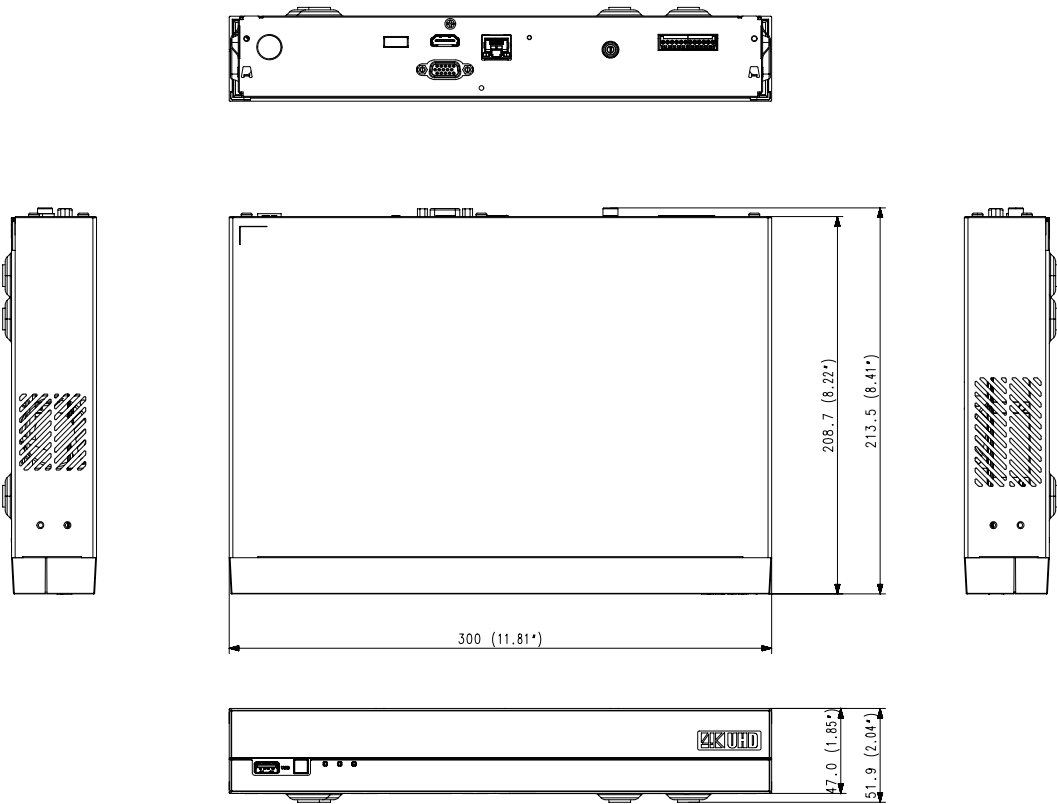
• XRN-810S

unidade : mm (polegadas)



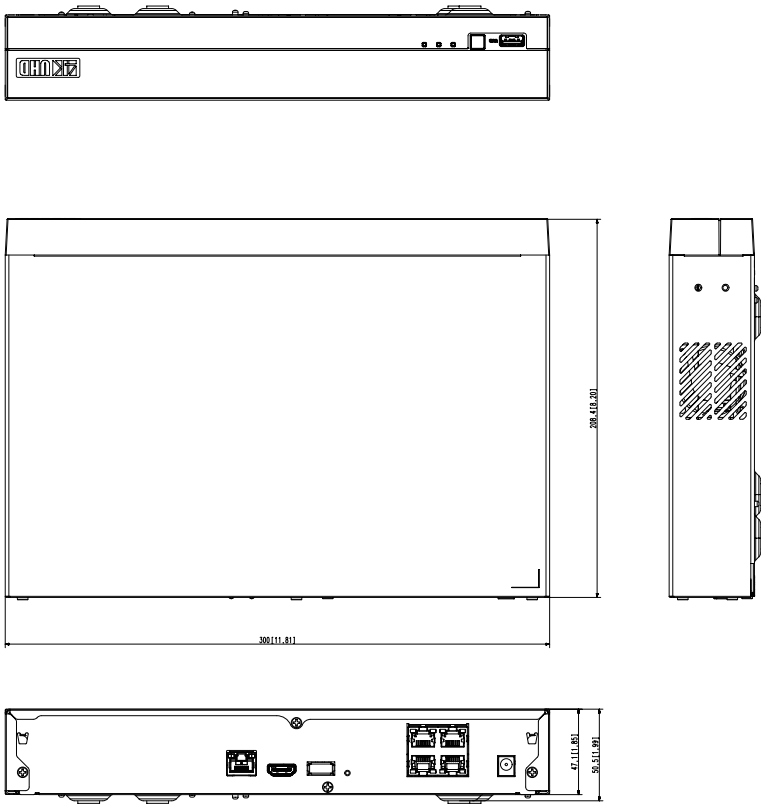
• QRN-410/QRN-810

unidade : mm (polegadas)



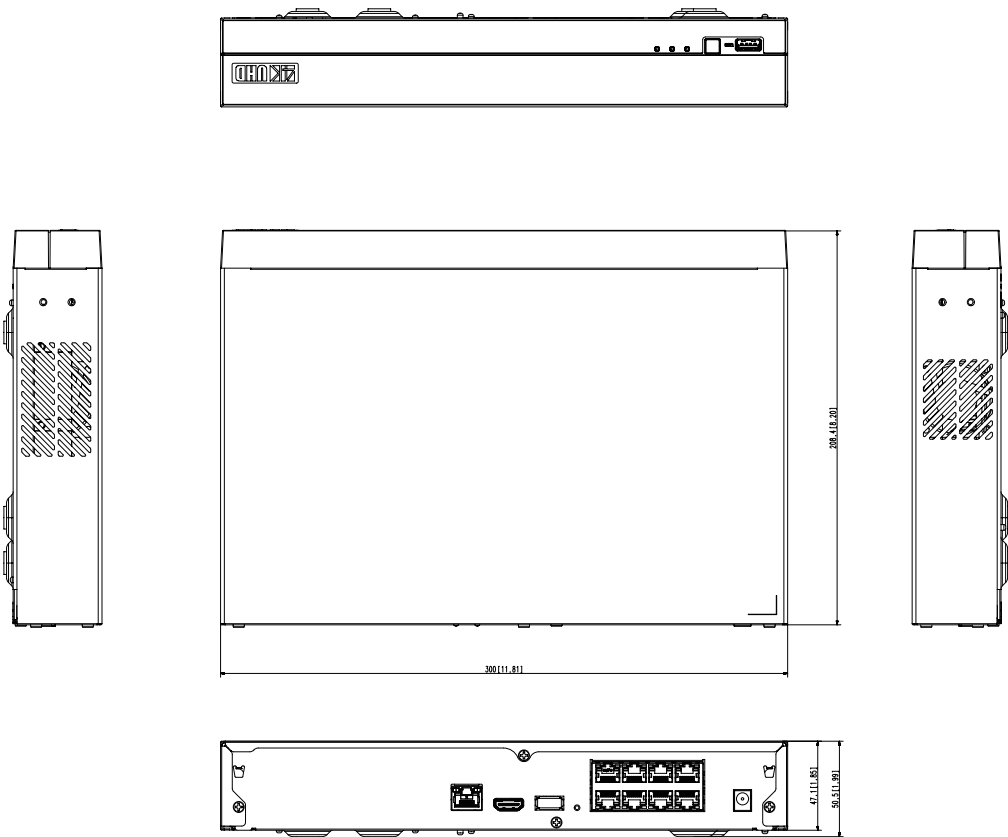
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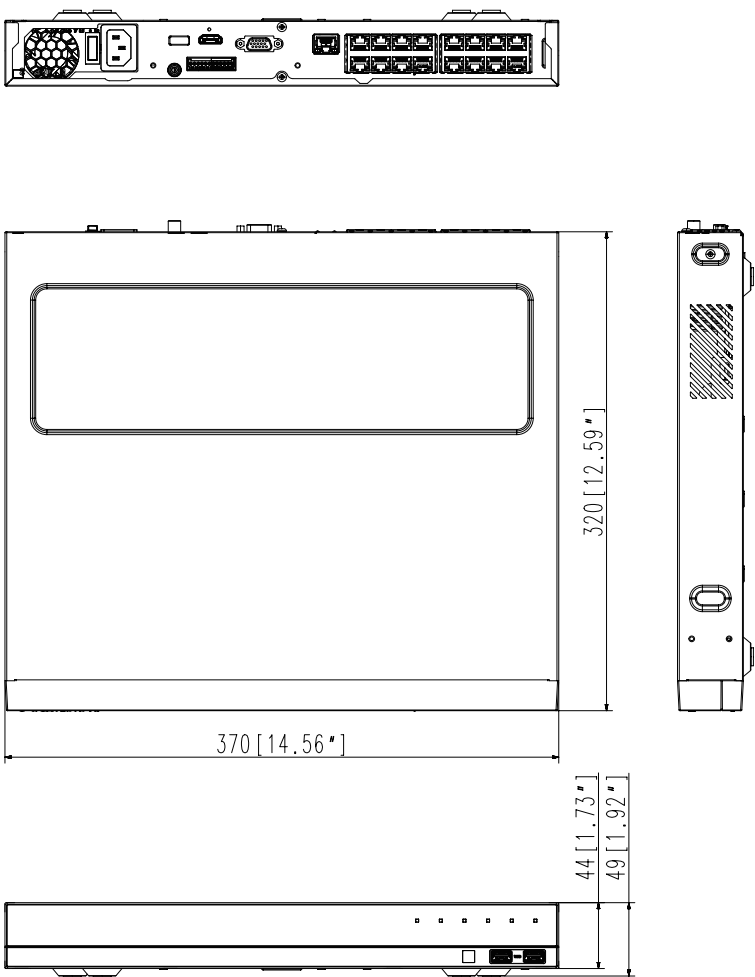
• QRN-810S

unidade : mm (polegadas)



• QRN-1610S

unidade : mm (polegadas)



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- **LGPL Software:** avahi-0.6.32, ffmpeg-2.4.3, glib-2.46.2, libdaemon-0.14, libnl-3.2.25, libusb-0.1.12, libusb-0.1.5, qrencode-3.4.4, wvdial-1.61, wstreams-4.6.1, Live555, qtopia4.7.2
- **MPL 1.1:** npapi-sdk
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Version 1.1

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- [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes
- [6]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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- [14]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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- [26]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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- [28]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
- [29]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

27. [30]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

28. [31]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

29. [32]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWW/H, IRIG

30. [33]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port

31. [34]Jeffrey Mogul <mogul@pa.dec.com> ntpttrace utility

32. [35]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port

33. [36]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

34. [37]Derek Mulcahy <derek@toybox.demon.co.uk> and [38]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

35. [39]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

36. [40]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

37. [41]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo

38. [42]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

39. [43]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

40. [44]Ray Schnitzler <schnitz@unipress.com> Unixware1 port

41. [45]Michael Shields <shields@tembel.org> USNO clock driver

42. [46]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

43. [47]Harlan Stern <harlan@pfcs.com> GNU automake/ autoconfigure makeover, various other bits (see the ChangeLog)

44. [48]Kenneth Stone <ken@sdd.hp.com> HP-UX port

45. [49]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

46. [50]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

47. [51]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

48. [52]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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