

WISeNet

GRAVADOR DE VÍDEO EM REDE

Manual de especificações do produto

PRN-4011



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) Sigas 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 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 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.

Uso de símbolos gráficos

Os símbolos gráficos colocados no equipamento, quer tenha sido exigido por esta norma ou não, deve estar de acordo com a EC 60417 ou ISO 3864-2 ou ISO 7000, se disponíveis. Na ausência de símbolos adequados, o fabricante pode desenhar símbolos gráficos específicos. Os símbolos colocados no equipamento devem ser explicados no manual do usuário.

Símbolo	Publicação	Descrição
	IEC60417, No.5032	Tensão alternada

Produtos NVR para cada recurso

Função	Produtos
Ventoinha	PRN-4011
RAID	PRN-4011
iSCSI	PRN-4011
Alavanca de controle	PRN-4011
Monitor ampliado	PRN-4011
Redundância da fonte de alimentação	PRN-4011
Falha	PRN-4011

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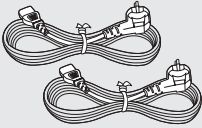
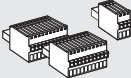
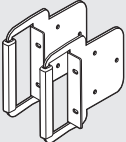
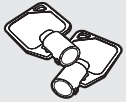
CARACTERÍSTICAS

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.

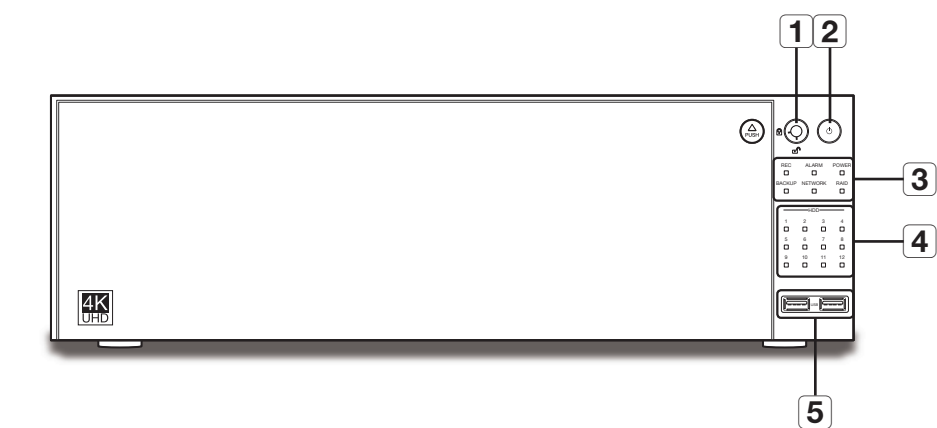
- Interface amigável ao usuário
- Suporta uma variedade de resoluções de câmera 4K (3840X2160, 4096X2160, 4000X3000)
- Outputs a 4K high definition image using HDMI
- Decodificação de telas de 64 divisões
- Suporta saída de monitor duplo (expandir, duplicar)
- Suporta várias senhas
- Grava e reproduz 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 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)
- Suporta perfis múltiplos do visualizador remoto
- Suporta ARB
- Suporta Falha
- Função usada para definir o período de armazenamento para cada canal

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.

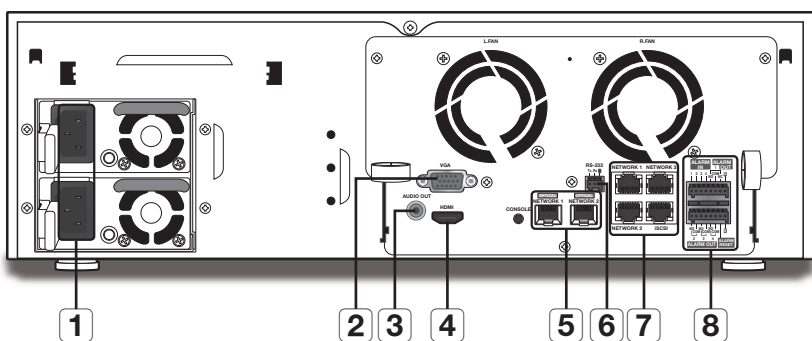
		
NVR	Mouse	Cabo de alimentação
		
Manual rápido	Bloco terminal	Montagem em rack
		
Parafuso de montagem em rack	Parafuso de fixação do HDD	Chave de bloqueio de HDD

FUNÇÕES E NOMES DAS PEÇAS (FRONTAL)



Nomes das peças		Funções
1	Chave de bloqueio de HDD	Isto é um dispositivo de bloqueio usado para restringir o acesso ao HDD. Use a chave do produto fornecida quando comprou o produto.
2	Alimentação	Usado para ligar/desligar.
3	Indicador LED	REC : Acende quando a gravação está em andamento.
		ALARM : Acende quando ocorre um evento.
		POWER : Exibe o status de ON/OFF (LIG/DESL).
		BACKUP : Exibe quando o backup está em andamento.
		NETWORK : Exibe a conexão de rede e o status de transferência de dados.
4	HDD	RAID : Exibe a operação RAID em andamento.
4	HDD	Exibe o acesso normal ao HDD. O LED se acenderá quando o disco rígido for acessado.
5	USB	Conecta os dispositivos USB.

FUNÇÕES E NOMES DAS PEÇAS (TRASEIRO)



Nomes das peças		Funções
1	Alimentação	Terminal para conectar à corrente. - Com fonte de alimentação dupla, mesmo que conecte apenas uma fonte de alimentação, pode operar corretamente. No entanto, para uma maior confiabilidade, recomenda-se que use fontes de alimentação separadas. - Se ocorrer um problema durante o movimento, o alarme SMPS soará. (Você pode desligar o alarme pressionando o botão redondo verde) - Mesmo que a fonte de energia não esteja ligada, o LED do botão SMPS verde aplicável e a ventoinha SMPS podem ser operados.
2	VGA	Porta de saída do sinal de vídeo VGA.
3	AUDIO OUT	Porta de saída do sinal de áudio (tomada RCA).
4	HDMI	Porta do conector HDMI.
5	OPTICAL NETWORK 1/2	Porta I/F de comunicações óticas
6	RS-232C	Terminal de cabo para comunicação serial.
7	NETWORK 1	Porta para conexões da câmera; recebe vídeo de uma câmera.
	NETWORK 2	Porta para conexões da câmera; recebe vídeo de uma câmera.
	NETWORK 3	Porta usada para enviar vídeo para o visualizador web.
	iSCSI	Porta para conectar ao iSCSI externo.
8	ALARM	- ALARM IN : Portas de entrada de alarme. (1~4 CH) - ALARM RESET : Porta de restauração de alarme - ALARM OUT : Portas de saída de alarme. (1~4 CH)

[CONSOLE] foi desenvolvido apenas para propósitos de reparos.

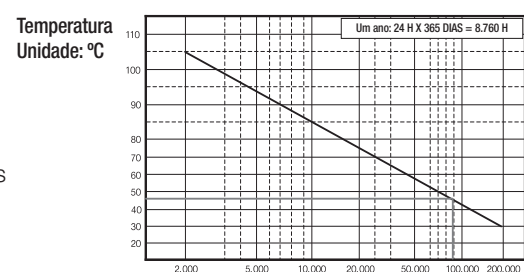
Observe o seguinte antes de utilizar o produto.

- 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.

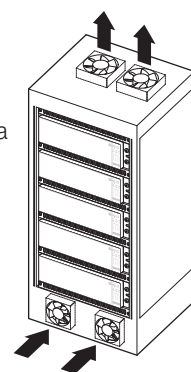
Observe que uma temperatura interna excessiva do produto podem causar uma falha do sistema ou uma menor vida útil do produto (consulte a figura à direita). Lembre-se de seguir as instruções antes de instalar o produto.



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.

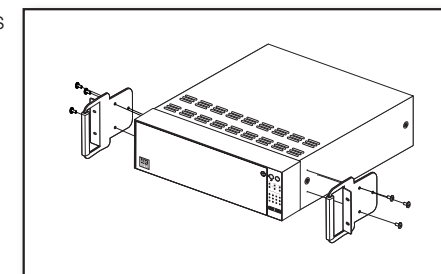


[Figura 2]

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.



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 12 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

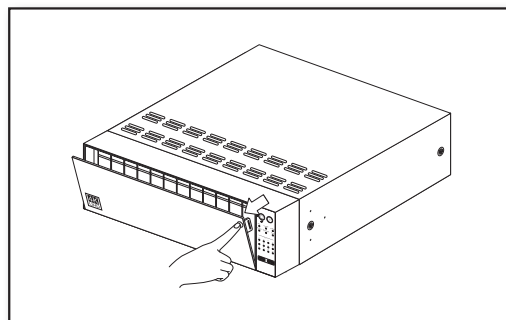
1. Não aplique força excessiva ao HDD.
2. Preste atenção para não afrouxar os parafusos ou acessórios de desmontagem.
 - Se os parafusos ou acessórios não forem montados corretamente, o produto pode apresentar mau funcionamento ou não funcionar adequadamente.
3. Verifique a compatibilidade do HDD antes de adicionar um HDD.
 - Contate seu representante mais próximo para obter a lista dos dispositivos compatíveis.
4. Se você deseja substituir ou adicionar um HDD, contate primeiro o seu revendedor ou o nosso atendimento ao cliente.
 - Apenas o administrador do produto pode abrir a porta do HDD na parte da frente.

Instalando o HDD

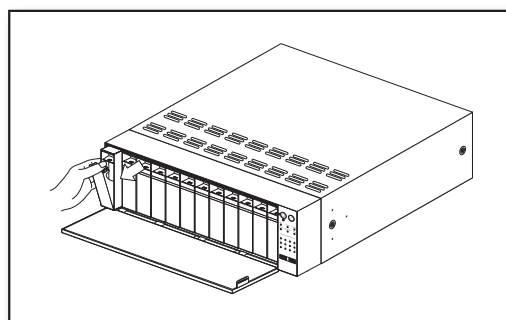


- Se você estiver adicionando um HDD novo ou usado anteriormente para este produto, além dos HDD(s) instalados originalmente, formate o novo HDD manualmente no conjunto antes de usar. Para aprender a formatar, consulte “Dispositivo/Formato” no Manual do usuário do Wisenet NVR.
- Para substituir ou instalar um HDD adicional, você deve entrar em contato com o seu revendedor ou com o nosso centro de atendimento ao cliente.

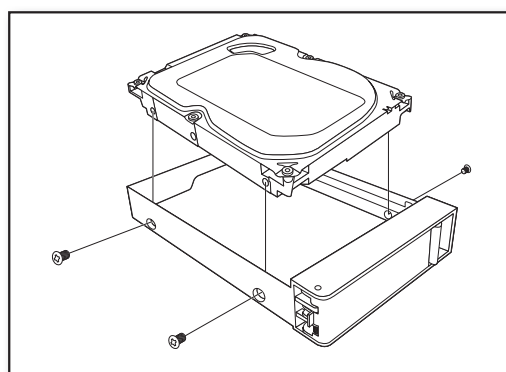
1. Prima o botão <PUSH> na frente para abrir a tampa frontal.



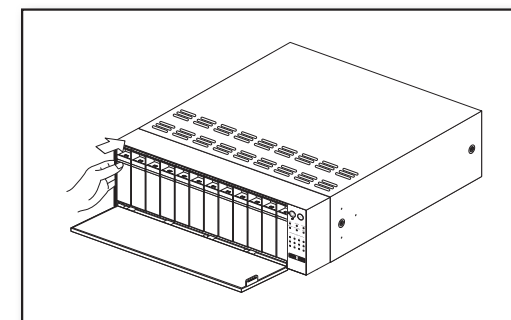
2. Após premir o botão azul no suporte do HDD, puxe-o manualmente para separar o suporte do HDD do corpo principal.



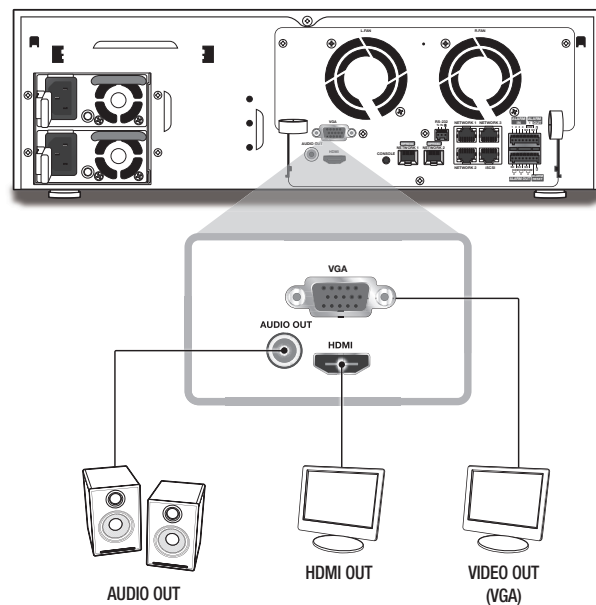
3. Monte um HDD no suporte do HDD e aparafuse-o usando os parafusos fornecidos.



4. Após montar o HDD no suporte, empurre o suporte para o corpo principal e feche a tampa frontal.



CONEXÃO A UM DISPOSITIVO EXTERNO

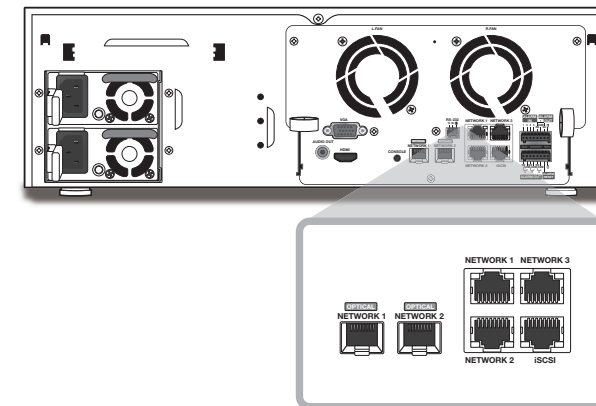


- ! ■ Uma fonte de alimentação não classificada ou imprópria pode causar danos ao sistema. Assegure-se de usar somente a fonte de alimentação classificada antes de pressionar o botão POWER.

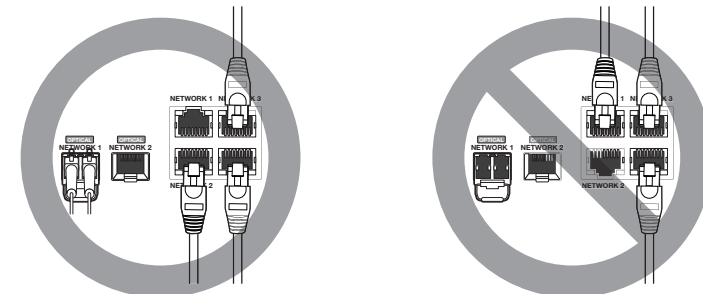
CONECTANDO UM MÓDULO ÓTICO

A potência nominal para um módulo óptico é CC 3,3V 0,25A.

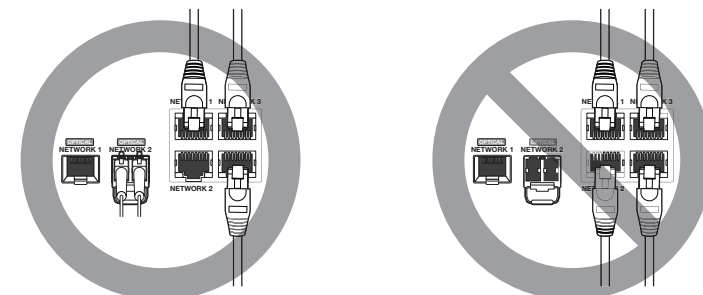
- Quando um módulo óptico é instalado, o uso da porta UTP é limitado.
■ Instale um módulo óptico apenas quando é necessário.



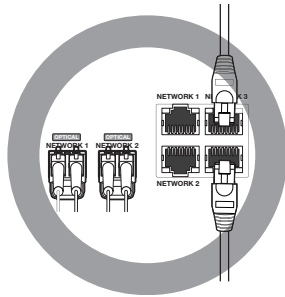
1. A [OPTICAL NETWORK1] é uma porta que é compartilhada com a [NETWORK1].



2. A [OPTICAL NETWORK2] é uma porta que é compartilhada com a [NETWORK2].



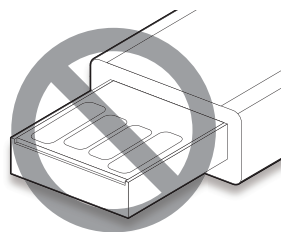
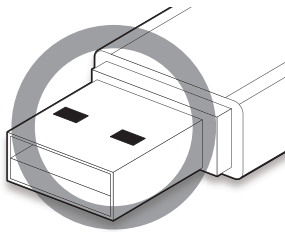
3. A [OPTICAL NETWORK1/2] é uma porta que é compartilhada com a [NETWORK1/2].



CONECTANDO O USB

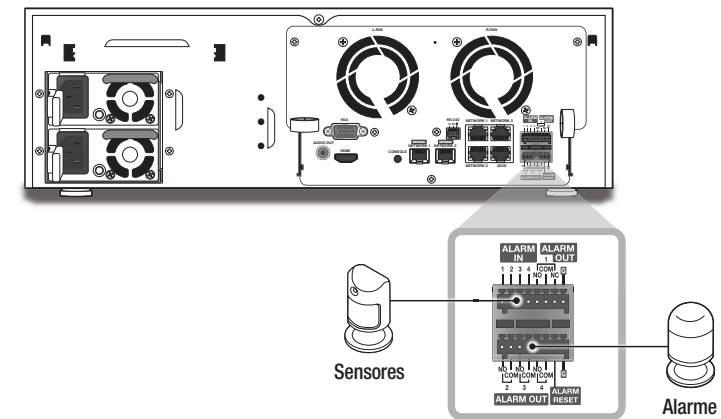
1. Existe uma porta USB na parte frontal do produto.
2. Você pode conectar um USB HDD, memória USB ou mouse à porta USB.
3. Se o seu HDD USB estiver conectado ao sistema, ele pode ser detectado e configurado com os seguintes passos em "Menu > Disposit. > Dispositivo de armazenamento" do Manual do usuário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

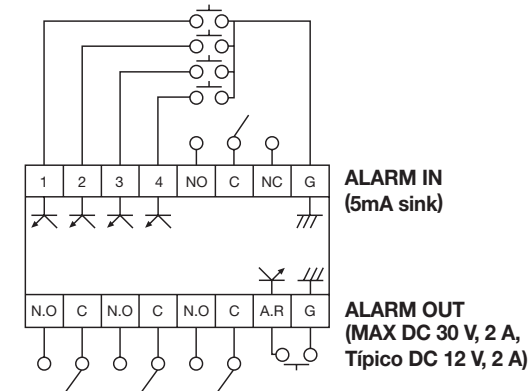


CONECTANDO A SAÍDA/ENTRADA DE ALARME

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



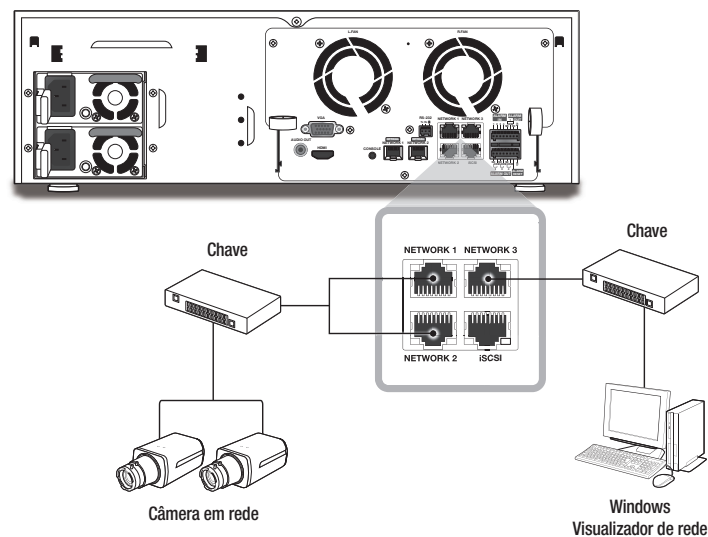
- ALARM IN 1 ~ 4 : Porta de entrada de alarme
- ALARM RESET : Ao receber um sinal Alarm Reset, o sistema cancela a entrada de alarme atual e continua a detecção.
- ALARM OUT 1 ~ 4 : Porta de saída de alarme



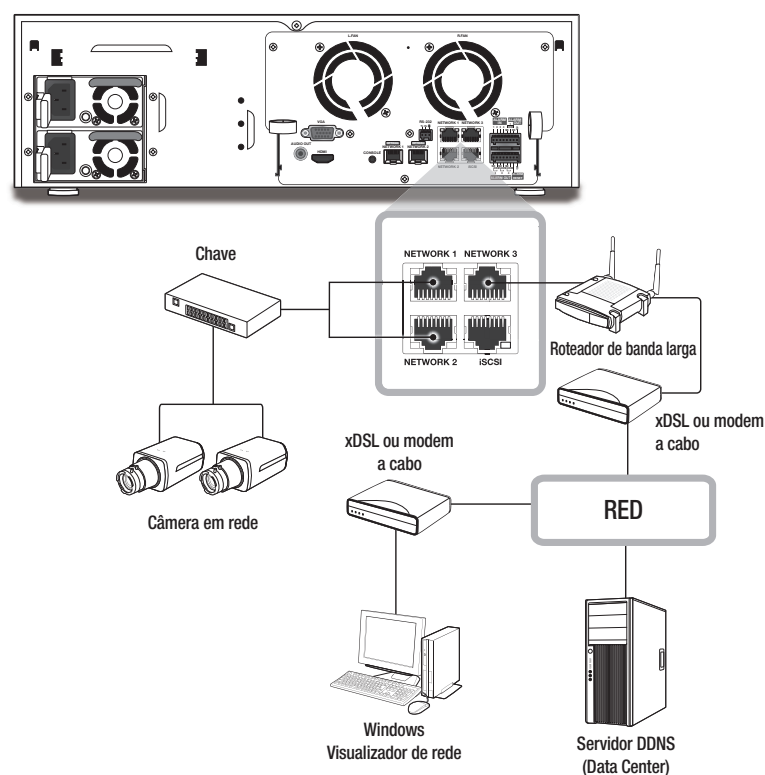
CONECTANDO A REDE

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

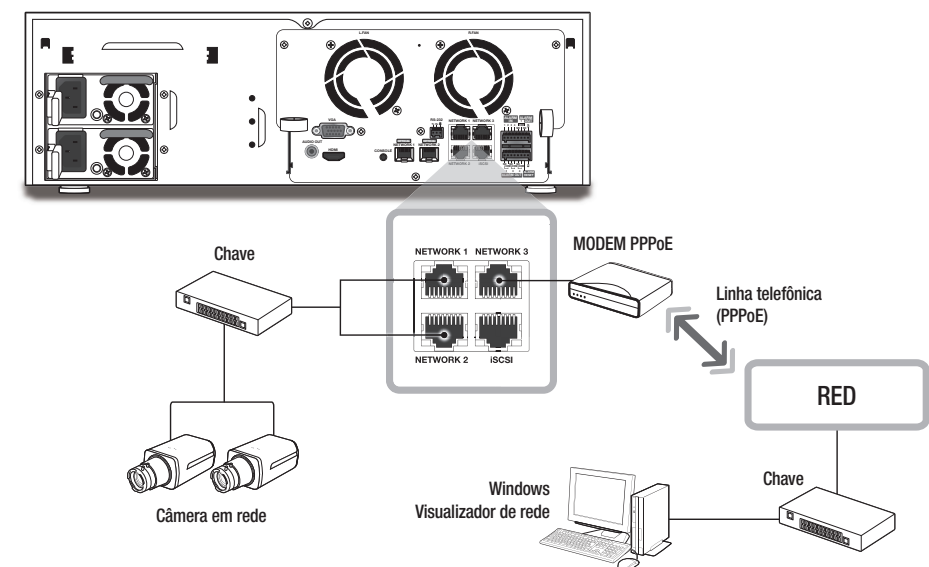
Conexão de rede via Ethernet (10/100/1000BaseT)



Conexão de rede via roteador

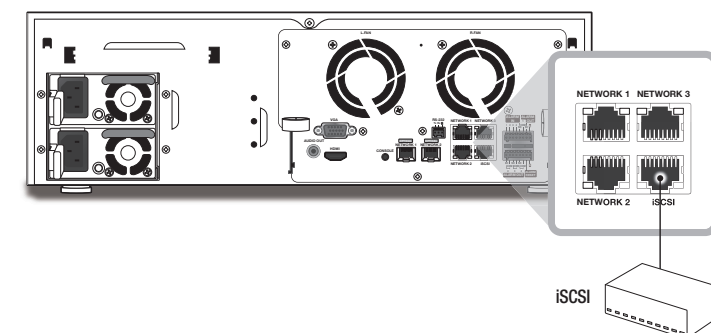


Conectar à Internet através de PPPoE

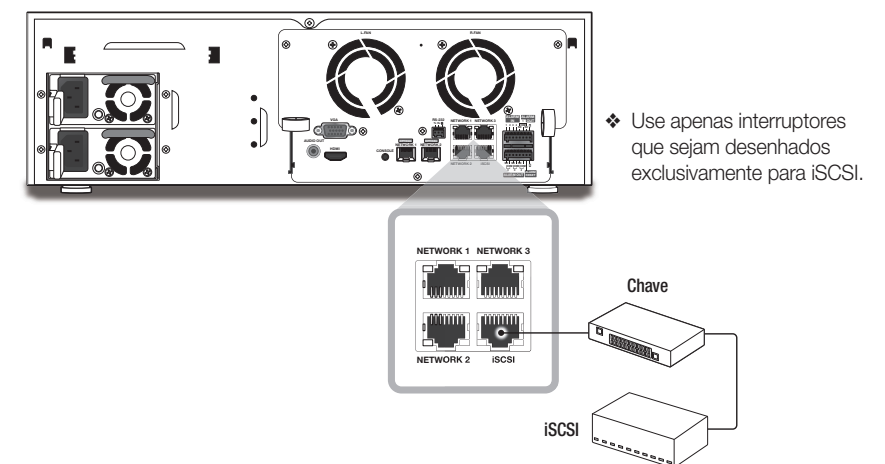


Conectar iSCSI

Conectar diretamente a NVR



Pode usar um interruptor para a conexão



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(1920fps)	
Desempenho			
Sistema Operativo	Incorporado	Linux	
Gravar	Compressão	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Largura de banda de Gravação	Máx. 250Mbps (Não RAID)	Máx. 400Mbps (RAID-5/6)
	Resolução	CIF ~ 12MP	
Pesquisar e Reproduzir	Largura de Banda de Reprodução	Máx. 32Mbps(16 canais em simultâneo)	
	Usuário	Máx. 4 Usuários (Local 1, Remoto 3)	
	Reprodução simultânea	Máx. 16 canais (Monitor Local, CMS)	
	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	12 (Máx. 96TB, Não-RAID Mode)	
	Externo	Armazenamento iSCSI (Máx. 192TB)	
	RAID	RAID-5/6(Tamanho da Matriz : 6-HDD x 2 Matrizes)	
Cópia de Segurança	Backup de arquivo	BU/Exe(GUI), JPG/AVI(Rede)	
	Função	Reprodução Multicanal (Até 16 Ch) Exibição Data-Hora/Título	

Item		Detalhes
Sensor	E/S	4/4 (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) x4, SFP 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		Máx. 400Mbps
Máx. de usuários remotos		Pesquisa (3)/Unicast ao vivo (10)/Multicast(20)
Versão IP		IPv4/v6
Segurança		Filtragem de endereço IP, Registro de acesso de usuário, 802.1x, encriptação, Regra 2Homens
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)	Apoio SDK/CGI(SUNAPI) para integração de VMS de terceiros
Funções		
PTZ	Controle	Via GUI, Visualizador Web, SPC-2000
	Predefinir	300 Predefinições
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)

Item		Detalhes
Redundância	Falha	N+1
	ARB	Sim
Controle do Sistema		Mouse, Web, SPC-2000(Controlador)
Indicador/Interface		
Frente	Indicador	Indicador LED de Estado - Ação do HDD(12), RAID Status(1), Alarme(1), Alimentação(1), Gravação(1), Backup(1), Rede(1)
Conectores	VGA	Sub : 1 EA (Suporta modo tela ao vivo até 32 divisões)
	HDMI	Principal: 1 EA (Ambos suporta Ao vivo / PB / Configuração) - Suporta até 4K (3840 x 2160, Modo monitor único com 64 divisões)
	Áudio	Saída (1EA, RCA, Linha)
	Ethernet	RJ-45 4EA (LAN/WAN, 1Gbps), 1000M SFP 2ea
	Alarme	1) Entrada (4EA, Borne) 2) Reinicialização de alarme(1EA) 3) Saída (4EA, Borne) - Relé Saída1(NO/NC/COM) - Relé Saída2~4(NO/COM)
	USB	2EA(Frente 2)
	Armazenamento	iSCSI
	Serial	RS-232C
	Repor	Comutador (1EA)
	Cabo de Alimentação	Entrada 2EA AC

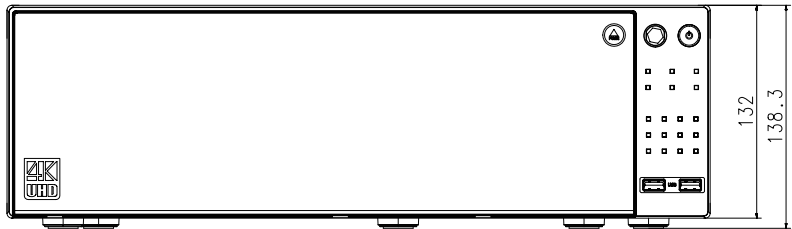
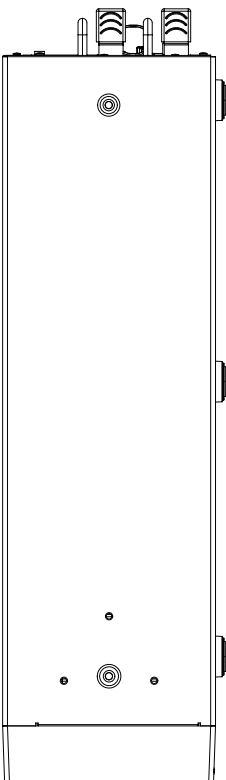
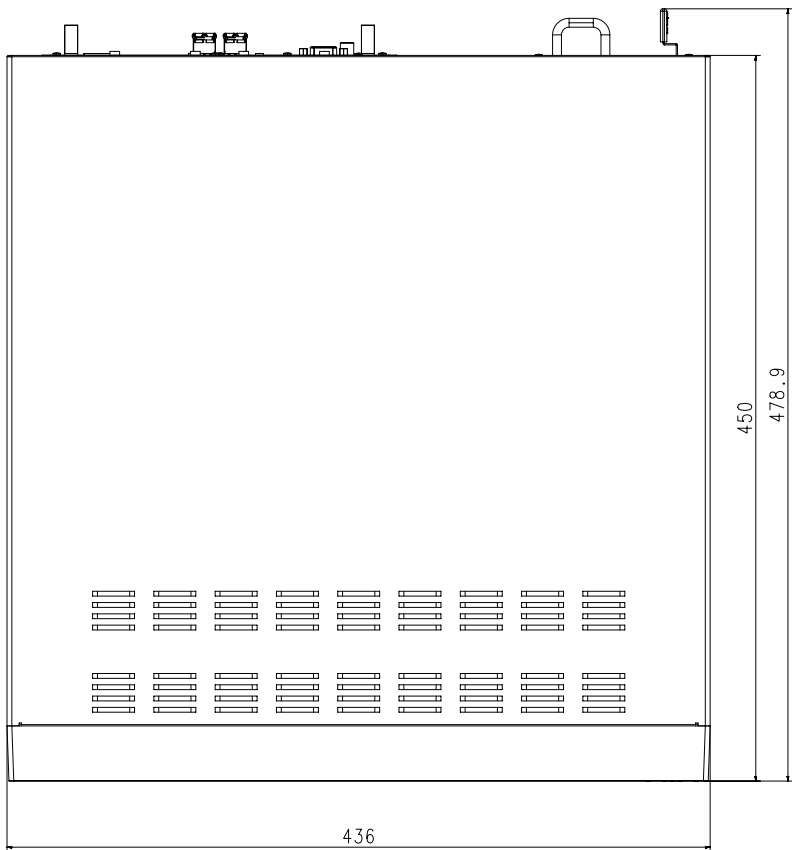
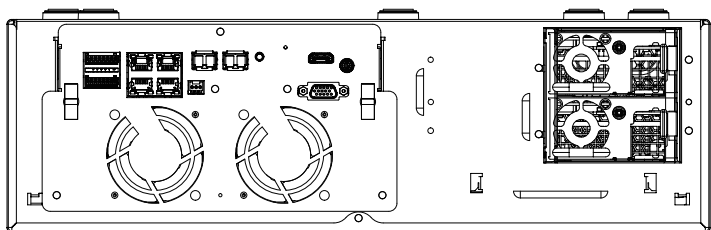
Item		Detalhes
Sistema		
Registro	Lista de registros	Máx. 20,000 (cada Registro do Sistema, Registro de Evento)
Ambiental		
Temperatura de Operação / Umidade		+0°C a +40°C (+32°F to +104°F)
Umidade		20% ~ 85% RH
Elétrica		
Alimentação		100 a 240 VAC ±10%; 50/60 Hz, 3~1.5A (SMPS dual)
Consumo de Energia		Máx. 250W (853 BTU com HDD 12ea)
Mecânica		
Cor / Material		Preto / Metalizado
Dimensões (LxAxP)		L436.0 x A132.0 x P450.0mm (17.17" x 5.2" x 17.72") (3U)
Peso		Aprox. 11Kg (24.3 lb, HDD não incluído)

Especificações de desempenho de gravação para o estado do HDD.

Unidade: (Mbps)

Método de armazenamento	Rcv	Salvar			Transmissão remota	reprod.
		Interno		iSCSI		
		Normal	Construindo			
Interno (RAID5)	400	400	320	300	300	32
Interno (RAID6)	400	400	320	300	300	32
HDD único	400	250	-	250	300	32
iSCSI	300	-	-	300	300	32

※ O desempenho de armazenamento de Internet/iSCSI é baseado em um cenário de uso individual



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Version 2, June 1991

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Version 1.1

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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 rcvbuf 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, HP/UX 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> ntpttrace utility

32. [35]Tom Moore <tmoore@fivel.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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