

WISeNet

GRABADOR DE VÍDEO DE RED

Manual de especificación del producto

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



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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- 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.

Para apagar de forma segura, seleccione Salir en el menú y haga clic en <Aceptar> en la pantalla emergente. A continuación, desconecte el cable de alimentación.

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

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Los productos de NVR son compatibles con cada función

Función	Productos
Ventilador	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
Control remoto	XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Joystick	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Monitor doble	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Conmutación por error	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A
Grabación distribuida	XRN-3010, XRN-3010A

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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.

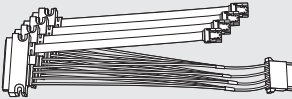
- Interfaz de usuario sencilla para el usuario
- Es compatible con una gama de resoluciones de cámaras 4K (3840X2160, 4096X2160, 4000X3000)
- Genera una imagen 4K de alta definición a través de HDMI
- Grabación y reproducción de vídeo
- Grabación y reproducción de audio
- Admite el estándar ONVIF Profile 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, 3.0 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, configuración rápida)
- Soporta la función de monitoreo remoto del smartphone mediante compatibilidad con P2P (XRN-2010A/2011A/3010A/1610A/1610SA)

Descripción General

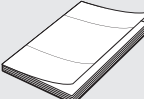
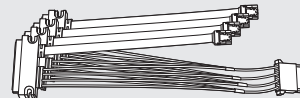
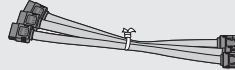
Desembale el producto y colóquelo sobre una superficie plana o en el lugar en el que se va a instalar. Compruebe que además de la unidad principal se incluyan los elementos siguientes.

-  La apariencia de los componentes puede diferir de la imagen mostrada.
- La categoría y la cantidad de accesorios pueden variar según la zona de venta.
- Para algunas regiones, HDD no está preinstalado. El número de tornillos de fijación de HDD, cables de potencia SATA, cables de datos SATA y cables de potencia/datos SATA varía en función del modelo.

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

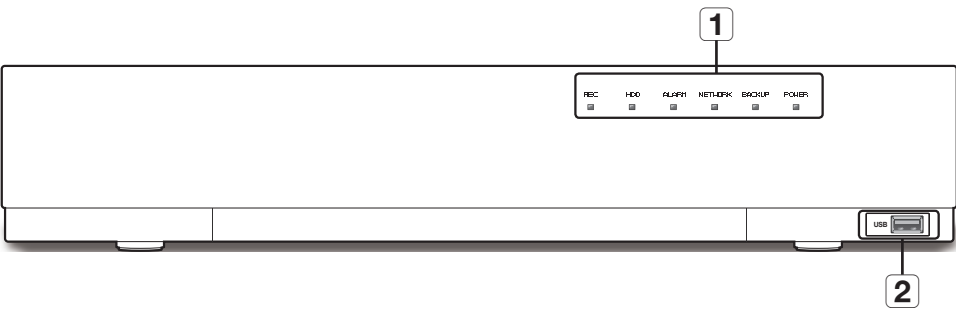
		
NVR	Ratón	Cable de alimentación
		
Manual rápido	Bloque de terminales	Bastidor de soporte
		
Tornillo de fijación de abrazadera	Cable de alimentación/HDD SATA (No disponible en XRN-2011/2011A)	Tornillo de fijación HDD (No disponible en XRN-2011/2011A)

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

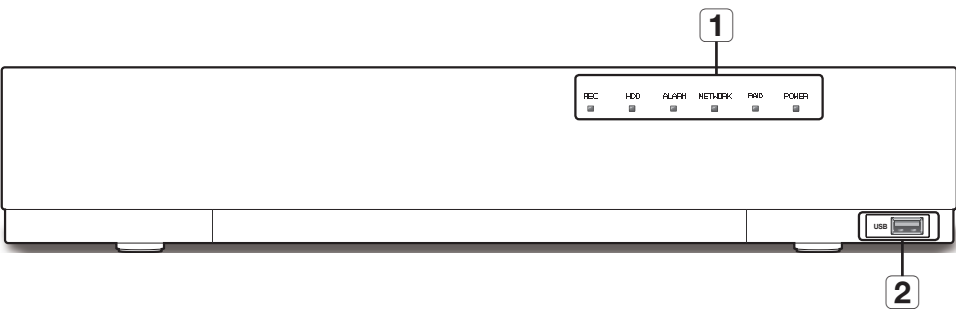
		
NVR	Ratón	
		
Cable de alimentación	Bloque de terminales	
		
Manual rápido	Bastidor de soporte	Tornillo de fijación HDD
		
Tornillo de fijación de abrazadera	Cable de alimentación/HDD SATA (XRN-1610/1610A)	Cable de alimentación SATA (XRN-1610S/1610SA)
		
Cable de datos SATA (XRN-1610S/1610SA)		

NOMBRES DE COMPONENTES Y FUNCIONES (PARTE FRONTAL)

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



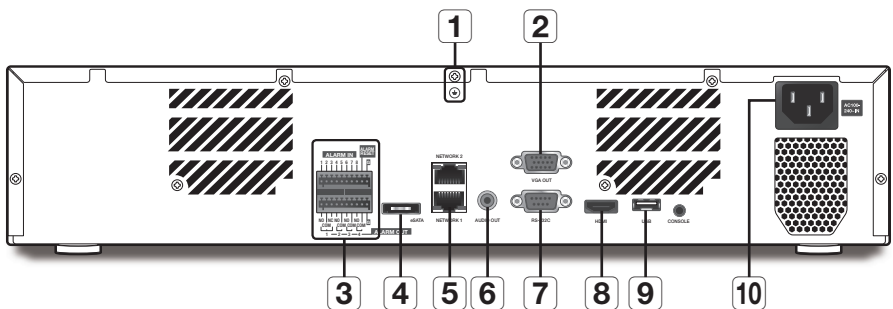
XRN-2011/2011A



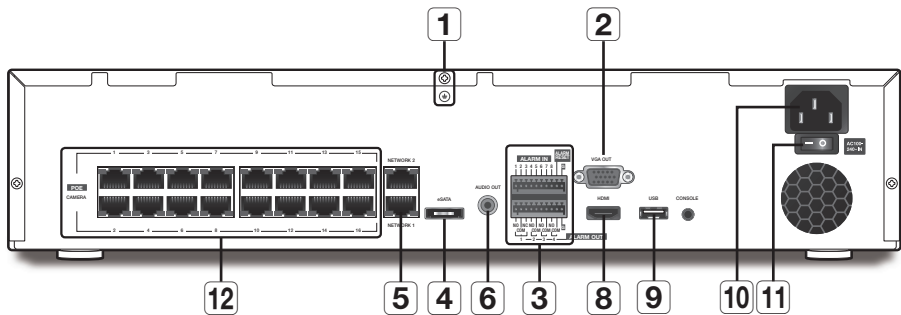
Nombre de componente		Funciones
1	Indicador LED	REC : Se ilumina cuando la grabación se encuentra en curso.
		HDD : Muestra el acceso normal al DD. El LED se ilumina cuando se accede al disco duro.
		ALARM : Se ilumina cuando se produce un evento.
		NETWORK : Muestra el estado de la conexión de red y de la transferencia de datos.
		BACKUP : Permanece encendido mientras la copia de seguridad está en funcionamiento. (XRN-2010/2010A/3010/3010A/1610/1610S/1610A/1610SA)
		RAID : Permanece encendido mientras el RAID está en uso. Parpadea si la copia de seguridad se activa cuando el RAID está en uso. Parpadea únicamente cuando la copia de seguridad está en funcionamiento y el RAID no está en uso. (XRN-2011/2011A)
		POWER : Muestra el estado encendido/apagado de la alimentación.
2	USB	Conecta los dispositivos USB. (Compatible con USB 2.0)

NOMBRES DE COMPONENTES Y FUNCIONES (PARTE POSTERIOR)

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



XRN-1610S/1610SA



Nombre de componente		Funciones
1	Conexión a tierra	Terminal para conectar un cable a tierra independiente. ■ Añada un cable de tierra para respaldar el uso seguro del dispositivo.
2	VGA OUT	Puerto de salida de señal de vídeo VGA.
3	ALARM	- ALARM IN : puertos de entrada de alarma. (1~8 CH) - ALARM RESET : puerto de reinicio de alarma. - ALARM OUT : puertos de salida de alarma. (1~4 CH)
4	eSATA	Terminal para conectar un dispositivo de almacenamiento externo.
5	NETWORK1	Puerto recomendado para la conexión de la cámara, donde se recibe una imagen de la cámara.
	NETWORK2	Puerto recomendado para la conexión con una red, visor web o iSCSI.
6	AUDIO OUT	Puerto de salida de señal de audio (toma RCA).
7	RS-232C	Terminal del cable de comunicación serial (de repuesto).
8	HDMI	Puerto de conector HDMI.
9	USB	Conecta los dispositivos USB. (Compatible con USB 3.0)
10	Alimentacion	Terminal al que se conecta la alimentacion.
11	Interruptor de encendido	Interruptor de encendido/apagado. (XRN-1610S/1610SA)
12	PoE (CAMERA)	Puerto de la fuente de alimentación para conectar a una cámara. (XRN-1610S/1610SA)

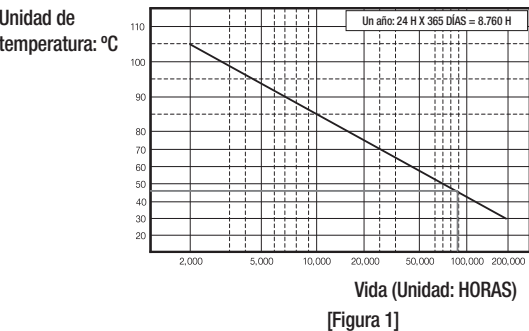
■ [CONSOLE] se ha diseñado sólo para servicios de reparación.

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.

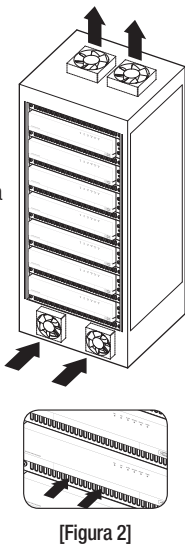
COMPROBACIÓN DEL ENTORNO DE INSTALACIÓN

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.

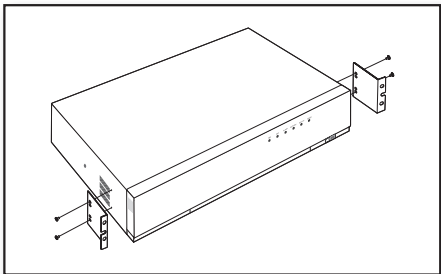


[Figura 2]

INSTALACIÓN DEL BASTIDOR

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

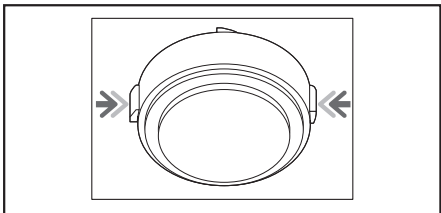
- Fije los tornillos para que no se aflojen por causa de las vibraciones.



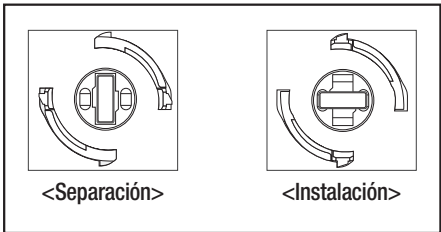
Precauciones al instalar el bastidor

Para instalar varios NVR en el bastidor, asegúrese de separar el PIE en la parte inferior de cada NVR.

1. Hay cuatro PIES en la parte inferior de un NVR. Pulse las partes que sobresalen en ambos lados de cada "PIE" y gire hacia la izquierda.



2. El "PIE" es separado del cuerpo principal cuando se gira hasta el final de la ranura de fijación.



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 8 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.

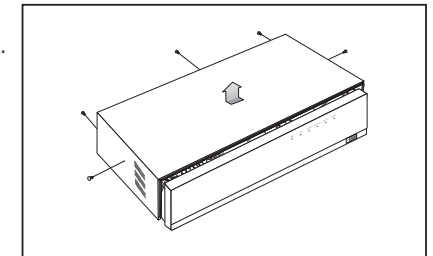
Instalación del disco duro



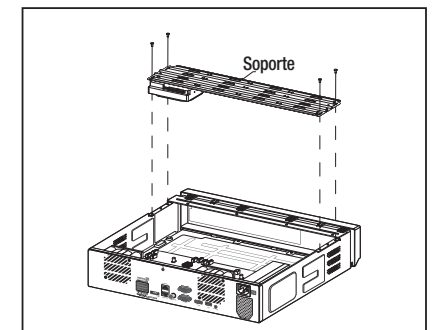
- Si, además de la unidad de HDD instalada originalmente, va a añadir a este producto un HDD nuevo o usado previamente, formatee el HDD nuevo de forma manual en la instalación antes de su uso. Para aprender a formatear, consulte “**Dispositivo/Formato**” en el Manual del usuario de Wisenet NVR.

Cómo instalar un disco duro en XRN-2010/2010A/3010/3010A/1610/1610A/1610S/1610SA

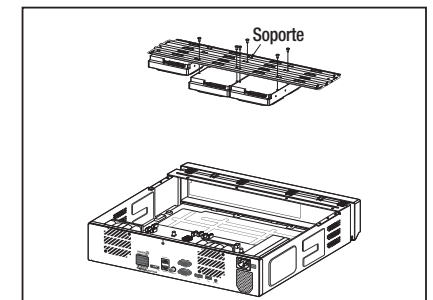
1. Retire primero los tornillos que se encuentran en la parte izquierda/derecha y en la parte trasera, y luego retire la cubierta.



2. Retire los tornillos de la parte izquierda/derecha (4 tornillos) y retire el soporte.

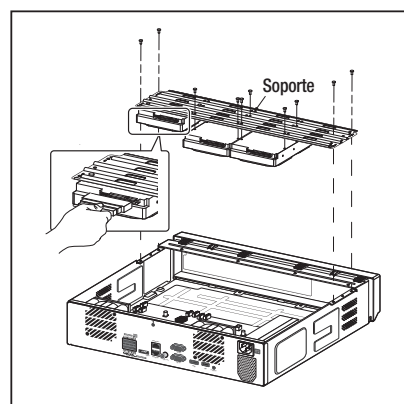


3. Monte un HDD en el soporte y fíjelo con tornillos.



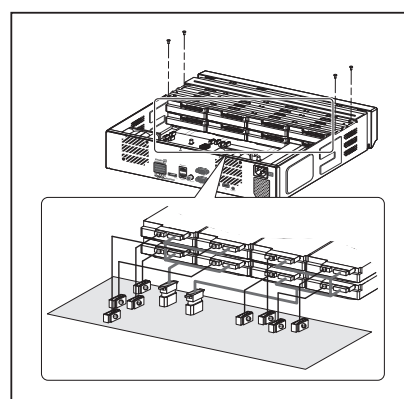
4. Conecte el cable a la unidad de disco duro. Para esto, haga que el número de cable de alimentación/HDD SATA coincida con el número de posición del HDD en el soporte.

- Para ver el número de posición del HDD en el soporte, consulte la figura de abajo.

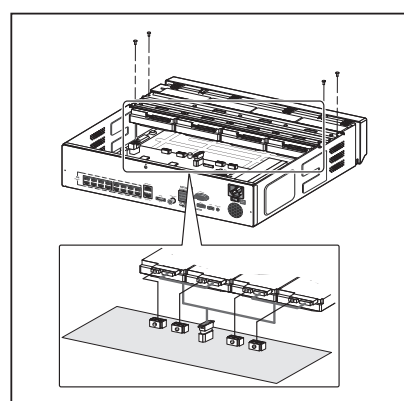


5. Monte en el NVR el soporte sobre el que se encuentra montado un HDD adicional, fíjelo con tornillos y conecte el cable de alimentación/SATA al conector de la placa principal, haciendo que el número coincida.

- Para ver los números de conector, consulte la siguiente figura.

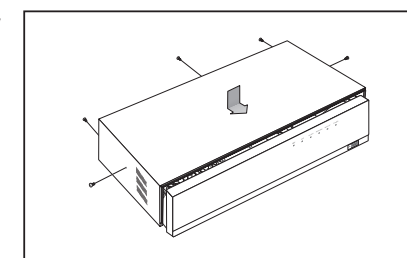


<XRN-2010/2010A/3010/3010A/1610/1610A>



<XRN-1610S/1610SA>

6. Compruebe si hay algún problema en el terminal de conexión y en el cableado del producto, cierre la tapa y fíjela con los tornillos.

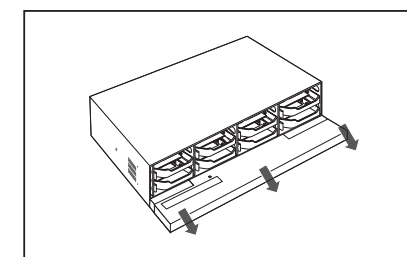


Cómo instalar un disco duro en XRN-2011/2011A

1. Abra la cubierta frontal y compruebe el soporte de instalación del disco duro.



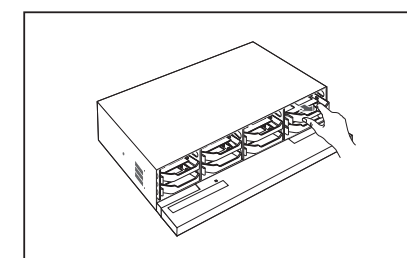
- Suelte la conexión USB antes de abrir la cubierta frontal para evitar daños en el puerto USB.



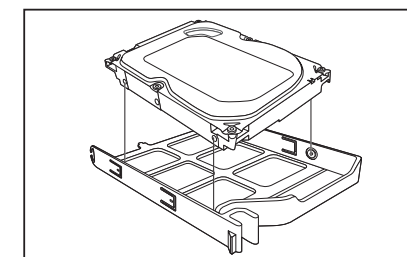
2. Empuje el pestillo hacia la derecha y retire el soporte del disco duro.



- Tenga cuidado de no arañarse las manos al retirar el soporte del disco duro.



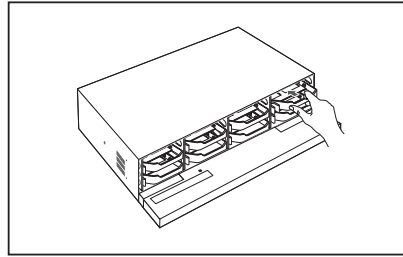
3. Alinee e inserte el disco duro en la base del soporte. Después de insertar un lado, empuje e inserte el otro lado ligeramente.



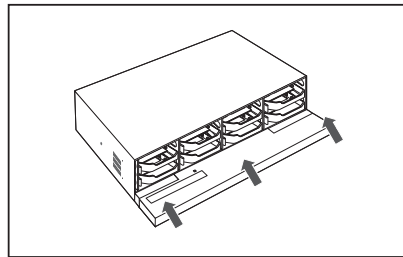
4. Alinee el soporte con el disco duro instalado con el pestillo de cierre, y empuje el soporte en la dirección de la placa.



- Empuje hasta que escuche el sonido de bloqueo del pestillo. Es posible detectar si el disco duro no está conectado completamente.



5. Empuje la cubierta frontal hacia arriba y ciérrela.

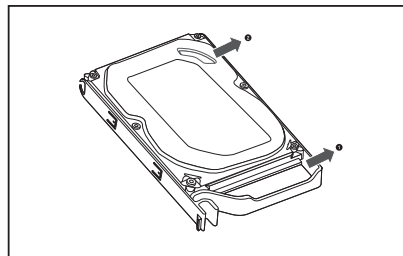


• Cómo cambiar un disco duro instalado

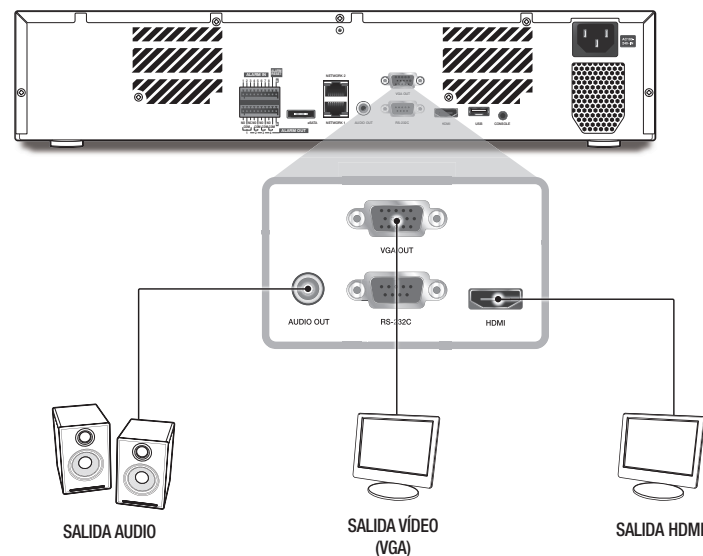
1. Abra un soporte por completo en la dirección de la flecha y retire la base del disco duro.
2. Abra el otro soporte por completo y retírelo de la base.



- El procedimiento después de cambiar el disco duro es el mismo que el procedimiento para "Instalación del disco duro".



CONEXIÓN A UN DISPOSITIVO EXTERNO

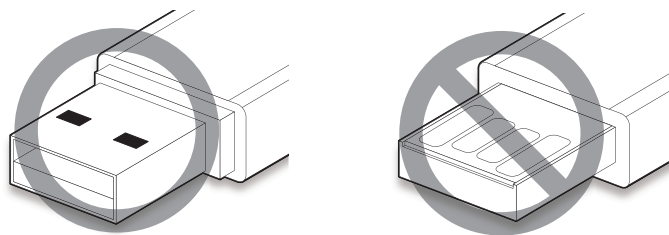


- ! Una fuente de alimentación inadecuada o con un valor nominal incorrecto puede causar daños en el sistema. Asegúrese de utilizar sólo la fuente de alimentación nominal antes de pulsar el botón de ALIMENTACIÓN.

CONEXIÓN DE USB

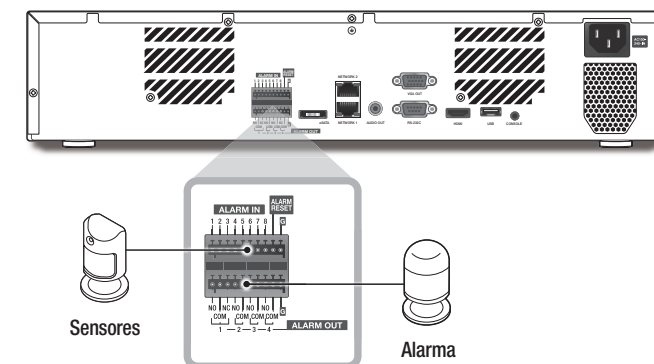
1. En la parte frontal del producto, hay un puerto USB.
2. Puede conectar al puerto USB un DD USB, una memoria USB o un ratón.
3. HDD is not commonly used in Spanish. However, if the client chooses to use it: En caso de que su HDD USB esté conectado al sistema, puede detectarlo y configurarlo siguiendo 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.

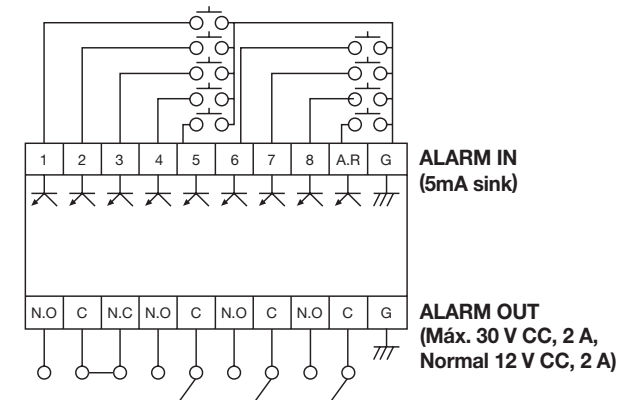


CONEXIÓN DE LA ENTRADA/SALIDA DE ALARMA

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



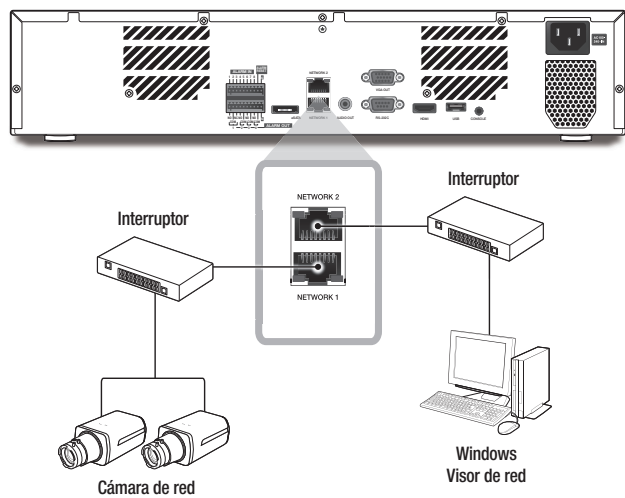
- ALARM IN 1 ~ 8 : puerto de entrada de alarma
- ALARM RESET : al recibir la señal de reinicialización de alarma, el sistema cancela la entrada de alarma actual y reanuda la detección.
- ALARM OUT 1 ~ 4 : puerto de salida de alarma



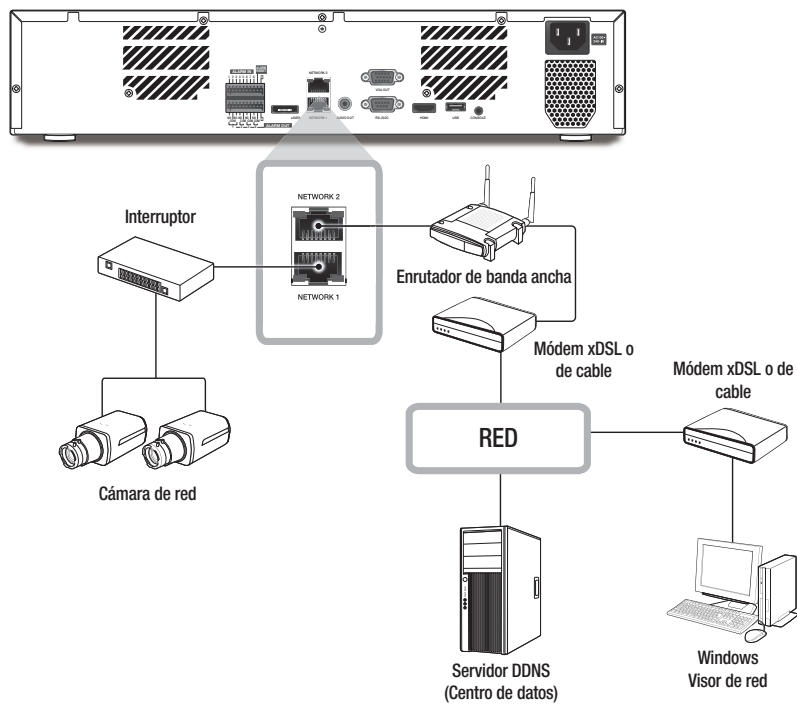
CONEXIÓN DE RED

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

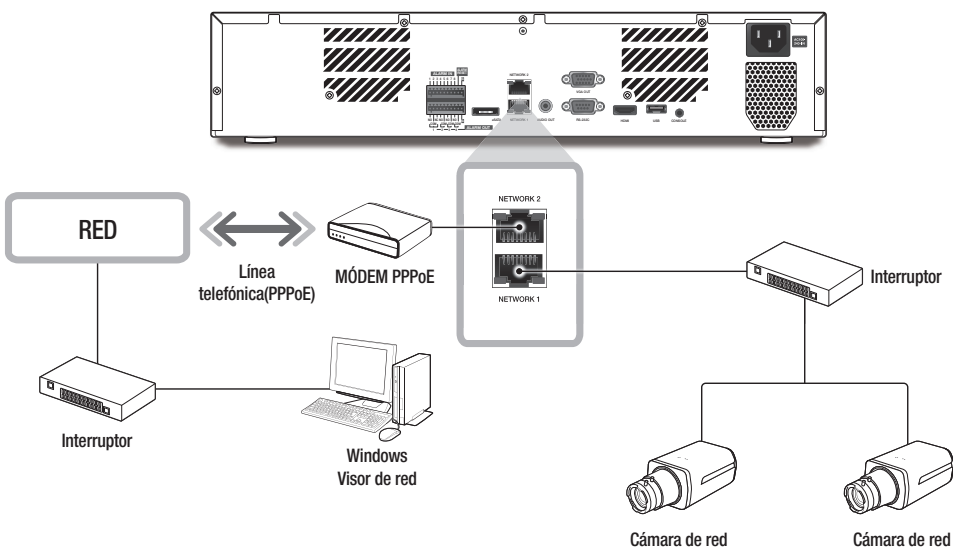
Conexión de red a través de Ethernet (10/100/1000BaseT)



Conexión de red a través de enrutador

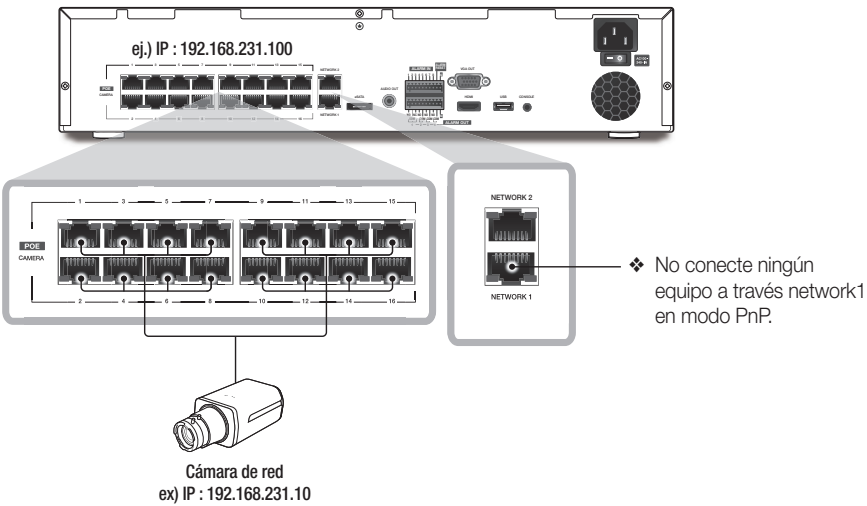


Conexión a Internet a través de PPPoE

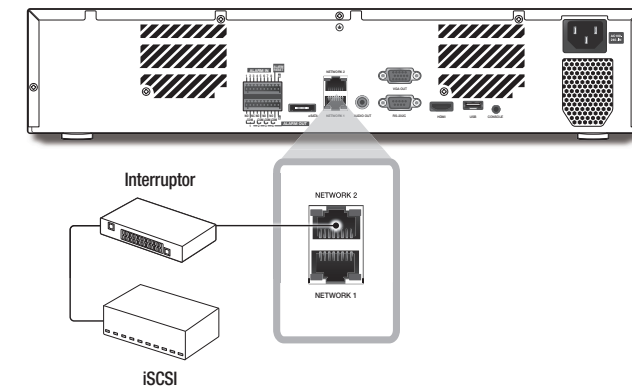
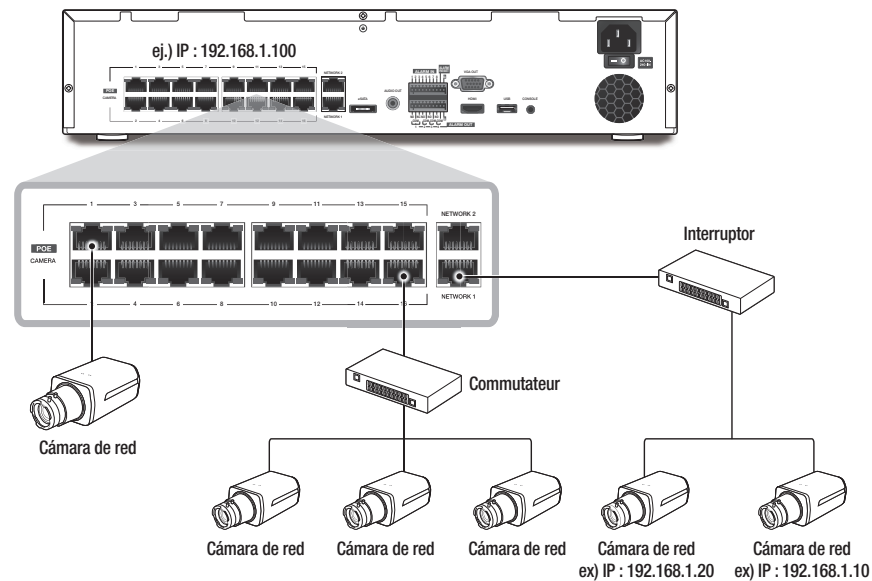


Conexión de la cámara de red (XRN-1610S/1610SA)

Ejemplo 1)

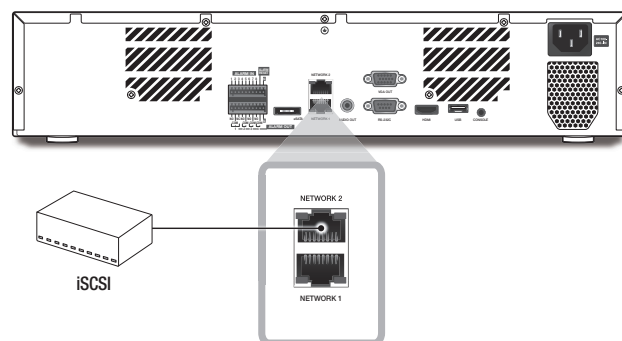


Se puede usar un conmutador para la conexión



Conexión del iSCSI

Conexión directa al NVR



• XRN-2010/2011/2010A/2011A

Opción		Detalles	
		XRN-2010/2010A	XRN-2011/2011A
Pantalla			
Cámara de red	Entradas	Máx. 32 can.	
	Resolución	CIF ~ 12MP	
	Protocolos	Wisenet, ONVIF	
En directo	Visualización local	1x HDMI / 1x VGA	
Rendimiento			
Sistema operativo	Incorporado	Linux	
Grabación	Compresión	H.265, H.264, MJPEG	
	Ancho de banda de grabación	Máx. 256 Mbps(grabación de 32 cámaras en tiempo real 2MP)	Máx. 100 Mbps(RAID-5 Mode)
	Resolución	CIF ~ 12MP	
Búsqueda y reproducción	Ancho de banda de reproducción	32 Mbps (16 canales simultáneamente)	
	Simultaneous playback	16 canales (monitor local, CMS)	
	Resolution	CIF ~ 12MP	
	Control de reproducción	Avance/Retroceso rápido/lento, Avanzar un paso/Retroceder un paso	
Almacenamiento	Incorporado	1EA	
	HDD interno	8 (RAID5 : Hot Swap) - Máx. 48TB(Non-RAID), Máx. 36TB(RAID-5)	
	Externo	Almacenamiento iSCSI (máx. 384 TB)	
	RAID	-	RAID-5 (Tamaño de matriz: Matriz 4 HDD x 2)
Copia de seguridad	Copia de seguridad de archivos (a través de Web)	BU/Exe(GUI), JPG/AVI(Red)	
	Función	Máx. Reproducción 16CH, visualización de título/fecha-hora	

Opción		Detalles	
		XRN-2010/2010A	XRN-2011/2011A
Sensor	E/S	8/4 (NO/NC seleccionable)	
Audio	Entrada	32 canales (red)	
	Compresión	G.711, G.726, AAC(16/48KHz)	
	Comunicación de audio	Bidireccional	
Red			
Interfaz		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	
Transmission Bandwidth		512 Mbps (iSCSI Off), 256 Mbps (iSCSI On)	
Máx. de usuarios remotos		Búsqueda (3) / En vivo Unicast (10) / En vivo Multicast (20)	
Versión IP		IPv4/v6	
Seguridad		Registro de acceso de usuarios, filtrado IP, 802.1x, cifrado	
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		Windows 7, 8.1, 10, Mac OS X 10.9, 10.10, 10.11	
Web Browser		MS IE, Google Chrome, Mac Safari	
Software visor	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	Compatibilidad CMS	SDK/CGI	
Smartphone	Modelo de apoyo	Android, iOS	
	Compatibilidad de protocolos	RTP, RTSP, HTTP, CGI	
	Control	Vivo (16 canales) / Reproducción (1 canal)	
	Máx. de usuarios remotos	Búsqueda (3) / En vivo Unicast (10)	

Opción		Detalles	
		XRN-2010/2010A	XRN-2011/2011A
Funciones			
PTZ	Control	Vía GUI, Visor Web, SPC-2000	
	Ajustes predeterminados	300 ajustes predeterminados	
Redundancy	Conmutación por error	32 (Normal) + 1 (Modo de espera)	
	ARB	Sí	
Control del sistema		Ratón, Web, SPC-2000(Controlador)	
Indicador/Interfaz			
Frontal	Indicador	Indicador de estado LED: Actividad HDD(1), Alarma(1), Potencia(1), Grabación(1), Copia de seguridad(1), Red(1)	Indicador de estado LED: Actividad HDD(1), Alarma(1), Potencia(1), Grabación(1), RAID(1), Red(1)
	Interruptor	N/A	
Conectores	VGA	1EA (Soporte en vivo para un máximo de 16 en modo de pantalla dividida)	
	HDMI	1EA (Soporte En vivo/PB/Configuración) - Compatible con 4K máx. (3840 x 2160)	
Conectores	Audio	Out(1EA, RCA, Line)	
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)	
	Alarm	1) Entrada(8EA, 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 1, Parte Posterior 1(USB3.0))	
	Almacenam.	1 e-SATA	
	Serial	RS-232C	
	Reinicio	-	
	Cable de alimentación	1EA Entrada CA	

Opción		Detalles	
		XRN-2010/2010A	XRN-2011/2011A
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 a 240 VCA ±10%; 50/60 Hz, 4~1.5A	
Consumo de energía		99W (6TB HDD x 8ea)	
Características mecánicas			
Color / Material		Negro / Metal	
Dimensiones (An. x Al. x P.)		440x88x384.8 (17.32" x 3.46" x 15.15") (2U)	
Peso		4.86 kg (Sin HDD)	5.43 kg (Sin HDD)
Estándares			
Homologaciones		UL, FCC, KC, CB, CE-EMC, CCC, EAC, PSE	

Especificaciones de rendimiento de grabación para la condición HDD

No	Condición de HDD	Recepción (Mbps)	Grabación (Mbps)	
			Interno	iSCSI
1	HDD para CE No RAID	256	256	-
2	HDD para CE RAID 5	100	100	-
3	HDD para servidor No RAID	256	256	256
4	HDD para servidor RAID 5	100	100	100

• XRN-3010/3010A

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 (1560fps)
Rendimiento		
Sistema operativo	Incorporado	Linux
Grabación	Compresión	H.265, H.264, MJPEG, WiseStream(H.265, H.264)
	Ancho de banda de grabación	Máx. 300 Mbps
	Resolución	CIF ~ 12MP
Búsqueda y reproducción	Ancho de banda de reproducción	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	8 (Máx. 64TB)
	Externo	-

Opción		Detalles
Copia de seguridad	Copia de seguridad de archivos (a través de Web)	BU/Exe(GUI), JPG/AVI(Red)
	Función	Reproducción multicanal (hasta 16 canales), fecha-hora / visualización de títulos
Sensor	E/S	8/4 (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 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
Transmission Bandwidth		XRN-3010 : 512 Mbps XRN-3010A : 512 Mbps(P2P Off), 256 Mbps (P2P On)
Máx. de usuarios remotos		Búsqueda (3) / En vivo Unicast (10) / Multicast (20)
Versión IP		IPv4/v6
Seguridad		Registro de acceso de usuarios, filtrado IP, 802.1x, cifrado
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	SDK/CGI (SUNAPI)
Funciones		
PTZ	Control	Vía GUI, Visor Web, SPC-2000
	Ajustes predeterminados	300 ajustes predeterminados

Opción		Detalles
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) / Multicast (20)
Redundancy	Conmutación por error	N+1 (Include Fail-Back)
	ARB	Sí
Control del sistema		Ratón, Web, SPC-2000(Controlador)
Indicador/Interfaz		
Frontal	Indicador	Indicador de estado LED (6EA) : Actividad HDD(1), Alarma(1), Potencia(1), Grabación(1), Copia de seguridad(1), Red(1)
Conectores	VGA	Sub: 1 EA (admite pantalla en vivo de hasta 16 div.)
	HDMI	Principal : 1 EA (admite en vivo / PB / Configuración) - Admite hasta 4K (3840 x 2160 píxeles, modo monitor único)
Conectores	Audio	Out(1EA, RCA, Line)
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)
	Alarm	1) Entrada(8EA, 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 1, Parte Posterior 1)
	Almacenam.	1 e-SATA
	Serial	RS-232C
	Reinicio	Interruptor (1EA)
	Cable de alimentación	1EA 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 a 240 VCA ±10%; 50/60 Hz, 4~1.5A
Consumo de energía		Máx. 99W (338BTU, 6TB HDD x 8ea)
Características mecánicas		
Color / Material		Negro / Metal
Dimensiones (An. x Al. x P.)		An.440xAl.88xP.384.8 (17.32" x 3.46" x 15.15") (2U)
Peso		4.86Kg (10.71 lb, HDD no incluido)

Especificaciones de rendimiento de grabación para la condición HDD

Modo	Condición de HDD	Grabación
		Interno
Modo general	-	150
	1 HDD	150
Modo distribuido	2 o más unidades de HDD	300

• XRN-1610/1610S/1610A/1610SA

Opción		Detalles	
		XRN-1610/1610A	XRN-1610S/1610SA
Pantalla			
Cámara de red	Entradas	Máx. 16 can.	
	Resolución	CIF ~ 12MP	
	Protocolos	Wisenet, ONVIF	
En directo	Visualización local	1x HDMI / 1x VGA Monitor dual	
	Rendimiento	[Monitor local] 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)	
Rendimiento			
Sistema operativo	Incorporado	Linux	
Grabación	Compresión	H.265, H.264, MJPEG, WISESTREAM(H.265, H.264)	
	Ancho de banda de grabación	180 Mbps	
	Resolución	CIF ~ 12MP	
Búsqueda y reproducción	Ancho de banda de reproducción	32 Mbps (16 canales simultáneamente)	
	Usuario	Máx. 4 usuarios (Local 1, Remoto 3)	
	Simultaneous playback	Hasta 16CH (local, red)	
	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 por defecto	0TB ~ 8 TB	
	interno	8 SATA (Máx. 48TB)	4 SATA (Máx. 24TB)
	Externo	1 e-SATA, iSCSI (máximo 384 TB)	
Copia de seguridad	Formato de archivo	BU/EXE(GUI), JPG/AVI(Red)	
	Función	Máx. Reproducción 16CH, visualización de título/fecha-hora	

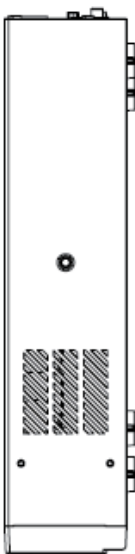
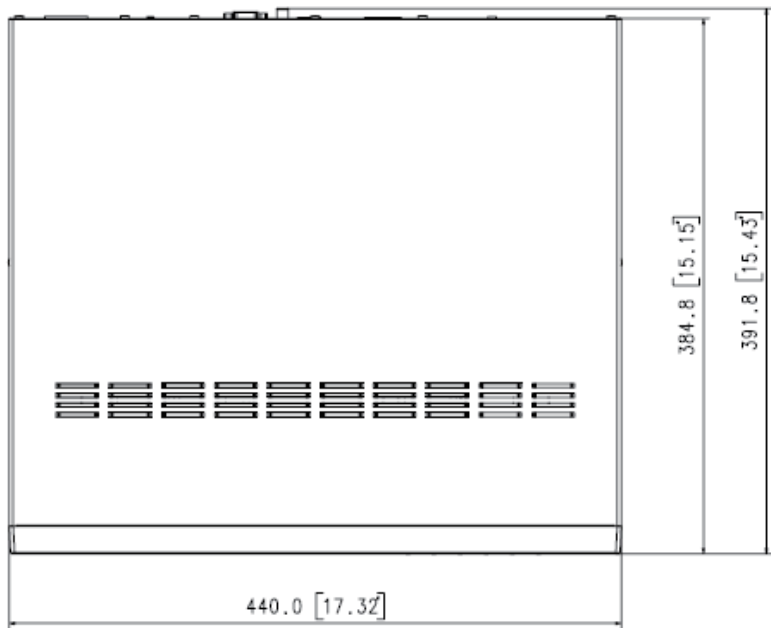
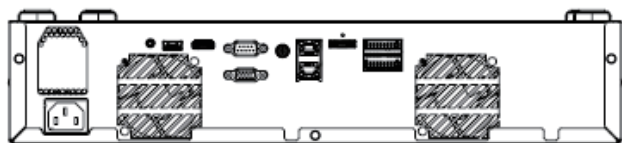
Opción		Detalles	
		XRN-1610/1610A	XRN-1610S/1610SA
Sensor	E/S	8/4 (NO/NC seleccionable)	
Audio	Entrada	16 canales (red)	
	Compresión	G.711, G.726, AAC(16/48KHz)	
	Comunicación de audio	Bidireccional (paso entre cámara y SSM)	
Red			
Protocolo		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (servidor, cliente), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI (servidor, cliente)	
DDNS		Hanwha DDNS	
Transmission Bandwidth		Máx. 256 Mbps (iSCSI Off), Máx. 128 Mbps (iSCSI On)	
Máx. de usuarios remotos		Búsqueda (3) / En vivo Unicast (10) / En vivo Multicast (20)	
Versión IP		IPv4/v6	
Seguridad		Registro de acceso de usuarios, filtrado IP, 802.1x, cifrado (ID/PW, Grabación, Transmisión, Respaldo)	
Idioma	GUI	Inglés, francés, alemán, italiano, español, ruso, turco, polaco, holandés, sueco, checo, portugués, danés, rumano, serbio, croata, húngaro, griego, noruego, finés, coreano, chino, japonés, tailandés	
	Web	Inglés, francés, alemán, italiano, español, ruso, turco, polaco, holandés, sueco, checo, portugués, danés, rumano, serbio, croata, húngaro, griego, noruego, finés, coreano, chino, japonés	
SO		Windows XP (paquete de servicio 2 o superior), Vista, 7, 8, 10, Mac OS X (10.7 o superior)	
Web Browser		Visor web sin plugin Navegadores compatibles: Google Chrome 47, MS Edge 20 WMF: 1 canal LIVE (800X600), CONFIGURACIÓN Visor web de plugin Navegadores compatibles: MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS X sólo	
Software visor	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	Compatibilidad CMS	SDK/CGI (SUNAPI)	

Opción		Detalles	
		XRN-1610/1610A	XRN-1610S/1610SA
Smartphone	Modelo de apoyo	Android, iOS	
	Compatibilidad de protocolos	RTP, RTSP, HTTP, CGI (SUNAPI)	
	Control	En vivo(16 canales) : Soporte de múltiples perfiles / Reproducción(1 canal, Máx. 2MP)	
	Máx. de usuarios remotos	Búsqueda (3) / En vivo Unicast (10) / En vivo Multicast (20)	
Funciones			
Control de la cámara	PoE	-	1) Consumo de alimentación PoE del monitor 2) Control de encendido/apagado para cada cámara PoE 3) Reinicio de control remoto para cada cámara PoE
	Sincronización temporal	-	Protocolo horario de NVR de la cámara PoE (Sincronización temporal basada en la hora de NVR)
Configuración fácil		Asistente de configuración (Idioma, Fecha/Hora, Red, Configuración automática de la cámara)	Asistente de configuración (Idioma, Fecha/Hora, Red, Configuración automática de la cámara) ※ Seleccionable entre el PnP y el modo manual
ARB (Copia de seguridad de recuperación automática)		Sí	
PTZ	Control	Vía GUI, Visor Web, SPC-2000 (USB)	
	Ajustes predeterminados	300 ajustes predeterminados	
Control del sistema	Aplicaciones de control	Ratón, IR Remocon, Web, SPC-2000(USB)	
Indicador/Interfaz			
Frontal	Indicador	LED 1EA de estado de alimentación LED 1EA de acción del disco duro LED 1EA de estado de alarma LED 1EA de estado de grabación LED 1EA de acción de red LED 1EA de estado de copia de seguridad	
Conectores	VGA	Sub: 1 EA (admite pantalla en vivo de hasta 16 div.)	
	HDMI	Principal: 1EA (Soporte en vivo / PB / Configuración) Compatible con hasta 4K (3840 x 2160 píxeles, modo monitor único)	

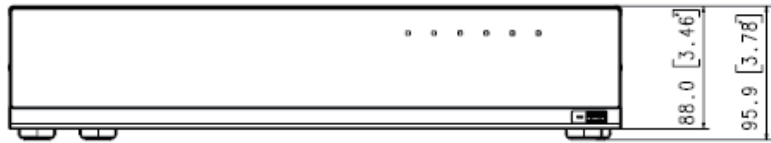
Opción		Detalles	
		XRN-1610/1610A	XRN-1610S/1610SA
Conectores	Audio	Out 1EA(RCA, Line)	
	Ethernet	2 EA (LAN/WAN, 1 Gbps) - LAN : Enlace descendente con cámara/PoE(PoE+) Hub - WAN: Enlace ascendente con CMS	16EA (PoE(PoE+), 100 Mbps) 2 EA (LAN/WAN, 1 Gbps) - LAN : Enlace descendente con cámara/PoE(PoE+) Hub - WAN: Enlace ascendente con CMS
	Alarm	Entrada(8EA, Bloque de terminales) Salida(4EA, Bloque de terminales)	
	USB	2EA(Parte Frontal 1, Parte Posterior 1)	
	Serial	1ea para RS-232C (plan para apoyar como base del proyecto)	-
	Reinicio	Sí (restablecimiento de configuración de fábrica, reinicio de la alarma)	
	Cable de alimentación	Incluido	
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			
Entrada de alimentación		100 ~ 240V AC	
Consumo de energía		Máx. 76.3W (8 HDDs)	Máx. 271.9 W (4 discos duros, PoE (PoE +) encendido), Máx. 51.9 W (4 discos duros, PoE (PoE +) apagado) ※ PoE (PoE +) Presupuesto: Máx. 200W
Características mecánicas			
Color / Material		Negro / Metal	
Dimensiones (An. x Al. x P.)		440x88x384.8mm (17.32" x 3.46" x 15.15") (2U)	
Peso		5.44kg	5.1kg

• XRN-2010/2011/2010A/2011A

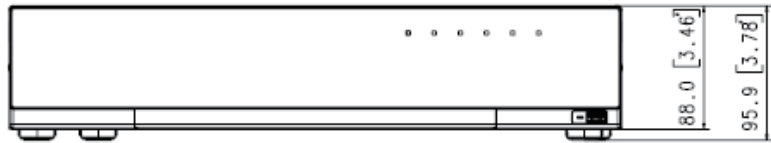
unidad : mm (pulg.)



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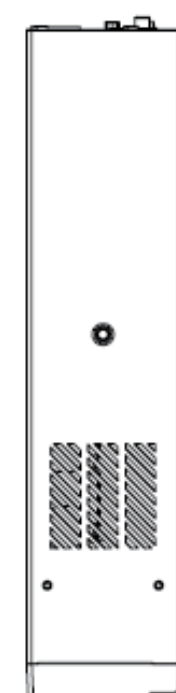
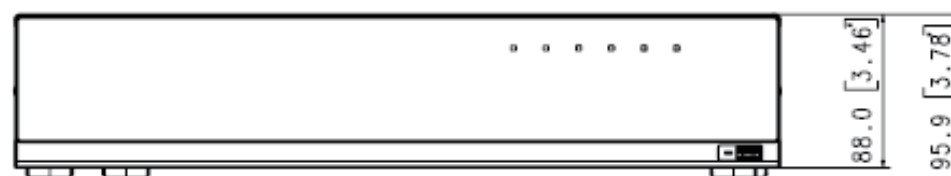
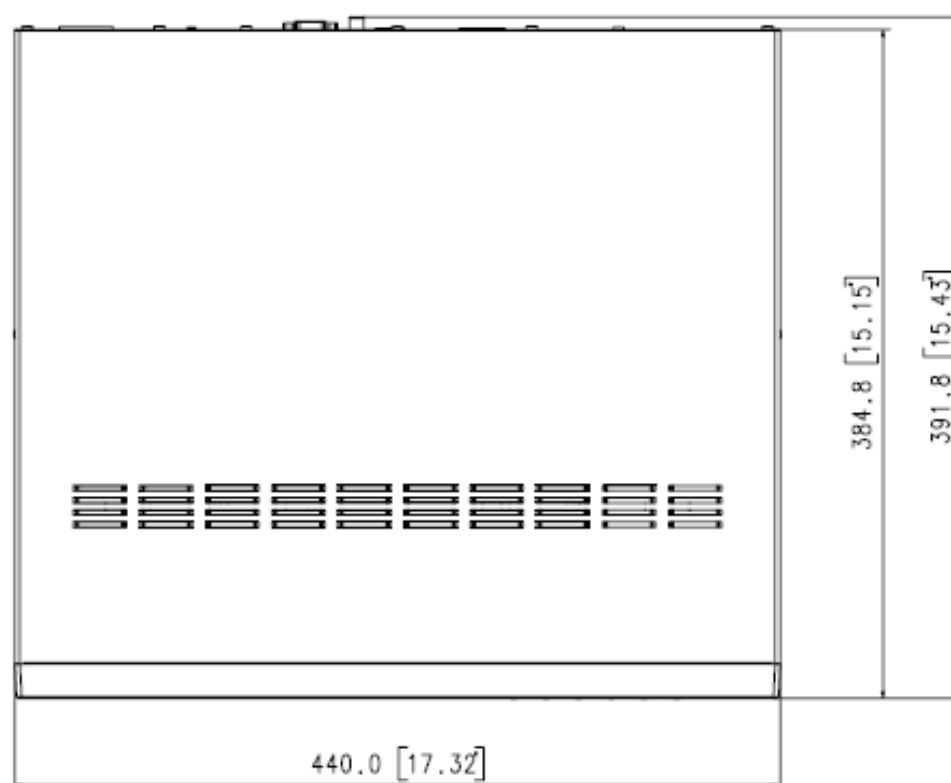
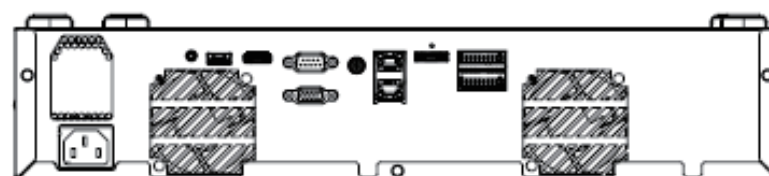


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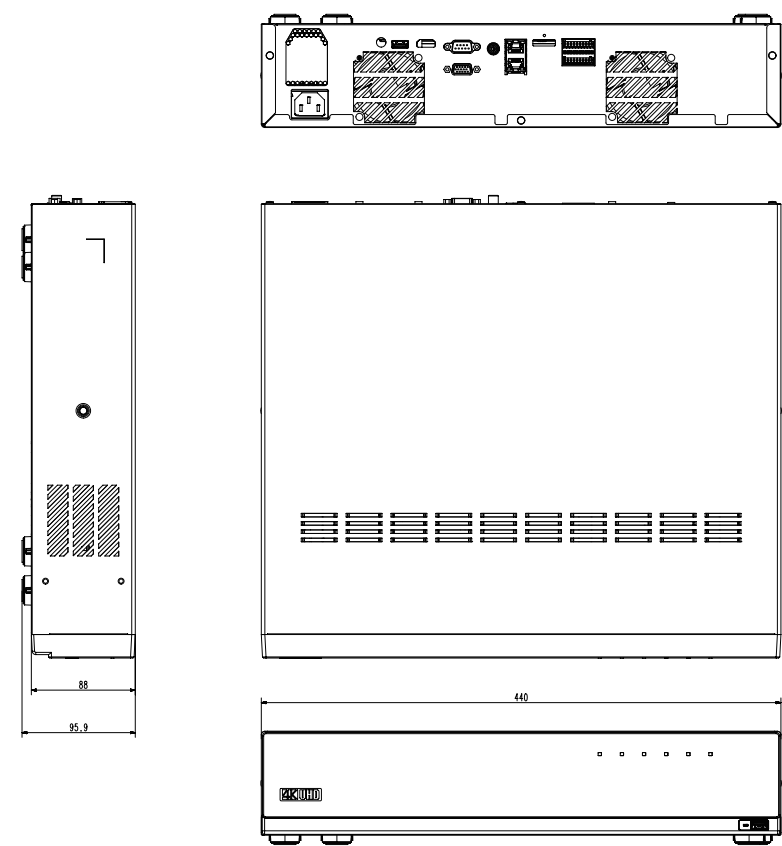
• XRN-3010/3010A

unidad : mm (pulg.)



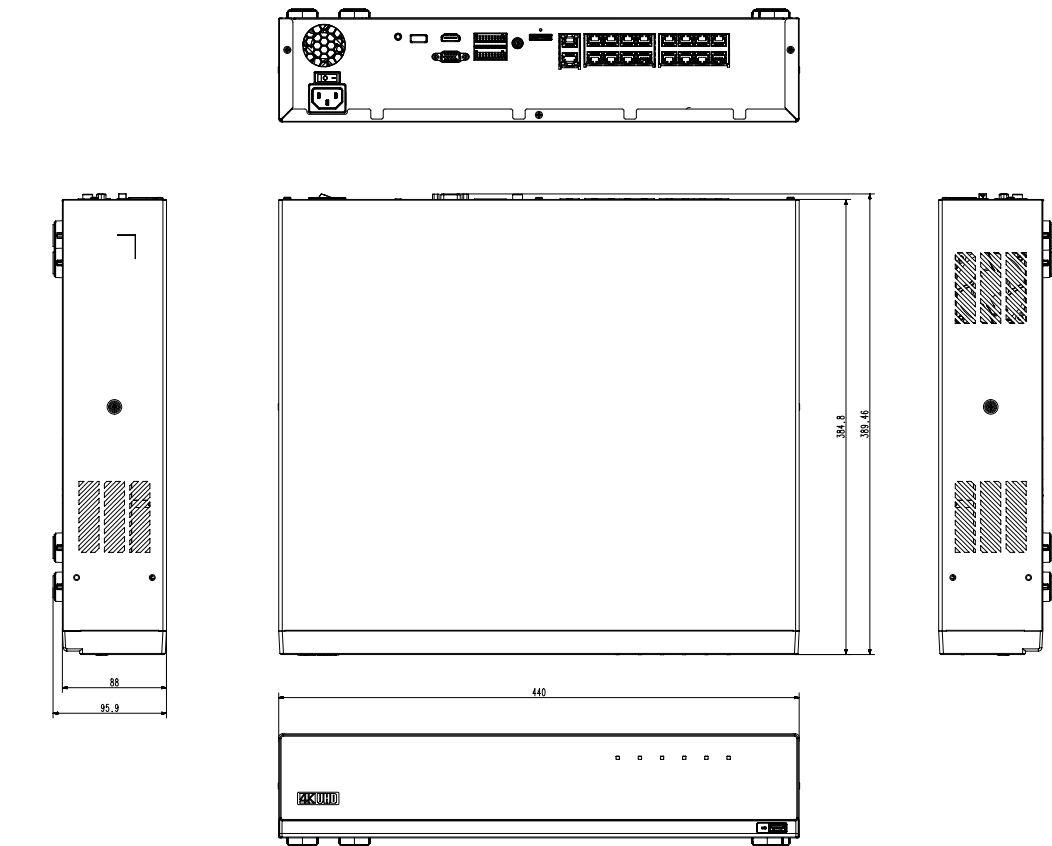
• XRN-1610/1610A

unidad : mm (pulg.)



• XRN-1610S/1610SA

unidad : mm (pulg.)



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Version 3, 29 June 2007

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Version 2.1, February 1999

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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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Hanwha Techwin respeta el medio ambiente durante todo el proceso de fabricación de sus productos y realiza una serie de procedimientos orientados a ofrecer productos ecológicos. El símbolo Eco representa el compromiso de Hanwha Techwin de fabricar productos que respeten el medio ambiente e indica a la vez que este equipo cumple con la Directiva de la Unión Europea EU RoHS.



Eliminación correcta de este producto (Residuos de aparatos eléctricos y electrónicos)

(Aplicable en la Unión Europea y en países europeos con sistemas de recogida selectiva de residuos)

La presencia de este símbolo en el producto, accesorios o material informativo que lo acompañan, indica que al finalizar su vida útil ni el producto ni sus accesorios electrónicos (como el cargador, cascos, cable USB) deberán eliminarse junto con otros residuos domésticos. Para evitar los posibles daños al medio ambiente o a la salud humana que representa la eliminación incontrolada de residuos, separe estos productos de otros tipos de residuos y reciclelos correctamente. De esta forma se promueve la reutilización sostenible de recursos materiales.

Los usuarios particulares pueden contactar con el establecimiento donde adquirieron el producto o con las autoridades locales pertinentes para informarse sobre cómo y dónde pueden llevarlo para que sea sometido a un reciclaje ecológico y seguro.

Los usuarios comerciales pueden contactar con su proveedor y consultar las condiciones del contrato de compra. Este producto y sus accesorios electrónicos no deben eliminarse junto a otros residuos comerciales.



Eliminación correcta de las baterías de este producto

(Aplicable en la Unión Europea y en otros países europeos con sistemas de recogida selectiva de baterías.)

La presencia de esta marca en las baterías, el manual o el paquete del producto indica que cuando haya finalizado la vida útil de las baterías no deberán eliminarse junto con otros residuos domésticos. Los símbolos químicos Hg, Cd o Pb, si aparecen, indican que la batería contiene mercurio, cadmio o plomo en niveles superiores a los valores de referencia admitidos por la Directiva 2006/66 de la Unión Europea. Si las baterías no se desechan convenientemente, estas sustancias podrían provocar lesiones personales o dañar el medioambiente.

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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