

WISENET

GRAVADOR DE VÍDEO EM REDE

Manual de especificações do produto

XRN-2010/2011/2010A/2011A
XRN-3010/3010A
XRN-1610/1610S/1610A/1610SA



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 eletricista 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 tombar.
- 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.

Para desligar em segurança, selecione Sair no menu e clique em <OK> na tela pop-up, em seguida, desconecte o cabo de alimentação.

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 Hanwha Techwin).



- 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	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
RAID	XRN-2011, XRN-2011A
iSCSI	XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
PoE	XRN-1610S,XRN-1610SA
P2P	XRN-3010A, XRN-2010A, XRN-2011A, XRN-1610A, XRN-1610SA
Controle remoto	XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Alavanca de controle	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Monitor ampliado	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Falha	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A
Dravação distribuída	XRN-3010, XRN-3010A

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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 (3840X2160, 4096X2160, 4000X3000)
- 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 16 canais
- Diversos Modos de Pesquisa (Tempo, Evento, Smart, Texto, Cópia de segurança, ARB)
- 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
- Função de Assistente de Instalação (Configuração Fácil, Configuração Rápida)
- Suporta o recurso de monitoramento remoto de smartphones através do apoio P2P (XRN-2010A/2011A/3010A/1610A/1610SA)

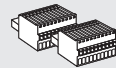
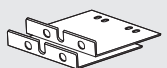
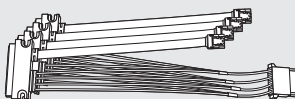
Conteúdo da embalagem

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.

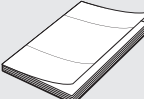
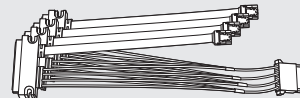
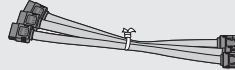


- A aparência dos componentes pode diferir da imagem exibida.
- A quantidade e a categoria dos acessórios podem ser diferentes dependendo da região de vendas.
- Em algumas regiões, o HDD não vem pré-instalado. A quantidade de Parafuso reparador HDD, Cabo de energia SATA, Cabo de dados SATA, e Cabo de dados/energia SATA varia dependendo no modelo.

XRN-2010/2011/2010A/2011A/3010/3010A

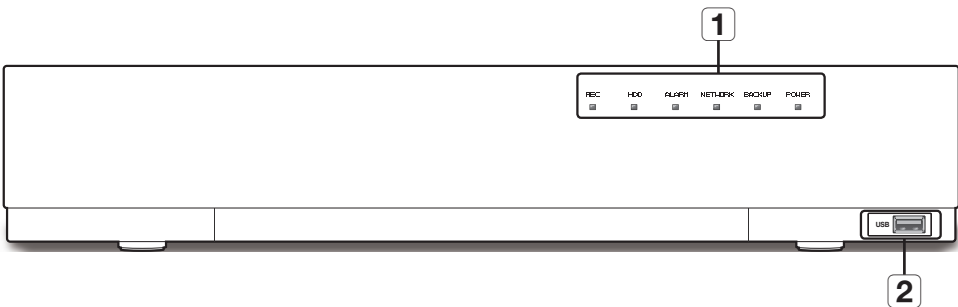
		
NVR	Mouse	Cabo de alimentação
		
Manual rápido	Bloco terminal	Raque de suporte
		
Parafuso de fixação da braçadeira	HDD SATA/Cabo de alimentação (N/A em XRN-2011/2011A)	Parafuso de fixação do HDD (N/A em XRN-2011/2011A)

XRN-1610/1610S/1610A/1610SA

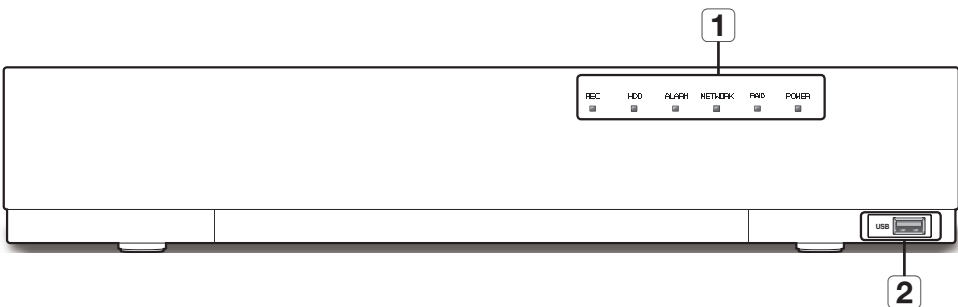
		
NVR	Mouse	
		
Cabo de alimentação	Bloco terminal	
		
Manual rápido	Raquete de suporte	Parafuso de fixação do HDD
		
Parafuso de fixação da braçadeira	HDD SATA/Cabo de alimentação (XRN-1610/1610A)	Cabo de alimentação SATA (XRN-1610S/1610SA)
		
Cabo de dados SATA (XRN-1610S/1610SA)		

FUNÇÕES E NOMES DAS PEÇAS (FRONTAL)

XRN-2010/2010A/3010/3010A/1610/1610S/1610A/1610SA



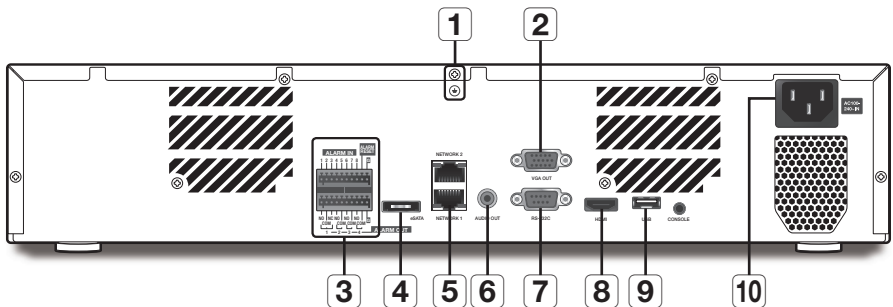
XRN-2011/2011A



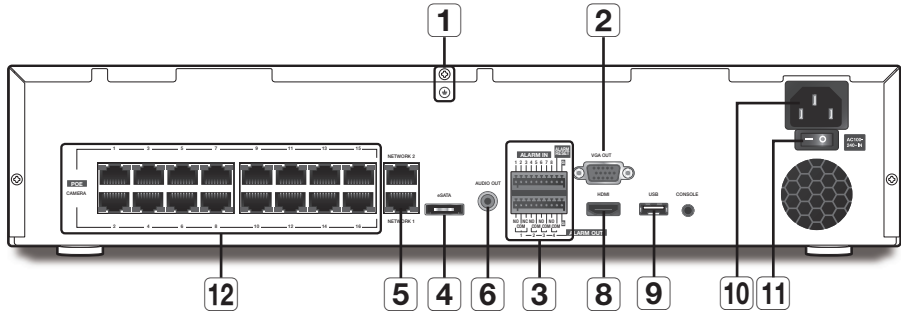
Nomes das peças		Funções
1	Indicador LED	REC : Acende quando a gravação está em andamento.
		HDD : Exibe o acesso normal ao HDD. O LED se acenderá quando o disco rígido for acessado.
		ALARM : Acende quando ocorre um evento.
		NETWORK : Exibe a conexão de rede e o status de transferência de dados.
		BACKUP : Permanece ON quando a cópia de segurança está em operação. (XRN-2010/2010A/3010/3010A/1610/1610S/1610A/1610SA)
		RAID : Permanece ON quando RAID está em uso. Pisca se a cópia de segurança é ativada quando o RAID está em uso. Pisca apenas quando a cópia de segurança está em operação se o RAID não estiver em uso. (XRN-2011/2011A)
		POWER : Exibe o status de ON/OFF (LIG/DESL).
2	USB	Conecta os dispositivos USB. (Suporta USB 2.0)

FUNÇÕES E NOMES DAS PEÇAS (TRASEIRO)

XRN-2010/2011/2010A/2011A/3010/3010A/1610/1610A



XRN-1610S/1610SA



Nomes das peças		Funções
1	Cabo de tomada de terra	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.
2	VGA OUT	Porta de saída do sinal de vídeo VGA.
3	ALARM	- ALARM IN : Portas de entrada de alarme. (1~8 CH) - ALARM RESET : Porta de restauração de alarme - ALARM OUT : Portas de saída de alarme. (1~4 CH)
4	eSATA	Terminal para conectar um dispositivo de armazenamento externo.
5	NETWORK1	Porta recomendada para conexão de câmera, a qual recebe uma imagem da câmera.
	NETWORK2	Porta recomendada para conexão com uma rede, visualizador web ou iSCSI.
6	AUDIO OUT	Porta de saída do sinal de áudio (tomada RCA).
7	RS-232C	Terminal de cabo para comunicação serial (suplente).
8	HDMI	Porta do conector HDMI.
9	USB	Conecta os dispositivos USB. (Suporta USB 3.0)
10	Alimentação	Terminal para conectar à corrente.
11	Interruptor de Alimentação	Interruptor de energia Lig/Desl. (XRN-1610S/1610SA)
12	PoE (CAMERA)	Porta de abastecimento de energia para se conectar a uma câmera. (XRN-1610S/1610SA)

■ [CONSOLE] foi desenvolvido apenas para propósitos de reparos.

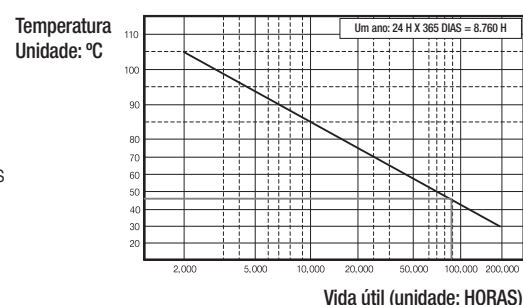
Observe o seguinte antes de utilizar o produto.

- 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.

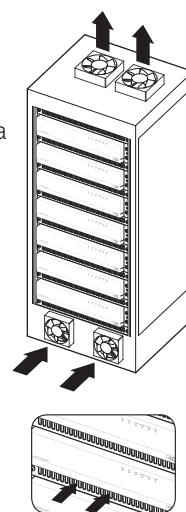
Observe que uma temperatura interna excessiva do produto podem causar uma falha do sistema ou uma menor vida útil do produto (consulte a figura à direita). Lembre-se de seguir as instruções antes de instalar o produto.



[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.

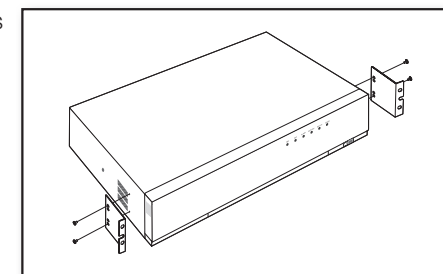


[Figura 2]

INSTALAÇÃO DE RACK

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

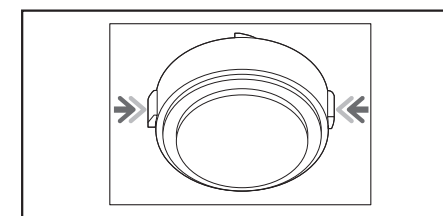
- Fixe os parafusos para que não fiquem frouxos devido a vibrações.



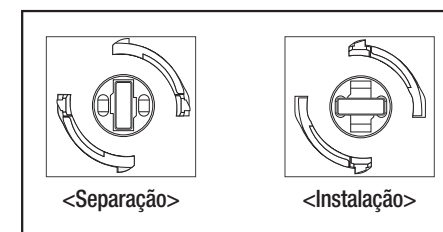
Cuidados ao instalar no rack

Para instalar vários NVRs no rack, certifique-se de separar o PÉ na parte inferior de cada NVR.

1. Existem quatro PÉS na parte inferior de um NVR. Pressione as partes projetadas em ambas as extremidades de cada "PÉ" e gire-a no sentido anti-horário.



2. "PÉ" está separado do corpo principal quando está girado para a extremidade da ranhura de fixação.



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 : Até 8 HDDs suportados

- 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.

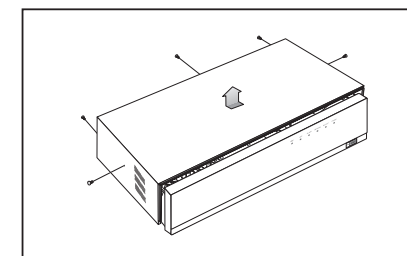
Instalando o HDD



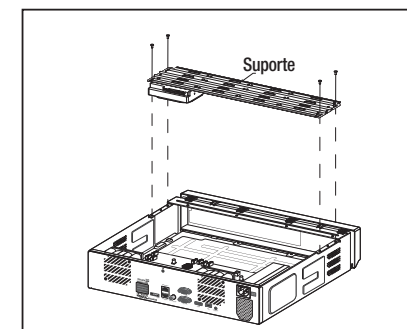
- Se você estiver adicionando um HDD novo ou usado anteriormente para este produto, além dos HDD(s) instalados originalmente, formate o novo HDD manualmente no conjunto antes de usar. Para aprender a formatar, consulte "**Dispositivo/Formato**" no Manual do usuário do Wisenet NVR.

Como instalar um disco rígido no modelo XRN-2010/2010A/3010/3010A/1610/1610A/1610S/1610SA

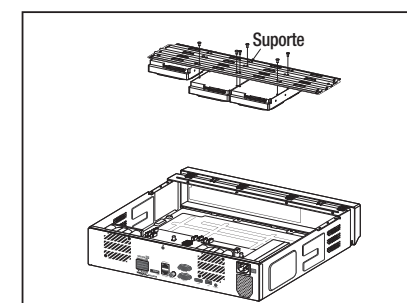
1. Primeiro, retire os parafusos localizados no lado esquerdo/direito e na parte de trás, depois retire a cobertura.



2. Retire os parafusos do lado esquerdo/direito (4 parafusos) e retire o suporte.

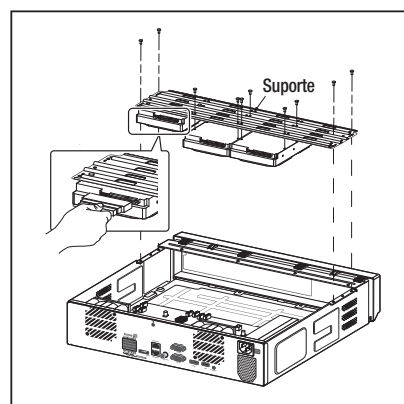


3. Monte um HDD no suporte e fixe-o com parafusos.



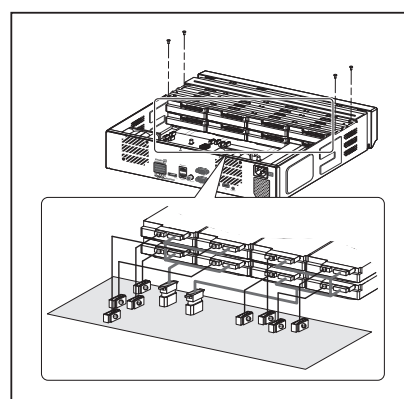
4. Ligue o cabo ao HDD fazendo corresponder o número do cabo de alimentação HDD SATA ao número de posição HDD no suporte.

- Para encontrar o número de localização HDD no suporte, por favor, consulte a figura abaixo.

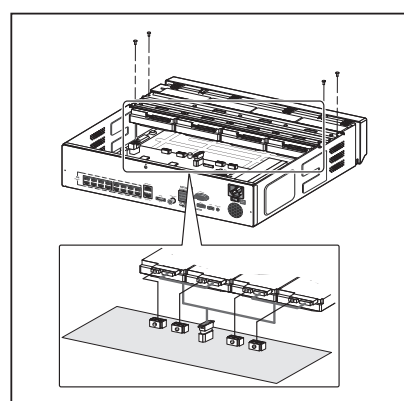


5. Monte o suporte, no qual está montado um HDD adicional, no NVR, fixe-o com parafusos e ligue o cabo de alimentação SATA ao conector na placa principal fazendo corresponder o número.

- Para conhecer os números de conector, por favor, consulte a figura abaixo.

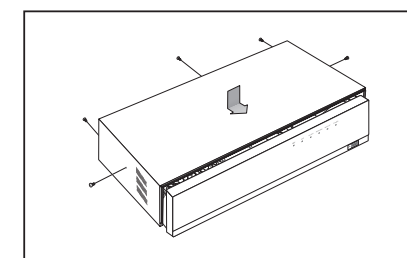


<XRN-2010/2010A/3010/3010A/1610/1610A>



<XRN-1610S/1610SA>

6. Verifique se existem problemas no terminal de conexão e nos cabos do produto, feche a cobertura e fixe-a com parafusos.

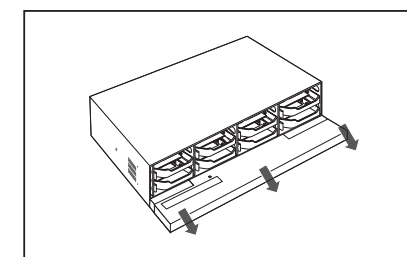


Como instalar um disco rígido no modelo XRN-2011/2011A

1. Abra a tampa frontal e verifique o suporte de instalação do disco rígido.



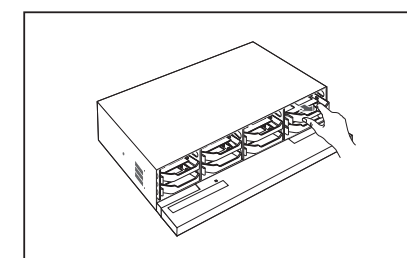
- Libere a conexão USB antes de abrir a tampa frontal para evitar danificar a porta USB.



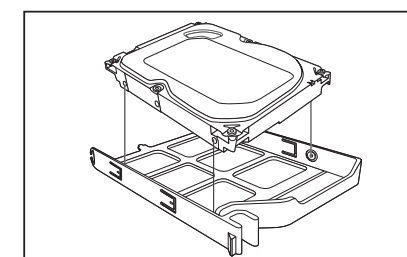
2. Empurre a patilha de bloqueio para a direita e retire o suporte de disco rígido.



- Tome cuidado para não arranhar as mãos quando remover o suporte do disco rígido.



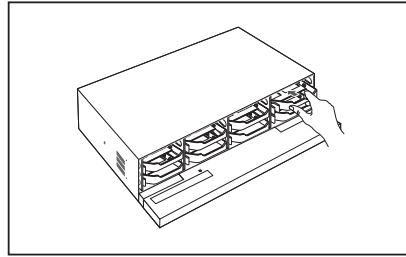
3. Alinhe e insira o disco rígido no suporte. Depois de inserir de um lado, empurre e introduza o outro lado ligeiramente.



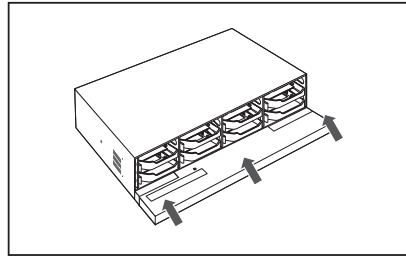
4. Alinhe o suporte com o disco rígido instalado com a patilha de bloqueio do compartimento e empurre o suporte na direção da placa.



- Empurre-o até ouvir o clique de encaixe da patilha de bloqueio. Se o disco rígido não estiver completamente ligado, pode ser detectado.



5. Empurre a tampa frontal para cima e feche-a.

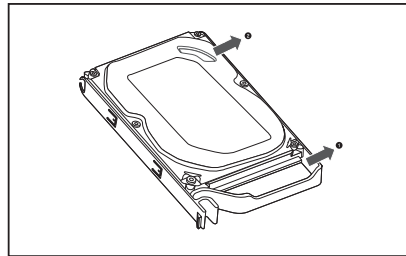


• Como trocar um disco rígido instalado

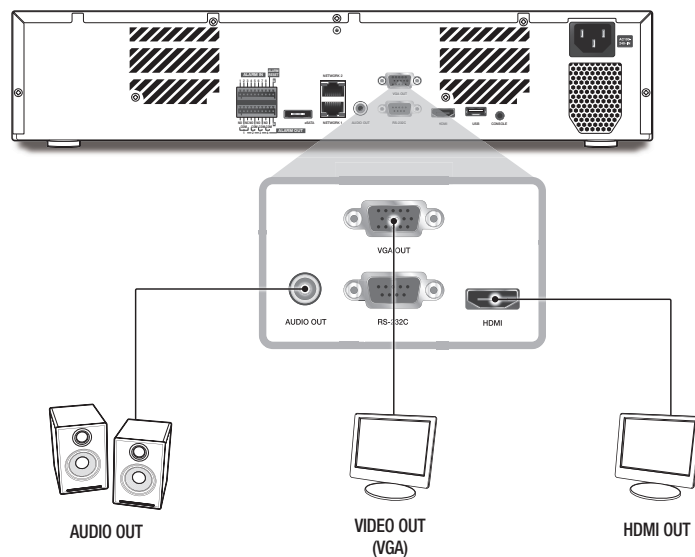
1. Abra completamente um suporte na direção da seta e retire o suporte do disco rígido.
2. Abra o outro suporte completamente e remova-o da sua base.



- O procedimento após a troca do disco rígido é o mesmo que o procedimento explicado sobre "Instalando o HDD".



CONEXÃO A UM DISPOSITIVO EXTERNO

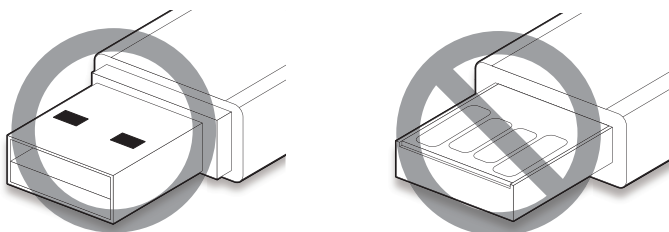


- ! Uma fonte de alimentação não classificada ou imprópria pode causar danos ao sistema. Assegure-se de usar somente a fonte de alimentação classificada antes de pressionar o botão POWER.

CONECTANDO O USB

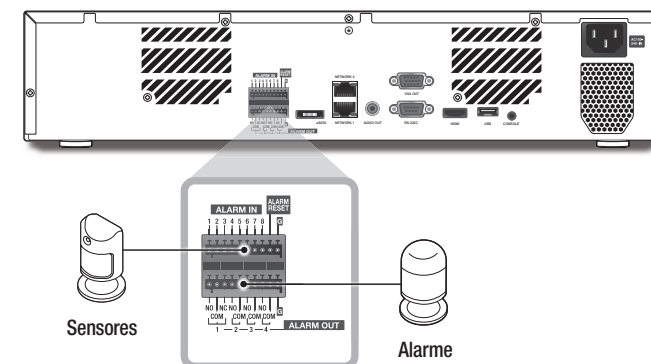
1. Existe uma porta USB na parte frontal do produto.
2. Você pode conectar um USB HDD, memória USB ou mouse à porta USB.
3. Se o seu HDD USB estiver conectado ao sistema, ele pode ser detectado e configurado com os seguintes passos em "Menu > Disposit. > Dispositivo de armazenamento" do Manual do usuário do Wisenet NVR.
4. 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.

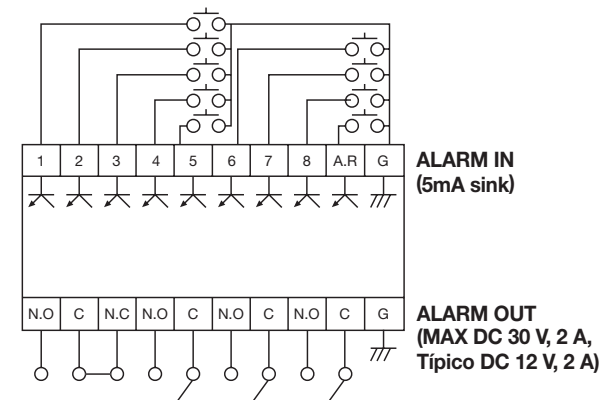


CONECTANDO A SAÍDA/ENTRADA DE ALARME

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



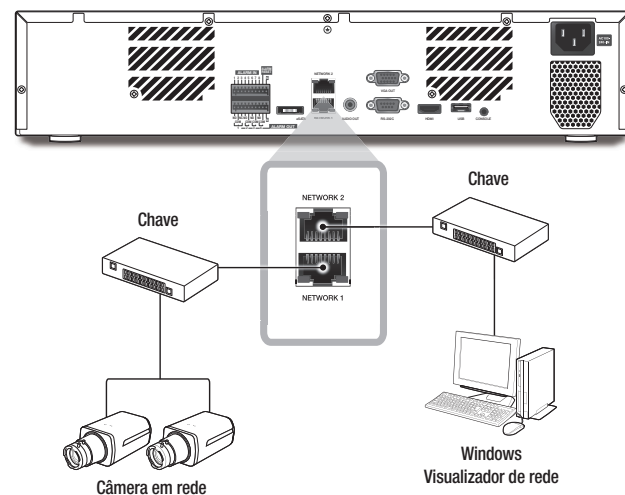
- ALARM IN 1 ~ 8 : Porta de entrada de alarme
- ALARM RESET : Ao receber um sinal Alarm Reset, o sistema cancela a entrada de alarme atual e continua a detecção.
- ALARM OUT 1 ~ 4 : Porta de saída de alarme



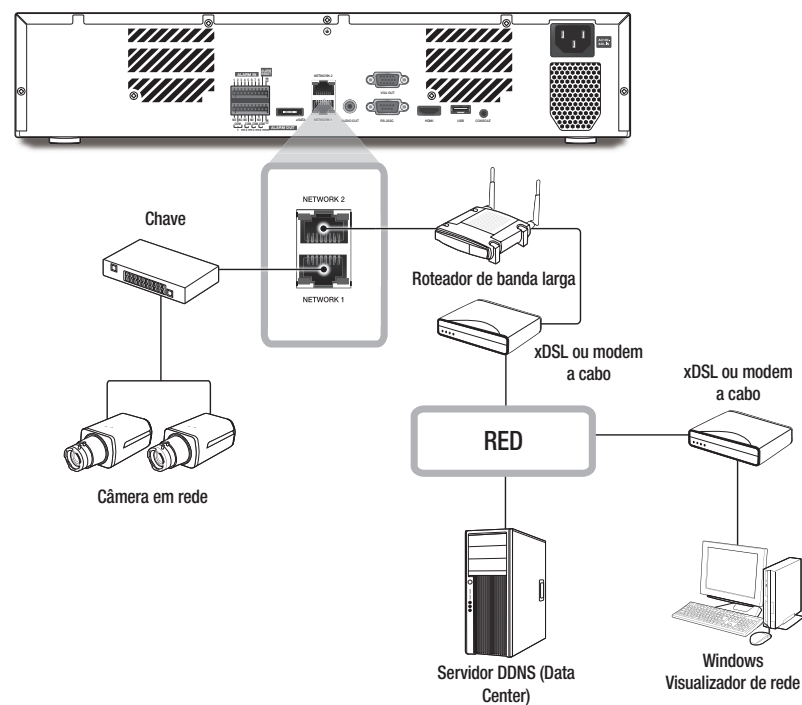
CONECTANDO A REDE

■ Para mais informações sobre a conexão de rede, consulte "Configuração de rede" no Manual do usuário do Wisenet NVR.

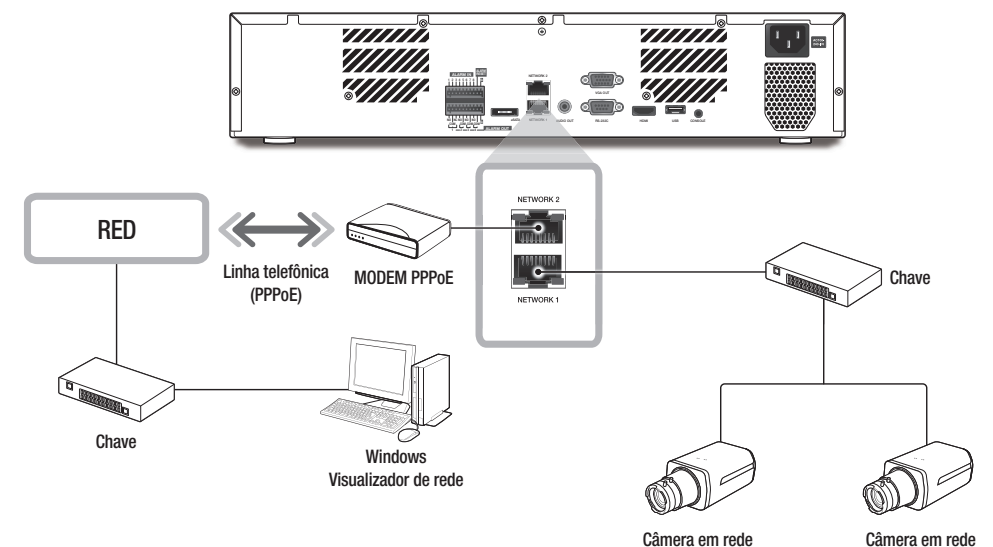
Conexão de rede via Ethernet (10/100/1000BaseT)



Conexão de rede via roteador

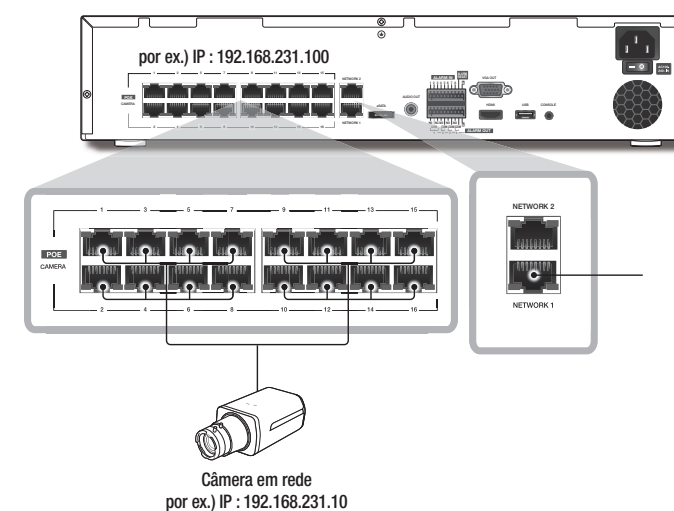


Conectar à Internet através de PPPoE

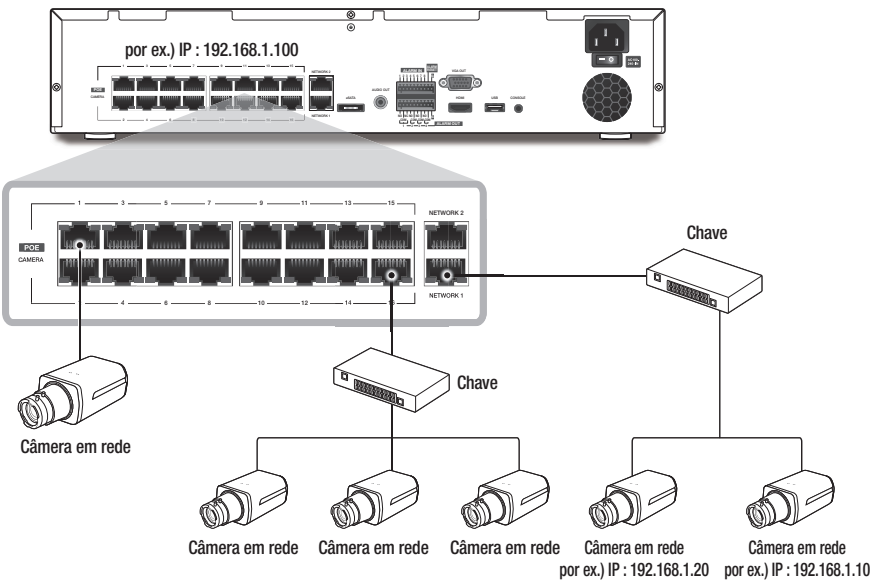


Conectando a câmera de rede (XRN-1610S/1610SA)

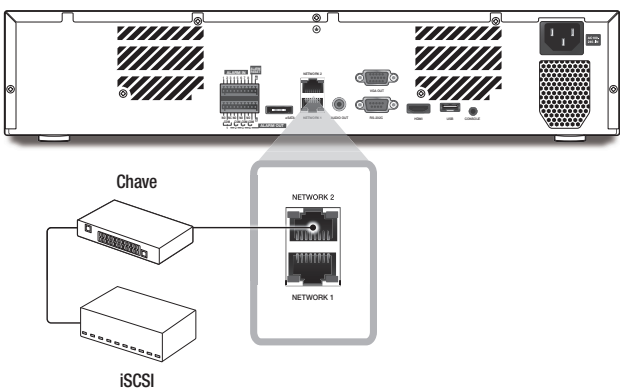
Exemplo 1)



Exemplo 2)

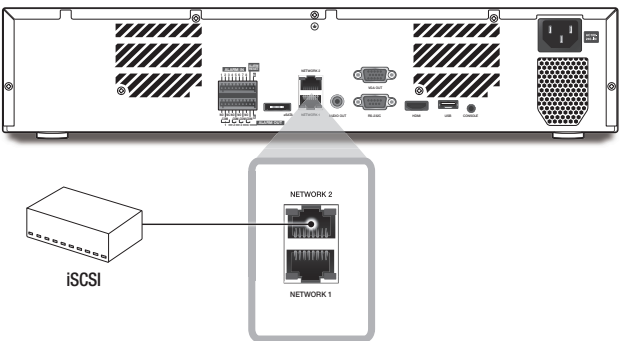


Pode usar um interruptor para a conexão



Conectar iSCSI

Conectar diretamente a NVR



• XRN-2010/2011/2010A/2011A

Item		Detalhes	
		XRN-2010/2010A	XRN-2011/2011A
Modelo			
Câmera em rede	Entradas	Máx. 32 canais	
	Resolução	CIF ~ 12MP	
	Protocolos	Wisenet, ONVIF	
Ao vivo	Visor local	1x HDMI / 1x VGA	
Desempenho			
Sistema Operativo	Incorporado	Linux	
Gravar	Compressão	H.265, H.264, MJPEG	
	Largura de banda de Gravação	Máximo de 256Mbps(2MP 32câmera de gravação em tempo real)	Máximo de 100Mbps(RAID-5 Mode)
	Resolução	CIF ~ 12MP	
Pesquisar e Reproduzir	Largura de Banda de Reprodução	32Mbps(16 canais em simultâneo)	
	Reprodução simultânea	16 canais (Monitor Local, CMS)	
	Resolução	CIF ~ 12MP	
	Controle de reprodução	Avanço rápido/lento para a frente/para trás, mover um passo para cima/ mover um passo para baixo	
Armazenamento	Incorporado	1 EA	
	HDD Interna	8 (RAID5 : Hot Swap) - Máx. 48TB(Não-RAID), Max. 36TB(RAID-5)	
	Externo	Armazenamento iSCSI (Máx. 384TB)	
	RAID	-	RAID-5(Tamanho da Matriz : 4-HDD x 2 Matrizes)
Cópia de Segurança	Backup de arquivo (via Web)	BU/Exe(GUI), JPG/AVI(Rede)	
	Função	Reprodução em um máx. de 16CH, Data-Hora/Exibir Título	

Item		Detalhes	
		XRN-2010/2010A	XRN-2011/2011A
Sensor	E/S	8/4 (NO/NC Seleccionável)	
Áudio	Entrada	32 canais (rede)	
	Compressão	G.711, G.726, AAC(16/48KHz)	
	Comunicação de Áudio	2 Vias	
Rede			
Interface		RJ-45, Gigabit Ethernet x2	
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 DDNS	
Largura de banda de transmissão		512Mbps(iSCSI desligado), 256Mbps(iSCSI ligado)	
Máx. de usuários remotos		Pesquisa (3)/Unicast ao vivo (10)/Multicast ao vivo(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, 8.1, 10, Mac OS X 10.9, 10.10, 10.11	
Navegador Web		MS IE, Google Chrome, Mac Safari	
Software Visualizador	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	Suporte de SGC (Sistema de Gestão de Conteúdos)	SDK/CGI	
Smart Phone	Modelo de suporte	Android, iOS	
	Suporte de protocolos	RTP, RTSP, HTTP, CGI	
	Controle	Ao Vivo (16ch), Reprodução (1ch)	
	Máx. de usuários remotos	Pesquisar(3) / Unicast ao vivo(10)	

Item		Detalhes	
		XRN-2010/2010A	XRN-2011/2011A
Funções			
PTZ	Controle	Via GUI, Visualizador Web, SPC-2000	
	Predefinir	300 Predefinições	
Redundância	Falha	32 (Normal) + 1 (Em espera)	
	ARB	Sim	
Controle do Sistema		Mouse, Web, SPC-2000(Controlador)	
Indicador/Interface			
Frente	Indicador	Indicador LED de Estado: Ação do HDD(1), Alarme(1), Alimentação(1), Gravação(1), Backup(1), Rede(1)	Indicador LED de Estado: Ação do HDD(1), Alarme(1), Alimentação(1), Gravação(1), RAID(1), Rede(1)
	Interruptor	N/A	
Conectores	VGA	1EA (Até 16 telas divididas em modo Live Support)	
	HDMI	1EA (Suporta Em Direto/PB/Configuração) - Suporta Máx. 4K (3840 x 2160)	
Conectores	Áudio	Saída (1EA, RCA, Linha)	
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)	
	Alarme	1) Entrada (8EA, Borne) 2) Reinicialização de alarme(1EA) 3) Saída (4EA, Borne) - Relé Saída1(NO/NC/COM) - Relé Saída2~4(NO/COM)	
	USB	2EA(Frente 1, Traseiro 1(USB3.0))	
	Armazenamento	1 e-SATA	
	Serial	RS-232C	
	Repor	-	
	Cabo de Alimentação	Entrada 1EA AC	

Item		Detalhes	
		XRN-2010/2010A	XRN-2011/2011A
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			
Alimentação		100 a 240 VCA ±10%; 50/60 Hz, 4~1,5A	
Consumo de Energia		99W (6TB HDD x 8ea)	
Mecânica			
Cor / Material		Preto / Metalizado	
Dimensões (LxAxP)		440 x 88 x 384.8 (17.32" x 3.46" x 15.15") (2U)	
Peso		4.86 kg (Com base em nenhum HDD)	5.43 kg (Com base em nenhum HDD)
Normas			
Aprovações		UL, FCC, KC, CB, CE-EMC, CCC, EAC, PSE	

Especificações de desempenho de gravação para o estado do HDD.

Não	Estado do HDD	Receber (Mbps)	Gravar (Mbps)	
			Interna	iSCSI
1	HDD para CE / Sem RAID	256	256	-
2	HDD para CE / RAID 5	100	100	-
3	HDD para Servidor / Sem RAID	256	256	256
4	HDD para Servidor / RAID 5	100	100	100

• XRN-3010/3010A

Item		Detalhes
Modelo		
Câmera em rede	Entradas	Máx. 64 canais
	Resolução	CIF ~ 12MP
	Protocolos	Wisenet, ONVIF
Ao vivo	Visor local	1x HDMI / 1x VGA Monitor duplo
	Desempenho	[Local Monitor] - 12M (30fps) - 8.3M(120fps) - 1080p(480fps) - 720P(960fps) - D1(1560fps)
Desempenho		
Sistema Operativo	Incorporado	Linux
Gravar	Compressão	H.265, H.264, MJPEG, WiseStream(H.265, H.264)
	Largura de banda de Gravação	Máximo de 300Mbps
	Resolução	CIF ~ 12MP
Pesquisar e Reproduzir	Largura de Banda de Reprodução	32Mbps(16 canais em simultâneo)
	Usuário	Máx. 4 Usuários (Local 1, Remoto 3)
	Reprodução simultânea	Máx. 16 canais (Monitor Local, CMS)
Pesquisar e Reproduzir	Resolução	CIF ~ 12MP
	Fisheye dewarping	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	0TB ~ 8TB
	HDD Interna	8 (Máx. 64TB)
	Externo	-

Item		Detalhes
Cópia de Segurança	Backup de arquivo (via Web)	BU/Exe(GUI), JPG/AVI(Rede)
	Função	Reprodução Multicanal (Até 16 Ch) Exibição Data-Hora/Título
Sensor	E/S	8/4 (NO/NC Seleccionável)
Áudio	Entrada	64 canais (rede)
	Compressão	G.711, G.726, AAC(16/48KHz)
	Comunicação de Áudio	2 Vias
Rede		
Interface		RJ-45, Gigabit Ethernet x2
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 DDNS
Largura de banda de transmissão		XRN-3010 : 512Mbps XRN-3010A : 512Mbps(P2P Off), 256Mbps(P2P On)
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		Window 7, 8, 10, Mac OS X(10.8 ou superior)
Navegador Web		MS IE, Google Chrome, Mac Safari
Software Visualizador	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer
	Suporte de SGC (Sistema de Gestão de Conteúdos)	SDK/CGI (SUNAPI)
Funções		
PTZ	Controle	Via GUI, Visualizador Web, SPC-2000
	Predefinir	300 Predefinições

Item		Detalhes
Smart Phone	Modelo de suporte	Android, iOS
	Suporte de protocolos	RTP, RTSP, HTTP, CGI(SUNAPI)
	Controle	Ao Vivo(16ch) : Apoio multiperfil Reprodução(1ch)
	Máx. de usuários remotos	Pesquisar(3) / Unicast ao vivo(10) / Multicast (20)
Redundância	Falha	N+1 (Include Fail-Back)
	ARB	Sim
Controle do Sistema		Mouse, Web, SPC-2000(Controlador)
Indicador/Interface		
Frente	Indicador	Indicador LED de Estado: (6EA) : Ação do HDD(1), Alarme(1), Alimentação(1), Gravação(1), Backup(1), Rede(1)
Conectores	VGA	Sub : 1 EA (Suporta modo tela ao vivo até 16 divisões)
	HDMI	Principal: 1 EA (Ambos suporta Ao vivo / PB / Configuração) - Suporta até 4K (3840 x 2160, Modo monitor único com)
Conectores	Áudio	Saída (1EA, RCA, Linha)
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)
	Alarme	1) Entrada (8EA, Borne) 2) Reinicialização de alarme(1EA) 3) Saída (4EA, Borne) - Relé Saída1(NO/NC/COM) - Relé Saída2~4(NO/COM)
	USB	2EA(Frente 1, Traseiro 1)
	Armazenamento	1 e-SATA
	Serial	RS-232C
	Repor	Comutador (1EA)
	Cabo de Alimentação	Entrada 1EA AC

Item		Detalhes
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		
Alimentação		100 a 240 VCA ±10%; 50/60 Hz, 4~1,5A
Consumo de Energia		Máx. 99W (338BTU, 6TB HDD x 8ea)
Mecânica		
Cor / Material		Preto / Metalizado
Dimensões (LxAxP)		L440 x A88 x P384.8 (17.32" x 3.46" x 15.15") (2U)
Peso		4.86Kg(10.71 lb, HDD não incluído)

Especificações de desempenho de gravação para o estado do HDD.

Modo	Condição HDD	Gravar
		Interna
Modo geral	-	150
Modo distribuído	1 HDD	150
	2 ou mais HDDs	300

especificações do produto



• XRN-1610/1610S/1610A/1610SA

Item		Detalhes	
		XRN-1610/1610A	XRN-1610S/1610SA
Modelo			
Câmera em rede	Entradas	Máx. 16 canais	
	Resolução	CIF ~ 12MP	
	Protocolos	Wisenet, ONVIF	
Ao vivo	Visor local	1x HDMI / 1x VGA Monitor duplo	
	Desempenho	[Local Monitor] 12MP (30fps) 8MP(120fps) 5MP(180fps), 3MP(240fps), 2MP(480fps), 720p(480fps), D1(480fps) [Web] 5MP(30fps), 3MP(60fps), 2MP(120fps), 720p(240fps), D1(480fps)	
Desempenho			
Sistema Operativo	Incorporado	Linux	
Gravar	Compressão	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Largura de banda de Gravação	180Mbps	
	Resolução	CIF ~ 12MP	
Pesquisar e Reproduzir	Largura de Banda de Reprodução	32Mbps(16 canais em simultâneo)	
	Desempenho	Máx. de 4 usuários (Definido 1, Remotos 3)	
	Reprodução simultânea	Até 16CH (Local, Rede)	
	Resolução	CIF ~ 12MP	
	Fisheye Dewarping	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 por padrão	0 Tb ~ 6 Tb	
	Interna	8 SATA (Máx. 48Tb)	4 SATA (Máx. 24Tb)
	Externo	1 e-SATA, iSCSI(Máx. 384TB)	
Cópia de Segurança	Formato de arquivo	BU/Exe(GUI), JPG/AVI(Rede)	
	Função	Reprodução em um máx. de 16CH, Data-Hora/Exibir Título	

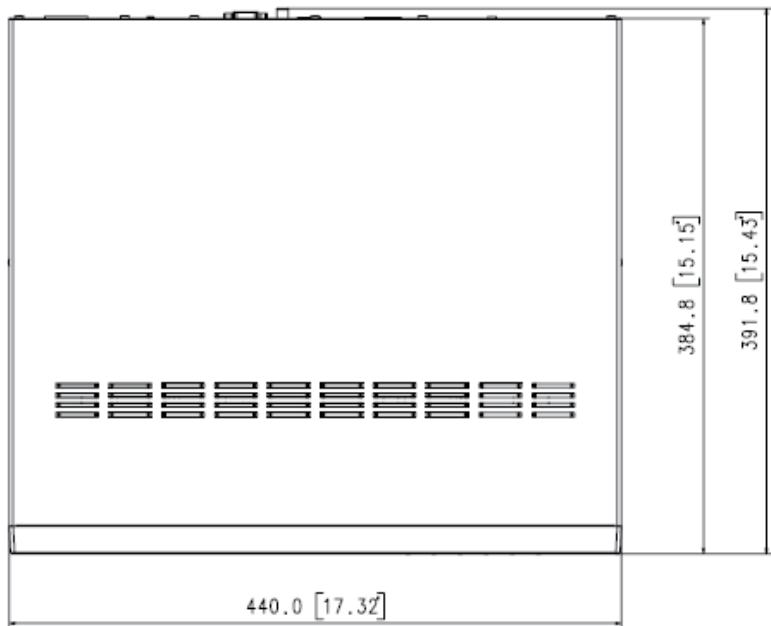
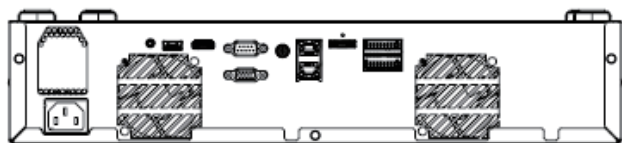
Item		Detalhes	
		XRN-1610/1610A	XRN-1610S/1610SA
Sensor	E/S	8/4 (NO/NC Seleccionável)	
Áudio	Entrada	16 canais (rede)	
	Compressão	G.711, G.726, AAC(16/48KHz)	
	Comunicação de Áudio	2 Vias (atravessamento entre a câmera e o SSM)	
Rede			
Protocolo		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Servidor, Cliente), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Servidor, Cliente)	
DDNS		Hanwha DDNS	
Largura de banda de transmissão		Máx. 256Mbps(iSCSI desligado), Máx. 128Mbps(iSCSI ligado)	
Máx. de usuários remotos		Pesquisa (3)/Unicast ao vivo (10)/Multicast ao vivo(20)	
Versão IP		IPv4/v6	
Segurança		Registro de acesso de usuário, Filtragem de IP, 802 1x, Criptografia (ID/ PW, Gravação, Transmissão, Backup)	
Idiomas	GUI	Inglês, Francês, Alemão, Italiano, Espanhol, Russo, Turco, Polonês, Holandês, Sueco, Checo, Português, Dinamarquês, Romeno, Sérvio, Croata, Húngaro, Grego, Norueguês, Coreano, Chinês, Japonês, Tailandês	
	Web	Inglês, Francês, Alemão, Italiano, Espanhol, Russo, Turco, Polonês, Holandês, Sueco, Checo, Português, Dinamarquês, Romeno, Sérvio, Croata, Húngaro, Grego, Norueguês, Coreano, Chinês, Japonês	
SO		Windows XP(service pack 2 ou superior), Vista, 7, 8, 10, Mac OS X (10.7 ou superior)	
Navegador Web		Visualizador de Web sem plugin Navegador suportado: Google Chrome 47, MS Edge 20 WMF : 1CH LIVE(800X600), CONFIGURAÇÃO Plug-in do Visualizador da web Navegador suportado: MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS apenas X	
Software Visualizador	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	Suporte de SGC (Sistema de Gestão de Conteúdos)	SDK/CGI (SUNAPI)	

Item		Detalhes	
		XRN-1610/1610A	XRN-1610S/1610SA
Smart Phone	Modelo de suporte	Android, iOS	
	Suporte de protocolos	RTP, RTSP, HTTP, CGI (SUNAPI)	
	Controle	Ao vivo (16 canais) : Suporte multiperfil / Reprodução (1 canal, Máx 2 MP)	
	Máx. de usuários remotos	Pesquisar(3) / Unicast ao vivo(10)/ Multicast ao vivo(20)	
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
	Sincronização de tempo	-	Protocolo de Tempo NVR para Câmera PoE (Sincronização de tempo com base em tempo NVR)
Configuração fácil		Assistente de Configuração (Idioma, Data/Hora, Rede, Configuração Automática da Câmera)	Assistente de Configuração (Idioma, Data/Hora, Rede, Configuração Automática da Câmera) ※ selecionável entre o modo Pnp e Manual
ARB (Apoio de recuperação automática)		Sim	
PTZ	Controle	Via GUI, Visualizador Web, SPC-2000 (USB)	
	Predefinir	300 Predefinições	
Controle do Sistema	Aplicativos de controle	Mouse, IR Remocon, Web, SPC-2000 (USB)	
Indicador/Interface			
Frente	Indicador	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	Sub : 1 EA (Suporta modo tela ao vivo até 16 divisões)	
	HDMI	Principal: 1 EA (Ambos suportam Ao vivo / PB / Configuração) - Suporta até 4K (3840 x 2160, Modo de Monitor Único)	

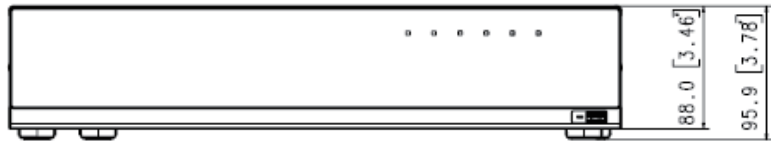
Item		Detalhes	
		XRN-1610/1610A	XRN-1610S/1610SA
Conectores	Áudio	Saída 1EA, RCA, Linha	
	Ethernet	2EA (LAN/WAN, 1 Gbps) - LAN : Downlink para Câmera/ Hub PoE(PoE+) - WAN : Uplink para CMS	16EA (PoE(PoE+), 100Mbps) 2EA (LAN/WAN, 1Gbps) - LAN : Downlink para Câmera/ Hub PoE(PoE+) - WAN : Uplink para CMS
	Alarme	Entrada (8EA, Borne) Saída (4EA, Borne)	
	USB	2EA(Frente 1, Traseiro 1)	
	Serial	1ea RS-232C (Plano para suporte como base de projeto)	-
	Repor	Sim (Restauro de fábrica, Restauro de alarme)	
	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 energia		100 ~ 240V AC	
Consumo de Energia		Máx. 76.3W (8 HDDs)	Máx. 271,9 W (4 HDDs, PoE(PoE+) ligado), Máx. 51.9 W (4 HDDs, PoE(PoE+) desligado) ※ PoE(PoE+) Orçamento: Máx. 200 W
Mecânica			
Cor / Material		Preto / Metalizado	
Dimensões (LxAxP)		440 x 88 x 384.8mm (17.32" x 3.46" x 15.15") (2U)	
Peso		5.44kg	5.1kg

• XRN-2010/2011/2010A/2011A

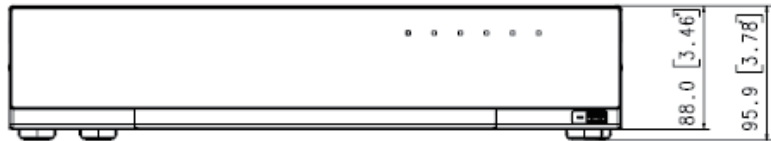
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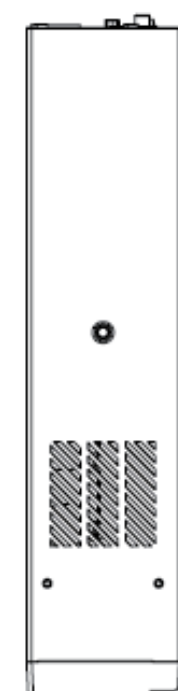
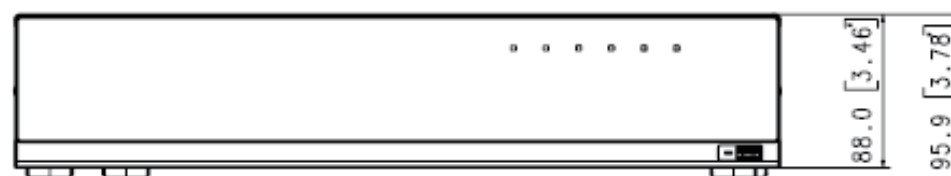
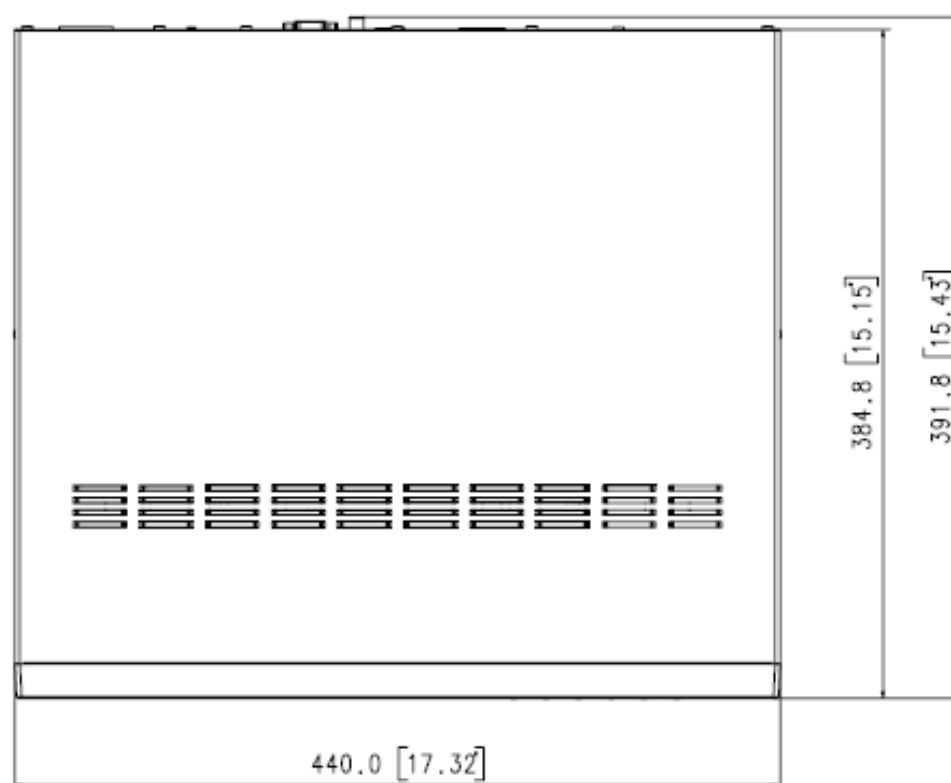
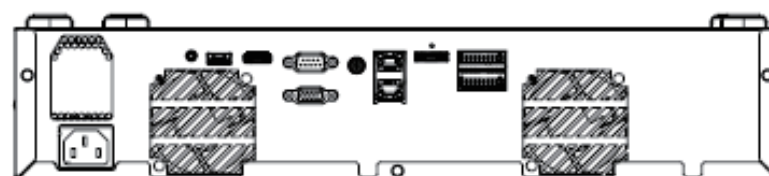


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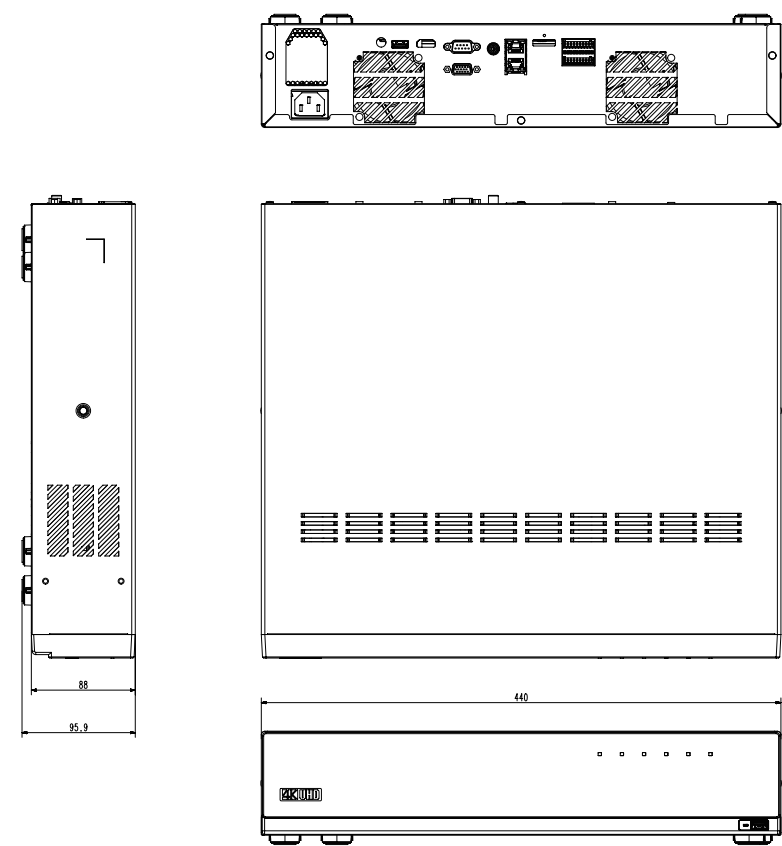
• XRN-3010/3010A

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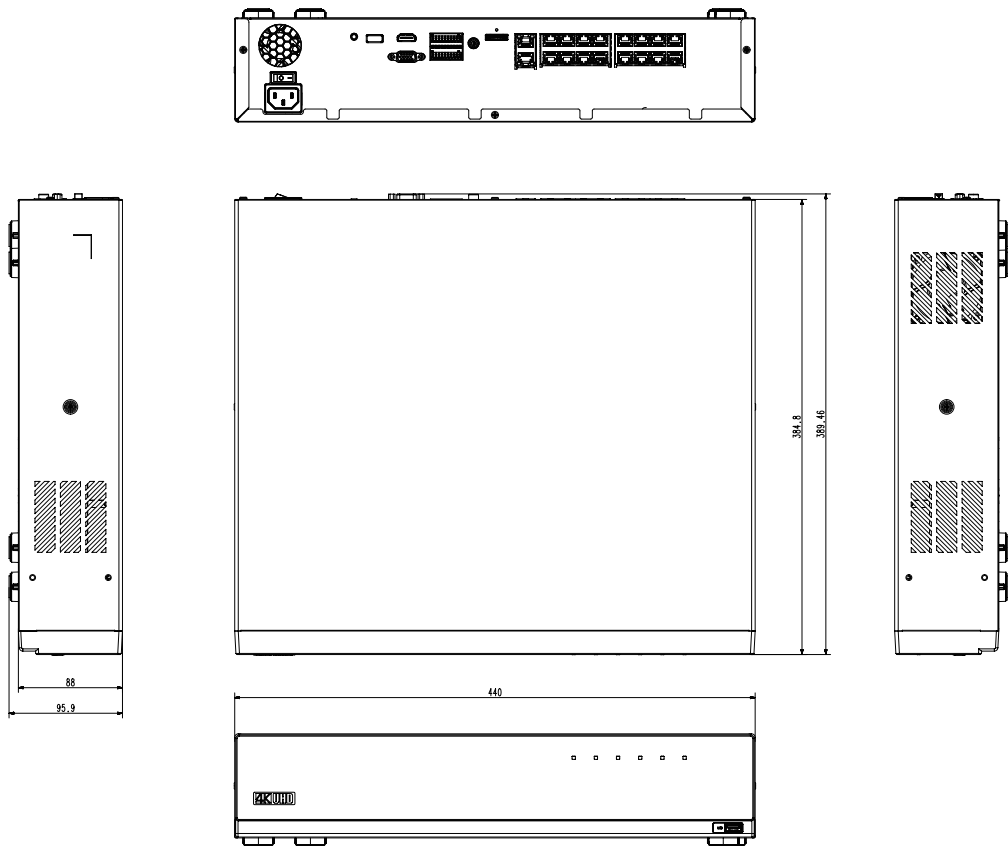
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• XRN-1610S/1610SA

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3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5

4. [5]Michael Barone <michael.barone@lmco.com> GPSVME fixes

5. [6]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option

6. [7]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

7. [8]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver

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11. [12]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration

12. [13]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

13. [14]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port

14. [15]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port

15. [16]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119

16. [17]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

17. [18]Mike Iglesias <iglesias@uci.edu> DEC Alpha port

18. [19]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port

19. [20]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul

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22. [24]Frank Kardel [25]<Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup

23. [26]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications

24. [27]Dave Katz <dkatz@cisco.com> RS/6000 AIX port

25. [28]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

26. [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> ntptrace 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 Stenn <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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A marca Eco representa a determinação da Hanwha Techwin em criar aparelhos ecológicos e indica que o aparelho satisfaz a diretriz RoHS da União Europeia.



Eliminação Correcta Deste Produto (Resíduos de Equipamentos Eléctricos e Electrónicos)

Esta marca - apresentada no produto, nos acessórios ou na literatura – indica que o produto e os seus acessórios electrónicos (por exemplo, o carregador, o auricular, o cabo USB) não deverão ser eliminados juntamente com os resíduos domésticos no final do seu período de vida útil. Para impedir danos ao ambiente ou à saúde humana causados pela eliminação incontrolada de resíduos, deverá separar estes equipamentos de outros tipos de resíduos e reciclá-los de forma responsável, para promover uma reutilização sustentável dos recursos materiais.

Os utilizadores domésticos deverão contactar o estabelecimento onde adquiriram este produto ou as entidades oficiais locais para obterem informações sobre onde e de que forma podem entregar estes equipamentos para permitir efectuar uma reciclagem segura em termos ambientais.

Os utilizadores profissionais deverão contactar o seu fornecedor e consultar os termos e condições do contrato de compra. Este produto e os seus acessórios electrónicos não deverão ser misturados com outros resíduos comerciais para eliminação.



Eliminação correta das baterias deste produto

(Aplicável na União Europeia e em outros países europeus com sistemas de devolução de baterias.)

Esta marca na bateria, manual ou embalagem indica que as baterias deste produto não devem ser eliminadas com outros resíduos domésticos no fim da sua vida útil. Onde presentes, os símbolos químicos Hg, Cd ou Pb indicam que a bateria contém mercúrio, cádmio ou chumbo acima dos níveis de referência da Diretriz 2006/66 da UE. Se as baterias não forem eliminadas corretamente, essas substâncias podem causar danos à saúde e ao meio ambiente. Para proteger recursos naturais e promover a reutilização de materiais, separe as baterias de outros tipos de resíduos e recicle-as através do seu sistema local gratuito de devolução de baterias. A bateria de lítio recarregável incorporada neste produto não pode ser substituída pelo usuário. Para obter informações sobre sua substituição, entre em contato com seu prestador de serviços.

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