

WISeNeT

GRABADOR DE VÍDEO DE RED

Manual de especificación del producto

PRN-4011



Grabador De Vídeo De Red

Manual de especificación del producto

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- ❖ El diseño y las especificaciones están sujetos a cambio sin aviso.
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- ❖ La ID inicial del administrador es “admin” y la contraseña debe establecerse al iniciar sesión por primera vez.
Por favor, cambie su contraseña cada tres meses para proteger la información personal y para evitar los daños de un posible robo de información.
Por favor, tenga en cuenta que el usuario es responsable de la seguridad y de otros problemas derivados de la mala administración de la contraseña.

INSTRUCCIONES IMPORTANTES DE SEGURIDAD

Lea estas instrucciones de funcionamiento detenidamente antes de utilizar la unidad.
Siga las instrucciones de seguridad que se incluyen a continuación.
Tenga estas instrucciones de funcionamiento a mano para referencia futura.

- 1) Lea estas instrucciones.
- 2) Conserve estas instrucciones.
- 3) Preste atención a todas las advertencias.
- 4) Siga todas las instrucciones.
- 5) No utilice este aparato cerca del agua.
- 6) Limpie el área contaminada en la superficie del producto con un paño seco y suave o un paño húmedo. (No utilice detergente o productos cosméticos que contengan alcohol, disolventes o tensioactivos o constituyentes de aceites, ya que pueden deformar o dañar el producto).
- 7) No obstruya los orificios de ventilación. Instale de acuerdo con las instrucciones del fabricante.
- 8) No lo instale cerca de ninguna fuente de calor, como radiadores, registradores de calor, hornos u otros aparatos (incluidos amplificadores) que generen calor.
- 9) No ignore el fin de seguridad de los enchufes polarizados o con toma de tierra. Un enchufe polarizado tiene dos puntas con una más ancha que la otra. Un enchufe con toma de tierra tiene dos puntas y una tercera hoja de toma de tierra. La punta ancha o la tercera hoja existe por motivos de seguridad. Si no cabe en la toma, consulte a un electricista para sustituir la toma obsoleta.
- 10) Proteja el cable de alimentación para no pisarlo ni producirle pinzamientos, especialmente en los enchufes, en sus respectivos receptáculos y en los puntos de salida del aparato.
- 11) Utilice únicamente conexiones o accesorios especificados por el fabricante.
- 12) Utilice sólo las mesitas con ruedas, soportes, trípodes o mesas recomendadas por el fabricante o vendidas con el aparato. Cuando se utilice una mesita con ruedas, tenga cuidado al mover la mesita con ruedas junto con el aparato para evitar daños por vuelco.
- 13) Desenchufe este aparato durante tormentas eléctricas o cuando no se utilice durante largos períodos de tiempo.
- 14) Consulte las reparaciones con personal técnico cualificado. El servicio es necesario cuando el aparato se haya dañado de alguna forma, cuando el cable o el enchufe de suministro eléctrico estén dañados, cuando se haya derramado líquido sobre el aparato o hayan caído objetos en su interior, el aparato se haya expuesto a la lluvia o humedad, no funcione normalmente o se haya caído.



ANTES DE COMENZAR

Este manual proporciona la información operativa necesaria para utilizar el producto y contiene una descripción sobre cada una de los componentes y su función, así como el menú y los ajustes de red.

Ha de tener en cuenta las siguientes advertencias :

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- Este manual no se puede copiar sin el consentimiento previo por escrito de Hanwha Techwin.
- Reclinamos cualquier responsabilidad sobre cualquier pérdida que sufra el aparato debido a que ha sido utilizado de manera incorrecta o que ha incumplido las instrucciones incluidas en este manual.
- Si desea abrir la carcasa de su sistema para comprobar si hay errores, póngase en contacto con el experto de la tienda en la que compró el producto.
- Antes de añadir una unidad de disco duro o de almacenamiento externo (memoria USB, disco duro USB, etc.), compruebe si es compatible con este producto. Para la lista de compatibilidad, póngase en contacto con el distribuidor.

Advertencia

Pilas

Colocar una pila incorrecta en el aparato puede provocar una explosión. Por lo tanto, debe utilizar el mismo tipo de pila que la que está ya en el aparato.

A continuación se encuentran las especificaciones de la pila que está utilizando en este momento.

- Voltaje normal : 3 V
- Capacidad normal : 210 mAh
- Carga estándar continua : 0.4 mA
- Temperatura de funcionamiento : -20°C ~ +60°C (-4°F ~ +140°F)

Precaución

- Conecte el cable de alimentación a la toma de corriente con toma de tierra.
- El enchufe de corriente se utiliza como un dispositivo de desconexión y debe estar a mano en todo momento.
- No debe exponer las baterías a calor excesivo, a la luz directa del sol ni al fuego, etc.
- Existe riesgo de explosión si se sustituye la batería por una de un tipo incorrecto. Deshágase de las baterías utilizadas de acuerdo con las instrucciones del fabricante.
- Cuando el HDD llega al final de su vida útil, los datos de vídeo almacenados pueden dañarse y no poder recuperarse.
- El LED de estado de la unidad de HDD en la parte frontal del sistema parpadea continuamente para indicar que la conexión del sistema a la unidad de disco duro es normal. Compruebe el LED de estado de la unidad de HDD con regularidad para ver si parpadea continuamente. "La grabación puede no ser posible cuando hay una falla en el HDD. Controle periódicamente el estado de la grabación y haga una copia de seguridad de los datos importantes con regularidad ."

Apagado del sistema

Desconectar la corriente cuando el programa está en funcionamiento o realizar acciones no permitidas puede causar daños en el disco duro en el aparato en sí. También puede provocar una disfunción en el disco duro mientras se utiliza este producto.

Pulse <Aceptar> en la ventana emergente de cierre del sistema y retire el cable de alimentación para garantizar un apagado seguro.

Es posible que quiera instalar un sistema de alimentación ininterrumpida (S.A.I.) para que el funcionamiento sea seguro y evitar los daños provocados por un corte de suministro inesperado. (Si tiene alguna consulta en relación a estos sistemas, consulte con su distribuidor de S.A.I.)



- Si se apaga de forma anormal, es posible que el reinicio tarde más tiempo en recuperar los datos del disco duro para que funcione correctamente.

Temperatura de funcionamiento

El intervalo de temperatura en el que este producto funciona correctamente es de 0°C ~ 40°C (32°F ~ 104°F). Es posible que este producto funcione correctamente si lo pone en funcionamiento después de haber estado guardado durante mucho tiempo en un lugar cuya temperatura es inferior a la de los intervalos recomendados. Cuando utilice el aparato después de un largo periodo de tiempo en el que ha estado sometido a bajas temperaturas, coloque el aparato a temperatura ambiente durante un tiempo y enciéndalo. El intervalo de temperaturas de 5°C ~ 55°C (41°F ~ 131°F) está especialmente indicado para el disco duro integrado con el producto. Como ya se ha dicho anteriormente, es posible que el disco duro no funcione a una temperatura inferior a la recomendada.

Puerto Ethernet

Este equipo es para utilizarse en interiores y todos los cableados de comunicaciones están limitados para utilizarse en el interior de edificios.

Precauciones de seguridad

La ID inicial del administrador es “admin” y la contraseña debe establecerse al iniciar sesión por primera vez. Por favor, cambie su contraseña cada tres meses para proteger la información personal y para evitar los daños de un posible robo de información. Por favor, tenga en cuenta que el usuario es responsable de la seguridad y de otros problemas derivados de la mala administración de la contraseña.

Uso de símbolos gráficos

Los símbolos gráficos colocados en el equipo, ya sea requisito o no de esta norma, deben estar de conformidad con la norma IEC 60417 o ISO 3864-2 o ISO 7000, si está disponible. En ausencia de símbolos adecuados, el fabricante puede diseñar símbolos gráficos específicos. Los símbolos colocados en el equipo se explicarán en el manual del usuario.

Símbolo	Publicación	Descripción
	IEC60417, No.5032	Corriente alterna

Los productos de NVR son compatibles con cada función

Función	Productos
Ventilador	PRN-4011
RAID	PRN-4011
iSCSI	PRN-4011
Joystick	PRN-4011
Monitor doble	PRN-4011
Redundancia en el suministro de alimentación	PRN-4011
Conmutación por error	PRN-4011

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CARACTERÍSTICAS

El producto graba en el disco duro el vídeo y el audio de las cámaras de red y permite su reproducción desde el disco duro.
También proporciona un entorno de vigilancia remoto para vídeo y audio en la red utilizando un ordenador remoto.

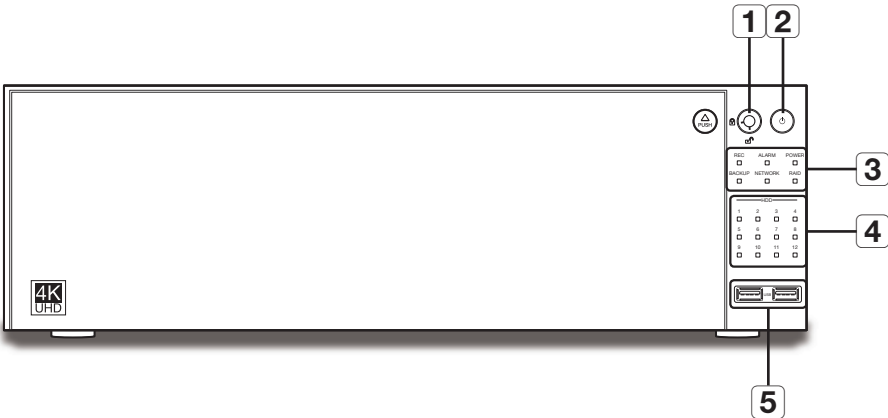
- Interfaz de usuario sencilla para el usuario
- Es compatible con una gama de resoluciones de cámaras 4K (3840X2160, 4096X2160, 4000X3000)
- Genera una imagen 4K de alta definición a través de HDMI
- Decodificación de 64 pantallas divididas
- Admite la salida de monitor dual (expandir, duplicar)
- Admite múltiples contraseñas
- Grabación y reproducción de vídeo
- Grabación y reproducción de audio
- Admite el estándar ONVIF Profile S y los protocolos RTP / RTSP
- Visualización del estado de funcionamiento del DD mediante HDD SMART
- Sobrescritura de DD permitida
- Copia de seguridad utilizando protocolos USB 2.0 y DD externo
- Reproducción simultánea de 16 canales
- Varios modos de búsqueda (Tiempo, Evento, Inteligente, Texto, Copia de seguridad, ARB)
- Diversos modos de grabación (normal, evento, grabación programada)
- Entrada / salida de alarma
- Función Control remoto mediante Windows Network Viewer
- Vigilancia en directo de la cámara de red
- Función de asistente para la instalación (configuración fácil)
- Admite múltiples perfiles de visualización remota
- Admite ARB
- Admite la conmutación por error
- Función utilizada para establecer el periodo de almacenamiento de cada canal

Descripción General

Desembale el producto y colóquelo sobre una superficie plana o en el lugar en el que se va a instalar.
Compruebe que además de la unidad principal se incluyan los elementos siguientes.

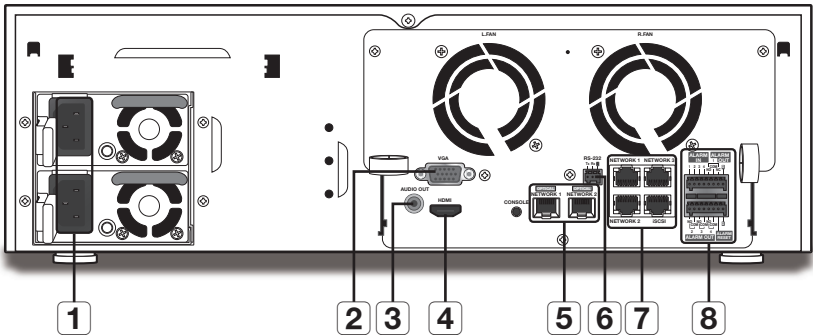
NVR	Ratón	Cable de alimentación
Manual rápido	Bloque de terminales	Montaje en estantes
Tornillo de montaje en estantes	Tornillo de fijación HDD	Clave de bloqueo de puerta de HDD

NOMBRES DE COMPONENTES Y FUNCIONES (PARTE FRONTAL)



Nombre de componente		Funciones
1	Clave de bloqueo de puerta de HDD	Se trata de un dispositivo de bloqueo utilizado para restringir el acceso al HDD. Utilice la clave de producto proporcionada al comprar el producto.
2	Alimentación	Se utiliza para encender o apagar.
3	Indicador LED	REC : Se ilumina cuando la grabación se encuentra en curso. ALARM : Se ilumina cuando se produce un evento. POWER : Muestra el estado encendido/apagado de la alimentación. BACKUP : Aparece cuando la copia de seguridad se encuentra en curso. NETWORK : Muestra el estado de la conexión de red y de la transferencia de datos. RAID : Muestra el funcionamiento del RAID en curso.
4	HDD	Muestra el acceso normal al DD. El LED se ilumina cuando se accede al disco duro.
5	USB	Conecta los dispositivos USB.

NOMBRES DE COMPONENTES Y FUNCIONES (PARTE POSTERIOR)



Nombre de componente		Funciones
1	Alimentación	Terminal al que se conecta la alimentación. - Con la fuente de alimentación dúplex, puede funcionar correctamente incluso si se conecta una sola fuente de alimentación. Sin embargo, para mayor fiabilidad, se recomienda el uso de fuentes de alimentación independientes. - Si se produce un problema durante el movimiento, SMPS, la alarma sonará. (Se puede desactivar la alarma pulsando el botón redondo de color verde) - Incluso si la fuente de alimentación no está conectada, el LED del botón de SMPS verde y el ventilador aplicables puede ser operados.
2	VGA	Puerto de salida de señal de vídeo VGA.
3	AUDIO OUT	Puerto de salida de señal de audio (toma RCA).
4	HDMI	Puerto de conector HDMI.
5	OPTICAL NETWORK 1/2	Puerto óptico de comunicaciones I/F.
6	RS-232C	Terminal del cable de comunicación serial.
7	NETWORK 1	Puerto para conexiones de la cámara; recibe el vídeo de una cámara.
	NETWORK 2	Puerto para conexiones de la cámara; recibe el vídeo de una cámara.
	NETWORK 3	Puerto utilizado para enviar vídeo al visor web.
	iSCSI	Puerto para la conexión con el iSCSI externo.
8	ALARM	- ALARM IN : puertos de entrada de alarma. (1~4 CH) - ALARM RESET : puerto de reinicio de alarma. - ALARM OUT : puertos de salida de alarma. (1~4 CH)

[CONSOLE] se ha diseñado sólo para servicios de reparación.

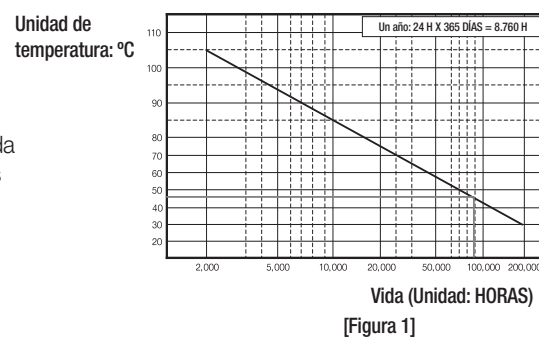
Antes de utilizar el producto tenga en cuenta la siguiente información.

- No utilice el producto en exteriores.
- No derrame agua ni líquidos en la parte de las conexiones del aparato.
- No someta al sistema a fuerza excesiva ni a impactos.
- No tire del cable de alimentación con energía.
- No desmonte el aparato por sí mismo.
- No sobrepase la tensión nominal de entrada ni de salida.
- Utilice únicamente un cable de alimentación certificado.
- Para el producto con toma de tierra de entrada, utilice un enchufe con toma de tierra.

COMPROBACIÓN DEL ENTORNO DE INSTALACIÓN

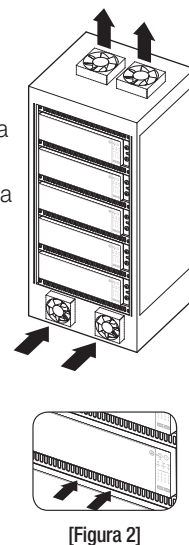
El producto es un dispositivo de seguridad de excelente calidad que está equipado con un disco duro de gran capacidad y con otras placas de circuito importantes.

Tenga en cuenta que una temperatura interna excesiva del producto puede causar un fallo en el sistema o reducir la vida del producto (consulte la figura de la derecha). Recuerde las siguientes instrucciones antes de instalar el producto.



Al montar el producto en un bastidor, siga las siguientes instrucciones.

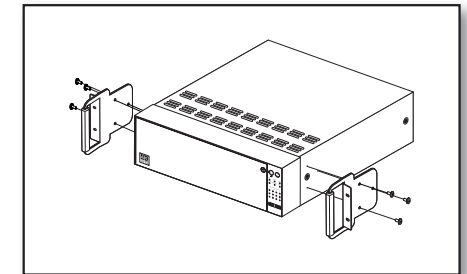
1. Asegúrese de que el interior del bastidor no esté sellado.
2. Asegúrese de que el aire circule por la entrada y salida como se muestra en la imagen.
3. Si apila los productos u otros dispositivos de montaje en bastidor como se muestra en la figura 2, asegure la ventilación en la sala o instale un sistema de ventilación.
4. Para la convección natural del aire, coloque la entrada en la parte inferior del bastidor y la salida en la parte superior.
5. Se recomienda encarecidamente instalar un motor con ventilador en la entrada y en la salida para facilitar la circulación del aire. (Coloque un filtro en la entrada para filtrar el polvo o sustancias extrañas.)
6. Mantenga la temperatura dentro del bastidor o en las áreas circundantes entre 0°C y 40°C (32°F y 104°F) como se muestra en la figura 1.



INSTALACIÓN DEL BASTIDOR

Instale el bastidor con soporte como se muestra en la figura y, a continuación, fije los tornillos en ambos lados.

- Fije los tornillos para que no se aflojen por causa de las vibraciones.



ADICIÓN DE UN DD

Asegúrese de desenchufar el cable de alimentación de la toma de corriente para evitar posibles descargas eléctricas, daños personales o daños en el producto.

Consulte a su proveedor para obtener información adicional sobre la instalación del DD ya que una instalación defectuosa o unos ajustes inadecuados pueden causar daños en el producto.

- Número de discos duros admitido : admite hasta 12 discos duros
- Asegúrese de desenchufar el cable de alimentación de la toma de corriente antes de continuar con la instalación.



Precauciones para evitar pérdida de datos (cuidados del disco duro)

Preste atención de forma que no se dañe el interior del disco duro.

Antes de añadir un disco duro, compruebe la compatibilidad con este producto.

El disco duro es vulnerable a averías debido a su naturaleza especialmente sensible contra golpes durante su funcionamiento.

Asegúrese de que el disco duro no sufra golpes.

No nos hacemos responsables de ningún daño que sufra el disco duro por negligencia del usuario o uso indebido.

Casos en que puede dañarse el disco duro o los datos grabados

Para minimizar el riesgo de pérdida de datos en discos duros dañados, haga una copia de seguridad de los datos con la mayor frecuencia posible.

Si el disco duro sufre golpes al desmontar o al instalar, es posible que se dañen los datos en él almacenados.

Un fallo repentino de alimentación o apagar el producto mientras el disco duro esté funcionando, puede dañar la unidad de disco duro.

El disco duro o los archivos almacenados en el interior pueden dañarse si se mueve la carcasa principal o se golpea mientras su disco duro se encuentra realizando una operación.

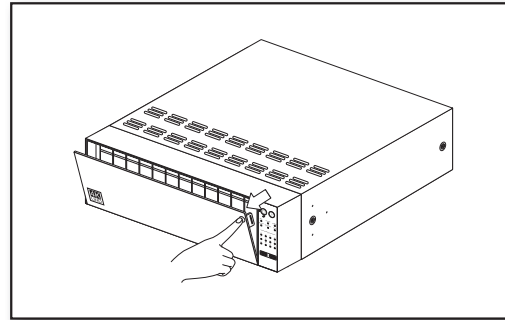
Precauciones al añadir un DD

1. No aplique una fuerza excesiva a la unidad HDD.
2. Preste atención y no pierda los tornillos de montaje ni los accesorios.
 - Si no se colocan los tornillos o los accesorios, el producto puede estropearse o puede dejar de funcionar correctamente.
3. Compruebe la compatibilidad del disco duro antes de añadirlo.
 - Póngase en contacto con el distribuidor más cercano para obtener la lista de dispositivos compatibles.
4. Si desea sustituir o añadir un HDD, en primer lugar, póngase en contacto con su distribuidor o con nuestro servicio al cliente.
 - Sólo el administrador del producto puede abrir la puerta del HDD en el lado frontal.

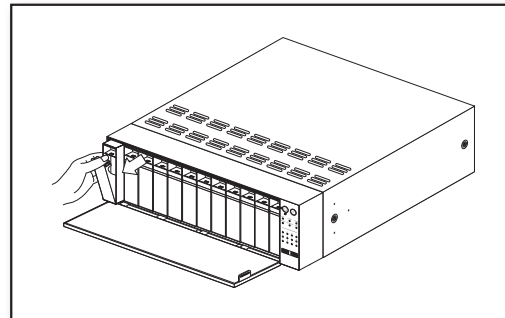
Instalación del disco duro

- !** Si, además de la unidad de HDD instalada originalmente, va a añadir a este producto un HDD nuevo o usado previamente, formatee el HDD nuevo de forma manual en la instalación antes de su uso. Para aprender a formatear, consulte “**Dispositivo/Formato**” en el Manual del usuario de Wisenet NVR.
- Para el reemplazo o la instalación de un HDD adicional debe ponerse en contacto con su distribuidor o con el centro de atención al cliente.

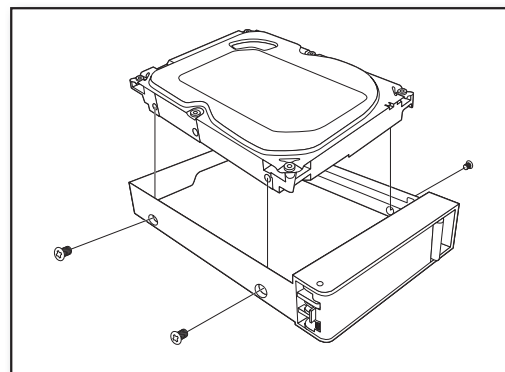
1. Presione el botón <PUSH> en la parte frontal para abrir la cubierta frontal.



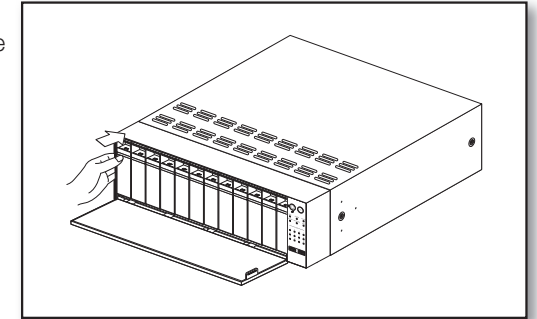
2. Después de presionar el botón azul del soporte del HDD, extraiga manualmente para separar el soporte del HDD del cuerpo principal.



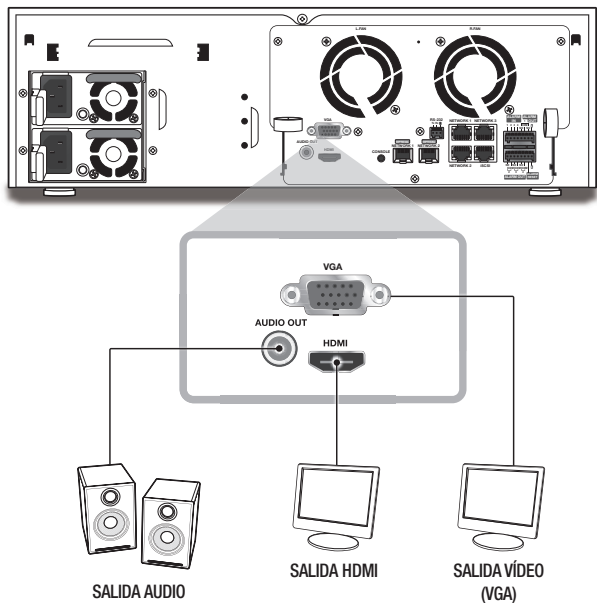
3. Monte un HDD en el soporte del HDD y atornille usando los tornillos suministrados.



4. Una vez que el HDD está montado en el soporte, empuje el soporte dentro del cuerpo principal y cierre la cubierta frontal.



CONEXIÓN A UN DISPOSITIVO EXTERNO

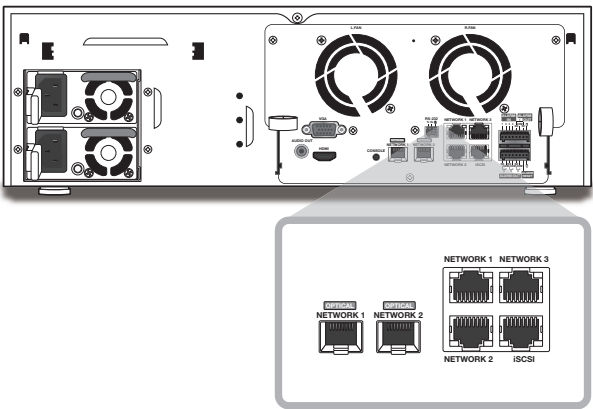


! Una fuente de alimentación inadecuada o con un valor nominal incorrecto puede causar daños en el sistema. Asegúrese de utilizar sólo la fuente de alimentación nominal antes de pulsar el botón de ALIMENTACIÓN.

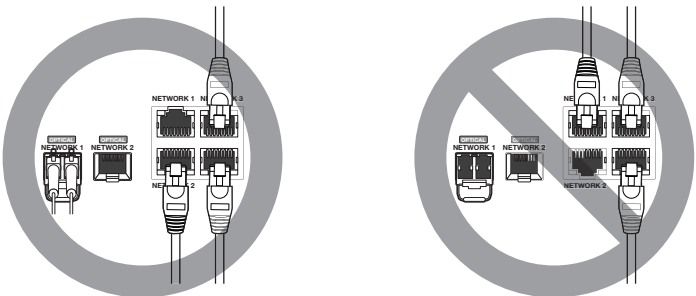
CONEXIÓN DE UN MÓDULO ÓPTICO

La potencia nominal de un módulo óptico es CD 3,3V 0,25A.

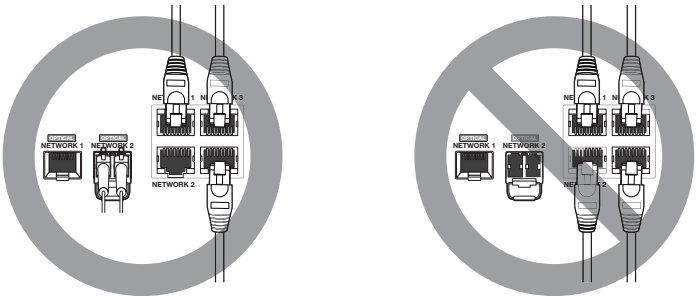
- Cuando se instala un módulo óptico, se limita el uso del puerto UTP.
- Instale un módulo óptico sólo cuando sea necesario.



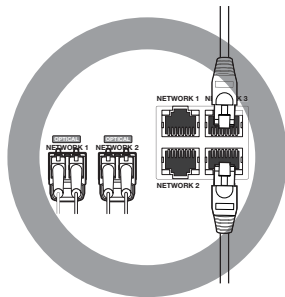
1. [OPTICAL NETWORK1] es un puerto que se comparte con [NETWORK1].



2. [OPTICAL NETWORK2] es un puerto que se comparte con [NETWORK2].



3. [OPTICAL NETWORK1/2] es un puerto que se comparte con [NETWORK1/2].

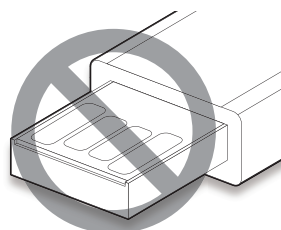
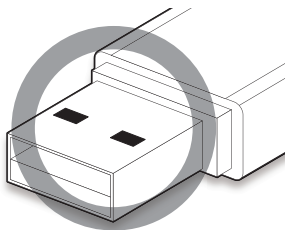


CONEXIÓN DE USB

1. En la parte frontal del producto, hay un puerto USB.
2. Puede conectar al puerto USB un DD USB, una memoria USB o un ratón.
3. HDD is not commonly used in Spanish. However, if the client chooses to use it: En caso de que su HDD USB esté conectado al sistema, puede detectarlo y configurarlo siguiendo los pasos en "Menú > Diispos. > Dispos. almac." del Manual del usuario de Wisenet NVR.
4. El producto admite la función de conexión en caliente que permite conectar y desconectar los dispositivos USB mientras se utiliza el sistema.

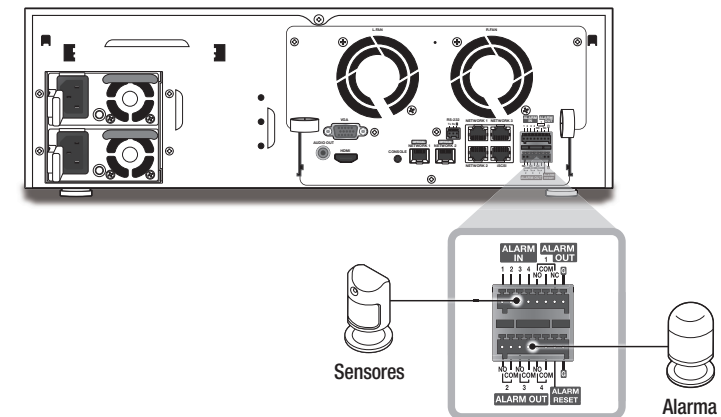


- Si utiliza el dispositivo USB para realizar copias de seguridad, formateéelo con FAT32 en el PC si no se ha formateado en el NVR.
- Algunos dispositivos USB pueden dejar de funcionar debido a problemas de compatibilidad; compruebe el dispositivo antes de utilizarlo.
- Solo los dispositivos de almacenamiento USB que cumplan los estándares (que tengan una cubierta metálica) están garantizados para transferencia de datos.
- En el caso de que los contactos eléctricos del dispositivo USB se hayan desgastado, es posible que la transferencia de datos entre los dispositivos no se realice correctamente.

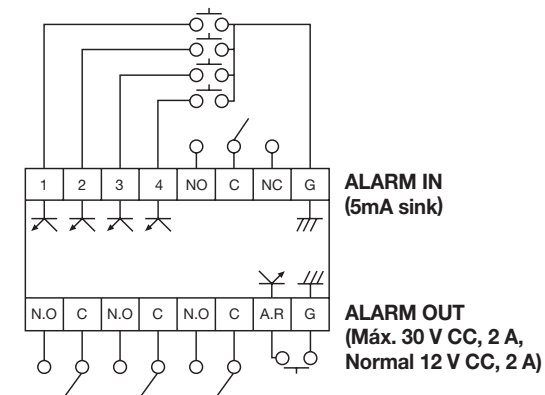


CONEXIÓN DE LA ENTRADA/SALIDA DE ALARMA

El puerto de entrada/salida de alarma en la parte posterior se compone de lo siguiente.



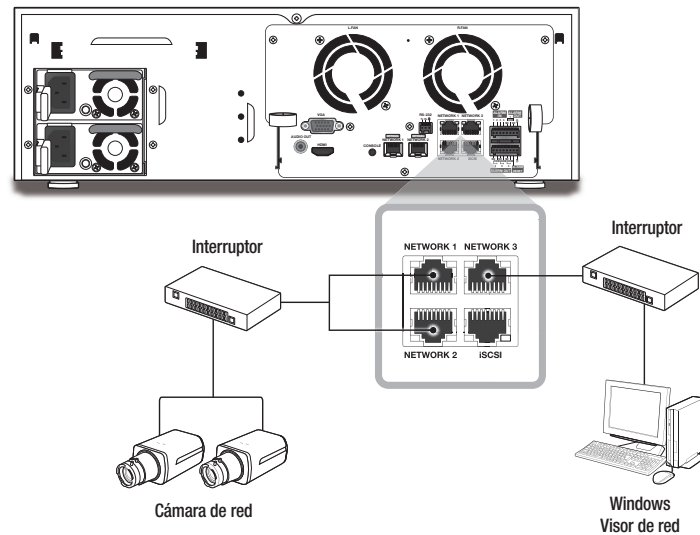
- ALARM IN 1 ~ 4 : puerto de entrada de alarma
- ALARM RESET : al recibir la señal de reinicialización de alarma, el sistema cancela la entrada de alarma actual y reanuda la detección.
- ALARM OUT 1 ~ 4 : puerto de salida de alarma



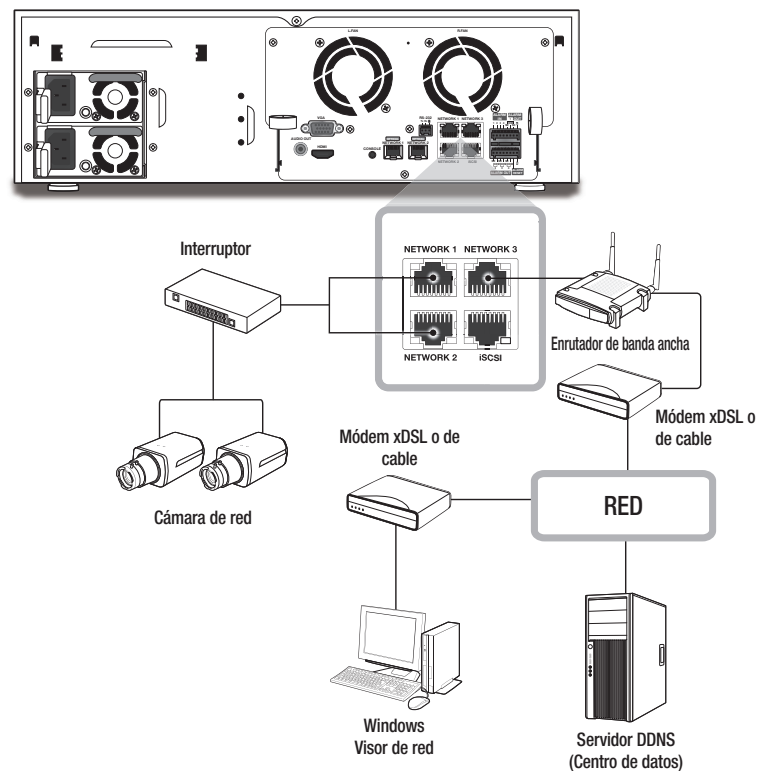
CONEXIÓN DE RED

■ Para obtener más información sobre la conexión de red, consulte "Configuración de red" en el Manual del usuario de Wisenet NVR.

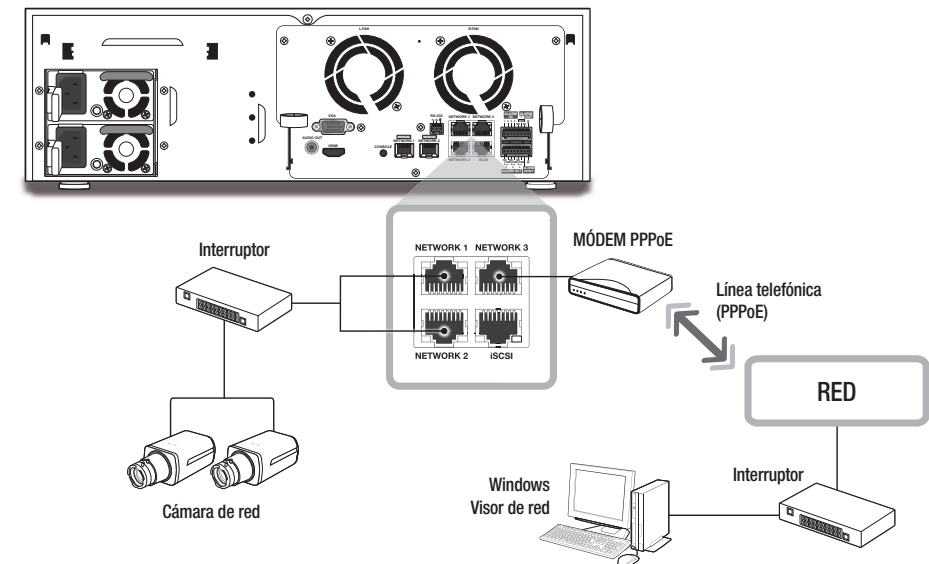
Conexión de red a través de Ethernet (10/100/1000BaseT)



Conexión de red a través de enrutador

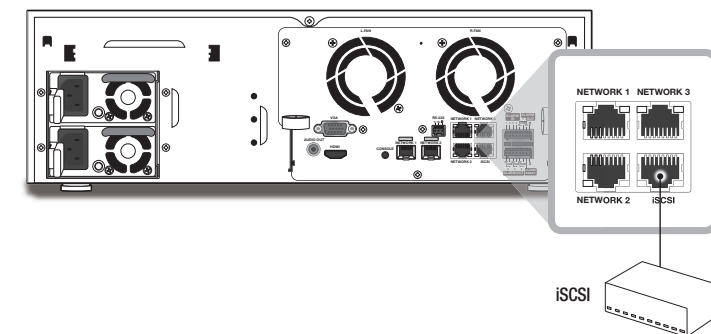


Conexión a Internet a través de PPPoE

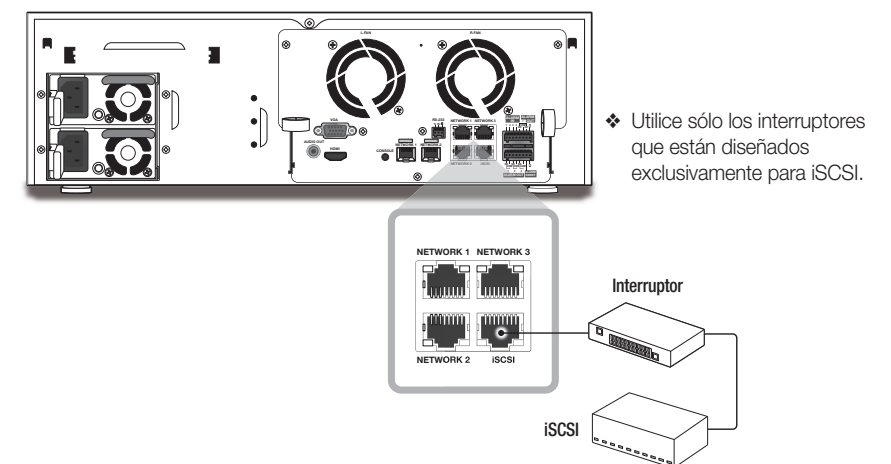


Conexión del iSCSI

Conexión directa al NVR



Se puede usar un conmutador para la conexión



Opción		Detalles	
Pantalla			
Cámara de red	Entradas	Máx. 64 can.	
	Resolución	CIF ~ 12MP	
	Protocolos	Wisenet, ONVIF	
En directo	Visualización local	1x HDMI / 1x VGA Monitor dual	
	Rendimiento	[Monitor local] - 12M(30fps) - 8.3M(120fps) - 1080p(480fps) - 720P(960fps) - D1(1920fps)	
Rendimiento			
Sistema operativo	Incorporado	Linux	
Grabación	Compresión	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Ancho de banda de grabación	Máx. 250 Mbps (Sin RAID)	Máx. 400 Mbps (RAID-5/6)
	Resolución	CIF ~ 12MP	
Búsqueda y reproducción	Ancho de banda de reproducción	Máx. 32 Mbps (16 canales simultáneamente)	
	Usuario	Máx. 4 usuarios (Local 1, Remoto 3)	
	Simultaneous playback	Máx. 16 canales (monitor local, CMS)	
	Resolution	CIF ~ 12MP	
	Dewarping de ojo de pez	WEB / CMS	
	Control de reproducción	Avance/Retroceso rápido/lento, Avanzar un paso/Retroceder un paso	
Almacenamiento	Incorporado	0TB ~ 8TB	
	HDD interno	12 (Máx. 96TB, Modo no RAID)	
	Externo	Almacenamiento iSCSI (Máx. 192 TB)	
	RAID	RAID-5/6(Tamaño de matriz : Matriz 6-HDD x 2)	
Copia de seguridad	Copia de seguridad de archivos	BU/Exe(GUI), JPG/AVI(Red)	
	Función	Reproducción multicanal (hasta 16 canales), fecha-hora / visualización de títulos	

Opción		Detalles
Sensor	E/S	4/4 (NO/NC seleccionable)
Audio	Entrada	64 canales (red)
	Compresión	G.711, G.726, AAC(16/48KHz)
	Comunicación de audio	Bidireccional
Red		
Interfaz		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
Ancho de banda de transmisión		Máx. 400 Mbps
Máx. de usuarios remotos		Búsqueda (3) / En vivo Unicast (10) / Multicast (20)
Versión IP		IPv4/v6
Seguridad		Filtrado de direcciones IP, inicio de sesión de acceso de usuario, 802.1x, encriptación, regla 2Men
Idioma		Inglés, francés, alemán, italiano, español, ruso, turco, polaco, holandés, sueco, checo, portugués, danés, rumano, serbio, croata, húngaro, griego, noruego, finés, coreano, chino, japonés, tailandés
SO		Window 7, 8, 10, Mac OS X(10.8 o superior)
Web Browser		MS IE, Google Chrome, Mac Safari
Software visor	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer
	Compatibilidad CMS	Soporte SDK / CGI (SUNAPI) para la integración de VMS de terceros
Funciones		
PTZ	Control	Vía GUI, Visor Web, SPC-2000
	Ajustes predeterminados	300 ajustes predeterminados
Smartphone	Modelo de apoyo	Android, iOS
	Compatibilidad de protocolos	RTP, RTSP, HTTP, CGI (SUNAPI)
	Control	Vivo(16 canales) : Compatibilidad de perfil múltiple Reproducción(1 canal)
	Máx. de usuarios remotos	Búsqueda (3) / En vivo Unicast (10)

Opción		Detalles
Redundancy	Conmutación por error	N+1
	ARB	Si
Control del sistema		Ratón, Web, SPC-2000(Controlador)
Indicador/Interfaz		
Frontal	Indicador	LED(Indicador de estado) - Actividad HDD(12), Estado RAID(1), Alarma(1), Potencia(1), Grabación(1), Copia de seguridad(1), Red(1)
Conectores	VGA	Sub: 1 EA (admite pantalla en vivo de hasta 32 div.)
	HDMI	Principal : 1 EA (admite en vivo / PB / Configuración) - Admite hasta 4K (3840 x 2160 pixeles, modo monitor único 64 div)
	Audio	Out(1EA, RCA, Line)
	Ethernet	RJ-45 4EA (LAN/WAN, 1Gbps), 1000M SFP 2ea
	Alarm	1) Entrada(4EA, Bloque de terminales) 2) Alarm Reset(1EA) 3) Salida (4EA, Bloque de terminales) - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)
	USB	2EA(Parte Frontal 2)
	Almacenam.	iSCSI
	Serial	RS-232C
	Reinicio	Interruptor (1EA)
	Cable de alimentación	2EA Entrada CA

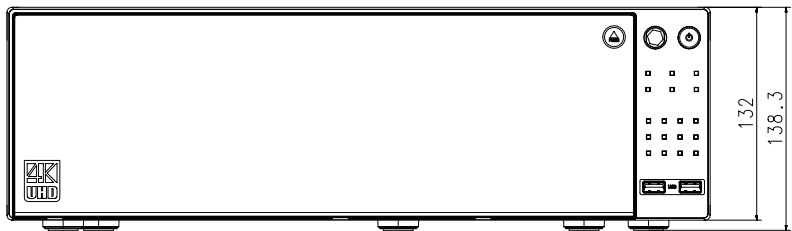
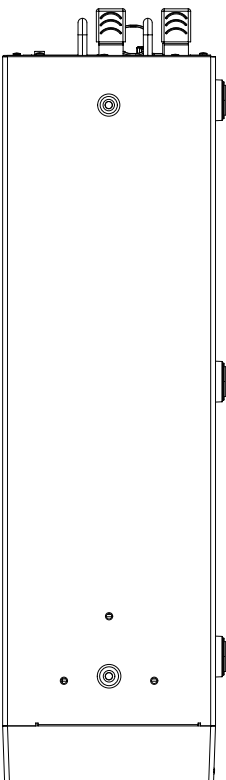
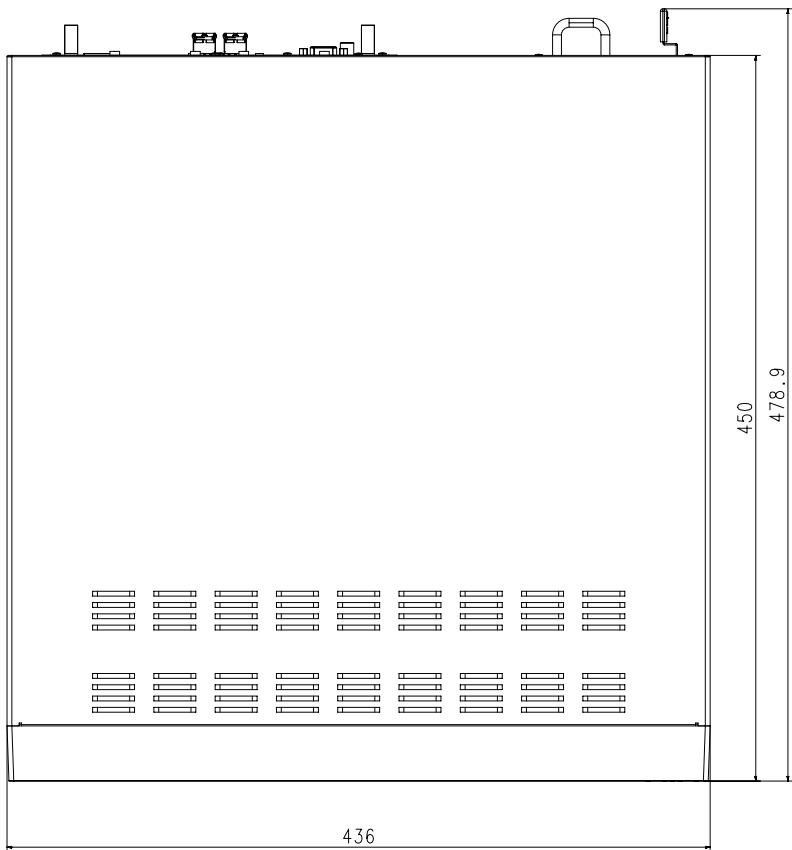
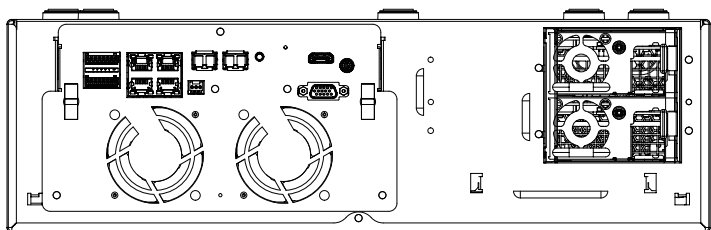
Opción		Detalles
Sistema		
Registro	Lista de registros	Máx. 20,000 (registro de sistema, registro de eventos)
Ambiental		
Temperatura de funcionamiento / Humedad		+0°C to +40°C (+32°F to +104°F)
Humedad		20% ~ 85% RH
Electricidad		
Alimentación		100 ~ 240 VCA ±10%; 50/60 Hz, 3~1.5A (SMPS dual)
Consumo de energía		Máx. 250W (853 BTU con HDD 12EA)
Características mecánicas		
Color / Material		Negro / Metal
Dimensiones (An. x Al. x P.)		An.436.0 x Al.132.0 x P.450.0mm (17.17" x 5.2" x 17.72") (3U)
Peso		Aprox. 11Kg (24.3 lb, HDD no incluido)

Especificaciones de rendimiento de grabación para la condición HDD

Unidad : (Mbps)

Método de almacenamiento	Rcv	Guardar			Transmisión remota	Reproducción
		Interno		iSCSI		
		Normal	Reconstruyendo			
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

※ El rendimiento del almacenamiento iSCSI/Internet se basa en un escenario de uso individual



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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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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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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@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> ACRON 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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Para proteger los recursos naturales y promover el reciclaje, separe las baterías de los demás residuos y reciclelas mediante el sistema de recogida gratuito de su localidad.

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