

WISeNet

GRABADOR DE VÍDEO DE RED

Manual de especificación del producto

XRN-410S/810S
QRN-410/810
QRN-410S/810S/1610S



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.

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

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.

Los productos de NVR son compatibles con cada función

Función	Productos
Ventilador	QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S
PoE	QRN-1610S, XRN-810S, QRN-810S, XRN-410S, QRN-410S
P2P	QRN-1610S, XRN-810S, QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S
Control remoto	QRN-1610S, XRN-810S, QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S Es posible que los modelos QRN-410/QRN-410S y XRN-410S no sean compatibles con el mando a distancia dependiendo de la región de ventas.

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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.

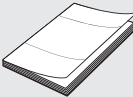
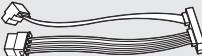
- Interfaz de usuario sencilla para el usuario
- Es compatible con una gama de resoluciones de cámaras 4K
- Genera una imagen 4K de alta definición a través de HDMI
- Grabación y reproducción de vídeo
- Grabación y reproducción de audio
- Admite el estándar ONVIF Profile S y los protocolos RTP / RTSP
- 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 4, 8 canales
- Varios modos de búsqueda (Tiempo, Evento, Inteligente, Texto, Copia de seguridad, ARB)
- Compatibilidad con ARB (función de configuración para guardar períodos por canal)
- 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
- Proporciona alarmas de eventos de smartphone (envío de mensajes de eventos en tiempo real)

Descripción General

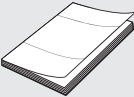
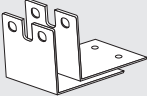
Desembale el producto y colóquelo sobre una superficie plana o en el lugar en el que se va a instalar.
Compruebe que además de la unidad principal se incluyan los elementos siguientes.

- La categoría y la cantidad de accesorios pueden variar según la zona de venta.

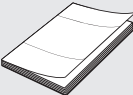
XRN-410S/QRN-410/QRN-410S

		
NVR	Ratón	Cable de alimentación
		
Adaptador de alimentación	Manual rápido	Bloque de terminales (No disponible en QRN-410S)
		
Tornillo de fijación HDD (Para modelos que no tienen HDD instalado)	Cable de alimentación SATA (Para modelos que no tienen HDD instalado)	

XRN-810S/QRN-1610S

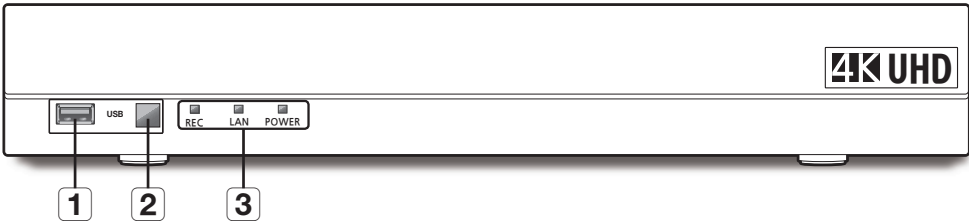
		
NVR	Ratón	Cable de alimentación
		
Manual rápido	Bloque de terminales	Mando a distancia / Pila del mando a distancia (AAA)
		
Bastidor de soporte	Tornillo de fijación de abrazadera	

QRN-810/QRN-810S

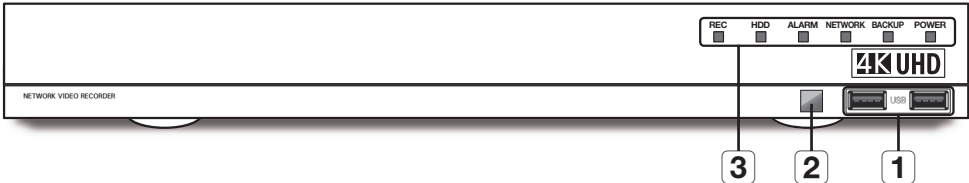
		
NVR	Ratón	Cable de alimentación
		
Adaptador de alimentación	Manual rápido	Bloque de terminales (No disponible en QRN-810S)
		
Mando a distancia / Pila del mando a distancia (AAA)	Tornillo de fijación HDD (Para modelos que no tienen HDD instalado)	Cable de alimentación SATA (Para modelos que no tienen HDD instalado)

NOMBRES DE COMPONENTES Y FUNCIONES (PARTE FRONTAL)

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



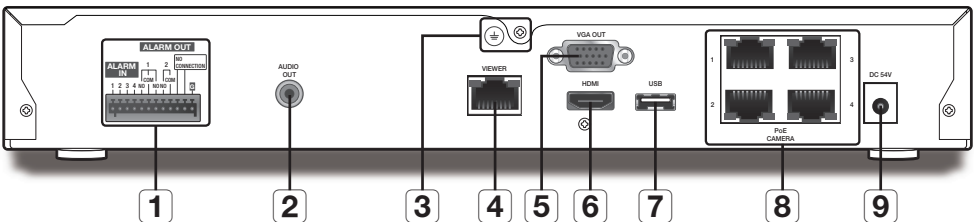
XRN-810S/QRN-1610S



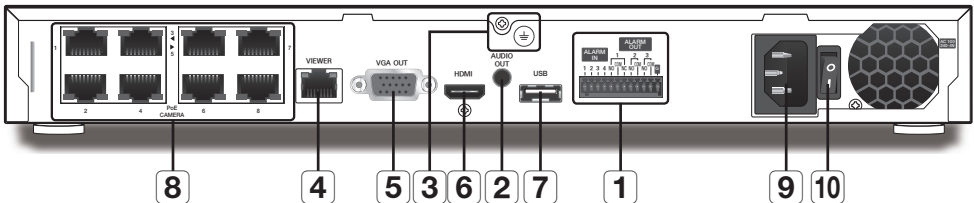
Nombre de componente		Funciones
1	USB	Conecta los dispositivos USB. (Compatible con USB 2.0)
2	Sistema de recepción del mando a distancia	Recibe la señal del mando a distancia.
3	LED Indicator	REC : Se ilumina cuando la grabación se encuentra en curso.
		HDD : Muestra el acceso normal al DD. El LED se ilumina cuando se accede al disco duro. (XRN-810S/QRN-1610S)
		ALARM : Se ilumina cuando se produce un evento. (XRN-810S/QRN-1610S)
		NETWORK (LAN) : 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-810S/QRN-1610S)
		POWER : Muestra el estado encendido/apagado de la alimentación.

NOMBRES DE COMPONENTES Y FUNCIONES (PARTE POSTERIOR)

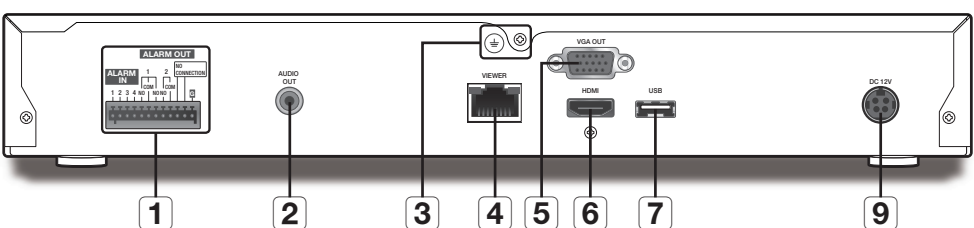
XRN-410S



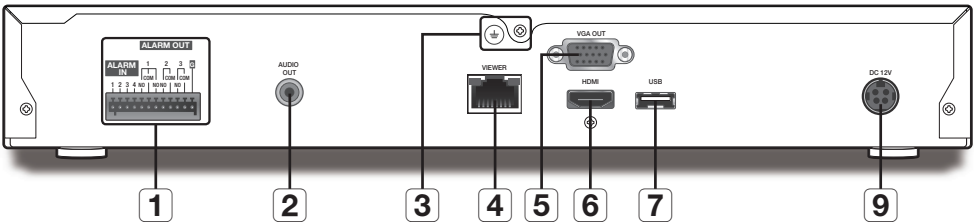
XRN-810S



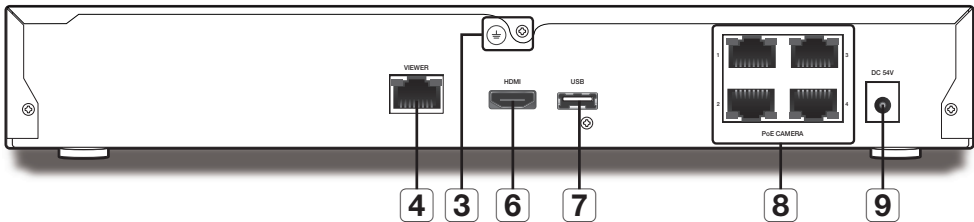
QRN-410



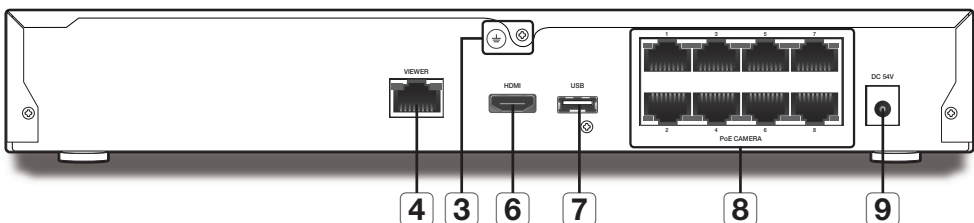
QRN-810



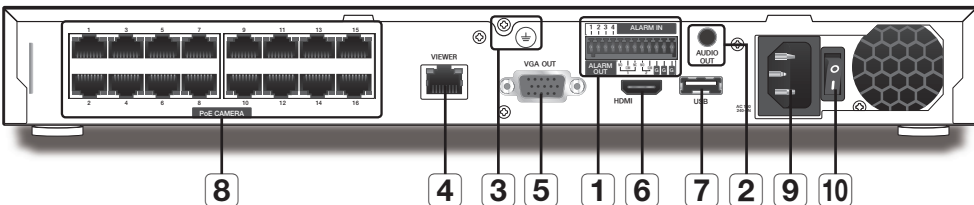
QRN-410S



QRN-810S



QRN-1610S



Nombre de componente		Funciones
1	ALARM	- ALARM IN : puertos de entrada de alarma. (1~4 CH) - ALARM OUT : puertos de salida de alarma. XRN-410S/QRN-410/QRN-1610S : 1~2 CH XRN-810S/QRN-810 : 1~3 CH
2	AUDIO OUT	Puerto de salida de señal de audio (toma RCA).
3	Conexión a tierra	Terminal para conectar un cable a tierra independiente. ■ Añada un cable de tierra para respaldar el uso seguro del dispositivo.
4	VIEWER	Puerto recomendado para la conexión con una red, visor web.
5	VGA OUT	Puerto de salida de señal de vídeo VGA.
6	HDMI	Puerto de conector HDMI.
7	USB	Conecta los dispositivos USB. (Compatible con USB 3.0)
8	PoE (CAMERA)	Puerto de la fuente de alimentación para conectar a una cámara.
9	Alimentacion	Terminal al que se conecta la alimentacion.
10	Interruptor de encendido	Interruptor de encendido/apagado.

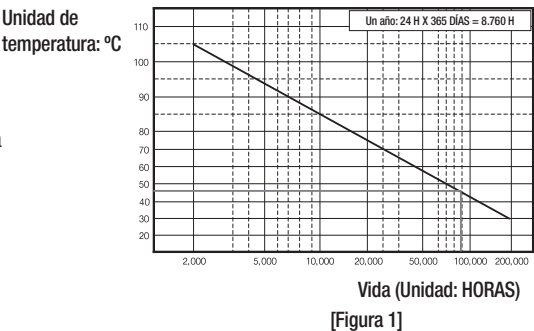
Antes de utilizar el producto tenga en cuenta la siguiente información.

- 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

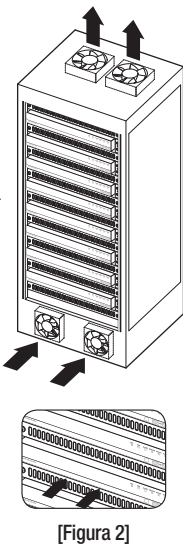
El producto es un dispositivo de seguridad de excelente calidad que está equipado con un disco duro de gran capacidad y con otras placas de circuito importantes.

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.

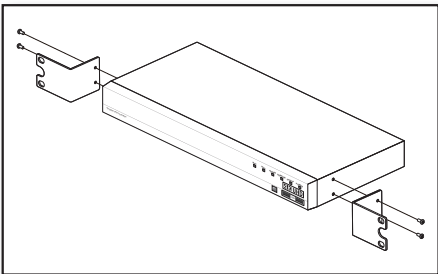
1. Asegúrese de que el interior del bastidor no esté sellado.
2. Asegúrese de que el aire circule por la entrada y salida como se muestra en la imagen.
3. Si apila los productos u otros dispositivos de montaje en bastidor como se muestra en la figura 2, asegure la ventilación en la sala o instale un 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.



<XRN-810S/QRN-1610S>

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 : XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S : Máximo 1
XRN-810S/QRN-1610S : Máximo 2
- 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.

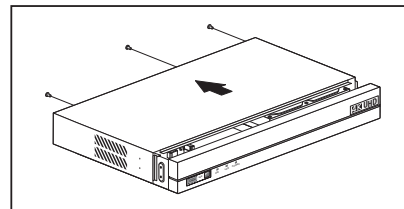
Instalación del disco duro

- ! 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.

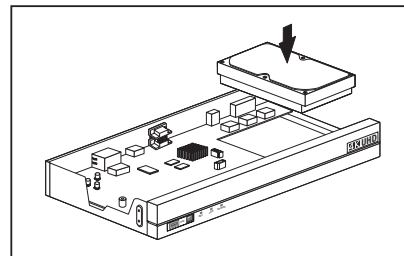
Cómo instalar un disco duro en XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S

- Las siguientes imágenes están basadas en el modelo XRN-410S.

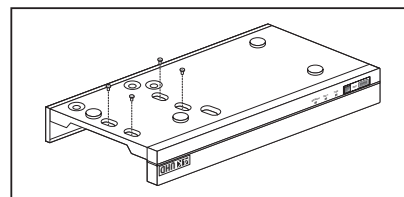
1. Después de desenroscar, empuje hacia atrás y retire la tapa.



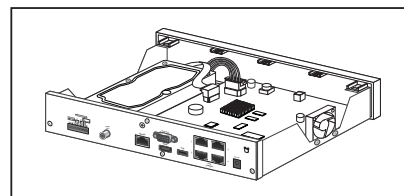
2. Conecte los cables de alimentación/SATA del HDD a los conectores de la placa base.



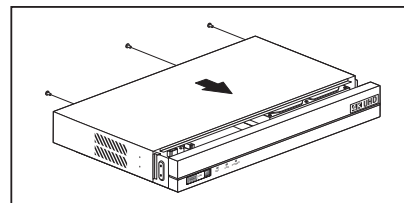
3. Con los tornillos, fije el HDD a la parte inferior del equipo.



4. Compruebe si hay algún problema en el terminal de conexión y en el cableado del producto, cierre la cubierta y fije con tornillos.



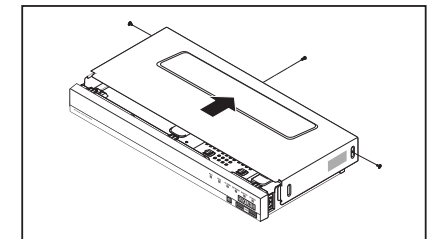
5. Cierre la cubierta y apriete un tornillo de fijación en la parte posterior.



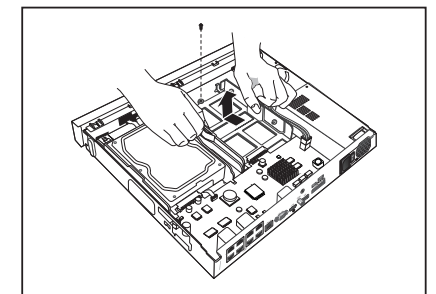
Cómo instalar un disco duro en XRN-810S/QRN-1610S

- Las siguientes imágenes están basadas en el modelo XRN-810S.

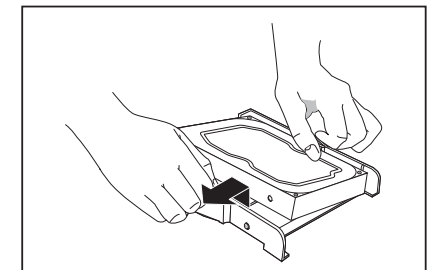
1. Después de desenroscar, empuje hacia atrás y retire la tapa.



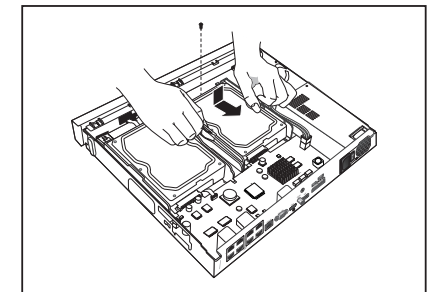
2. Sepárelos desenroscando el tornillo del soporte fijo y empujándolo hacia la flecha del tablero.



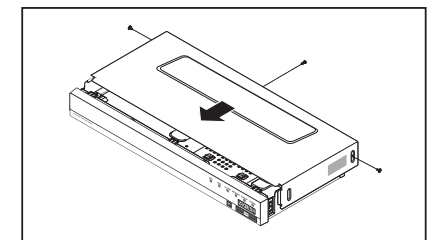
3. Después de alinear e insertar un lado del HDD en el soporte, abra completamente el otro soporte lateral e inserte el HDD entre ellos.
Alinee un agujero en el soporte con un agujero de tornillo en el HDD para fijarlos.



4. Empuje el soporte con el HDD instalado y apriete los tornillos para fijarlo.

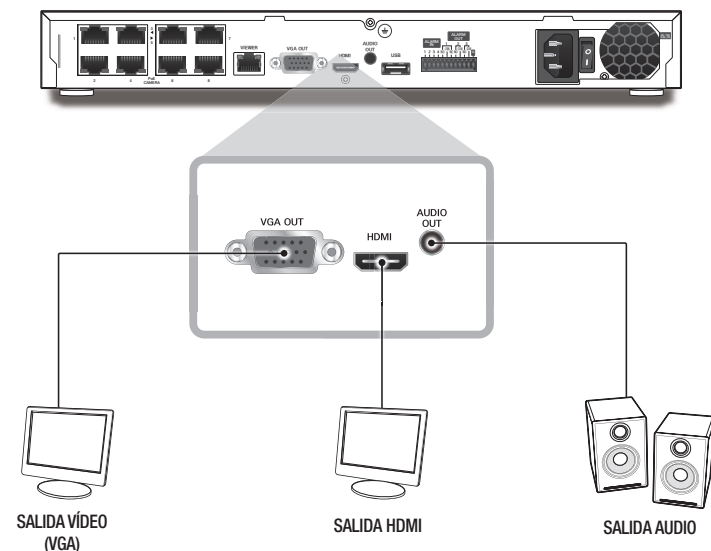


5. Cierre la tapa y apriete los tornillos para fijarlo.



CONEXIÓN A UN DISPOSITIVO EXTERNO

- Las siguientes imágenes están basadas en el modelo XRN-810S.

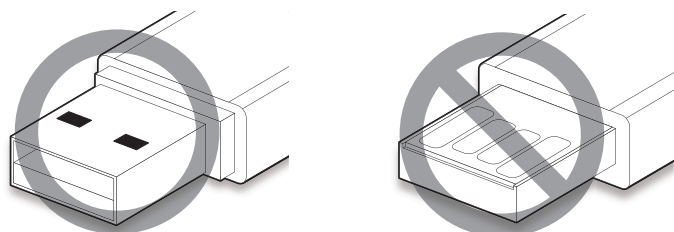


- Una fuente de alimentación inadecuada o con un valor nominal incorrecto puede causar daños en el sistema. Asegúrese de utilizar sólo la fuente de alimentación nominal antes de pulsar el botón de ALIMENTACIÓN.

CONEXIÓN DE USB

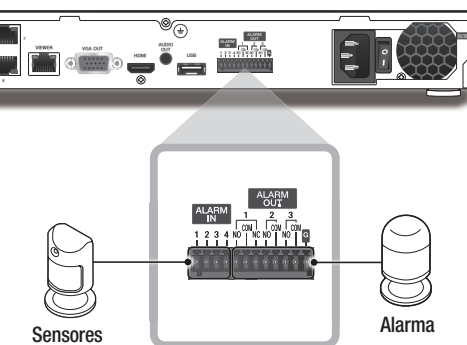
- En la parte frontal del producto, hay un puerto USB.
- Puede conectar al puerto USB un DD USB, una memoria USB o un ratón.
- HDD is not commonly used in Spanish. However, if the client chooses to use it: En caso de que su HDD USB esté conectado al sistema, puede detectarlo y configurarlo siguiendo los pasos en "Menú > Diispos. > Dispos. almac." del Manual del usuario de Wisenet NVR.
- 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.

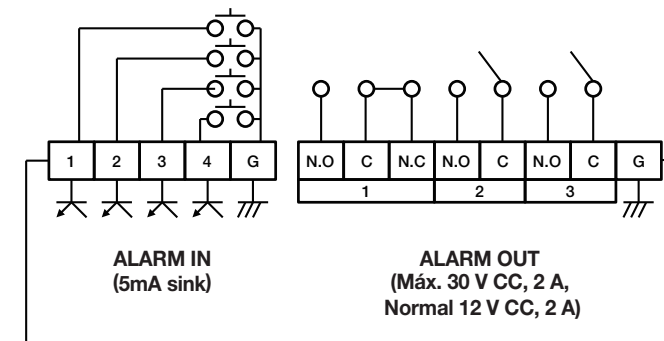


CONEXIÓN DE LA ENTRADA/SALIDA DE ALARMA

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



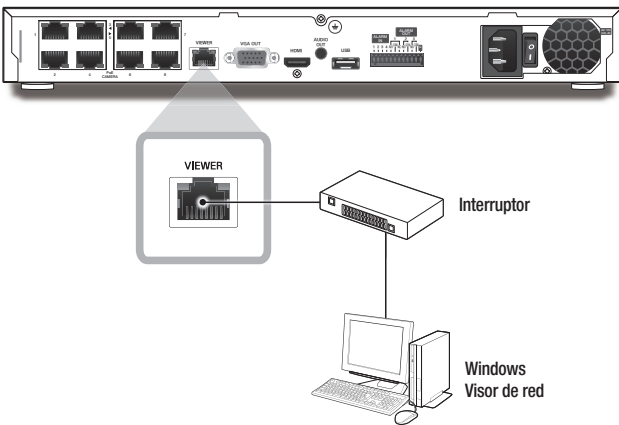
- ALARM IN 1 ~ 4 : puerto de entrada de alarma
- ALARM OUT 1 ~ 3 : puerto de salida de alarma



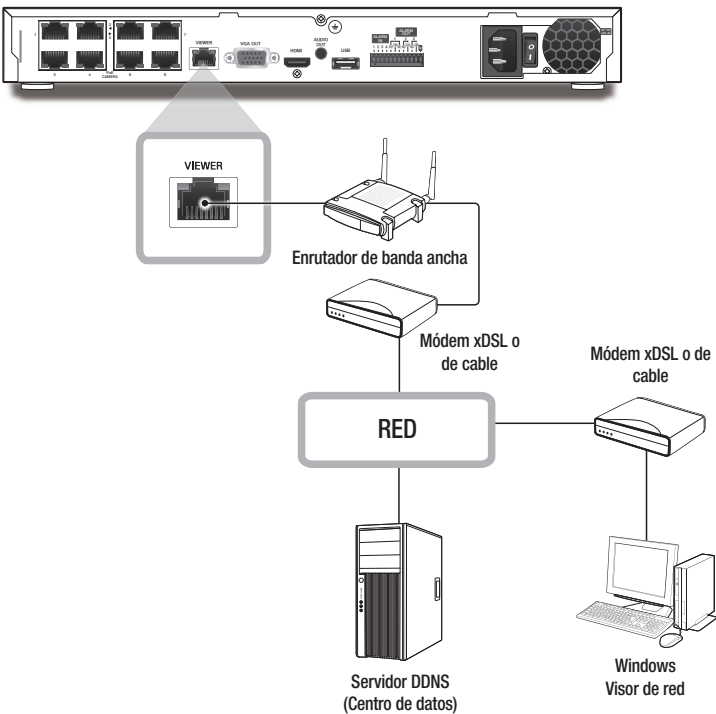
CONEXIÓN DE RED

- Para obtener más información sobre la conexión de red, consulte "Configuración de red" en el Manual del usuario de Wisenet NVR.
- Las siguientes imágenes están basadas en el modelo XRN-810S.

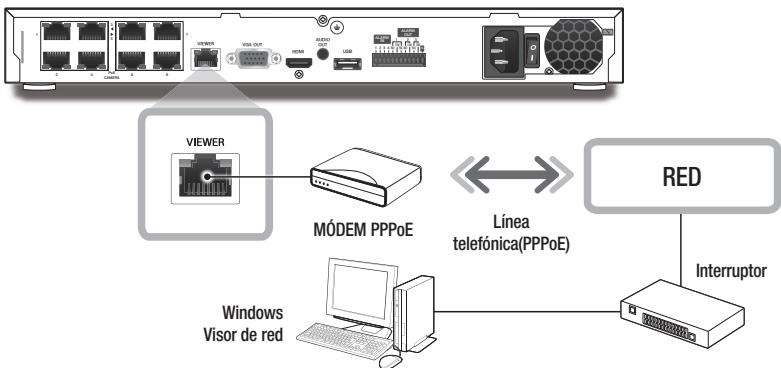
Conexión de red a través de Ethernet (10/100/1000BaseT)



Conexión de red a través de enrutador

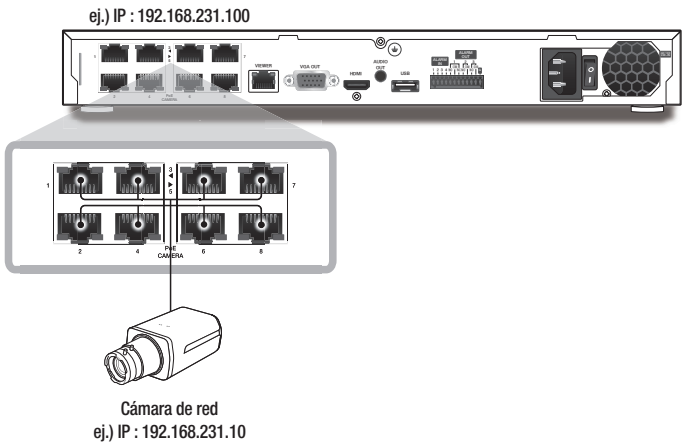


Conexión a Internet a través de PPPoE

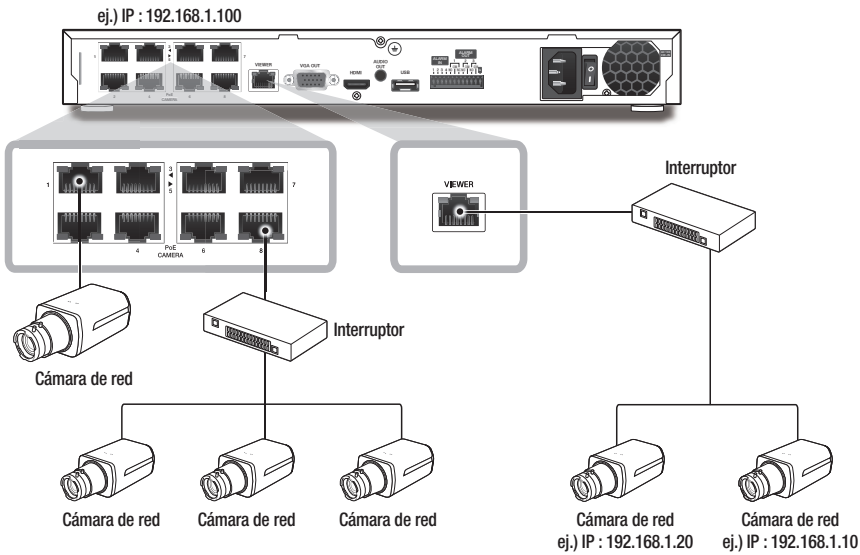


Conexión de la cámara de red

Ejemplo 1)



Ejemplo 2)



• XRN-410S/XRN-810S

Opción		Detalles	
		XRN-410S	XRN-810S
Pantalla			
Cámara de red	Entradas	Máx. 4 can.	Máx. 8 can.
	Resolución	CIF ~ 8MP	
	Protocolos	Wisenet, ONVIF	
En directo	Visualización local	1x HDMI(HDMI 1.4) / 1x VGA	
	Rendimiento	[Monitor local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - Sin embargo, para Mjpeg se admite hasta 2MP	
Rendimiento			
Sistema operativo	Incorporado	Linux	
Grabación	Compresión	H.265, H.264, MJPEG (Puede decodificar hasta 2M)	
	Ancho de banda de grabación	Máx. 50 Mbps	Máx. 100 Mbps
	Resolución	CIF ~ 8MP	
Búsqueda y reproducción	Ancho de banda de reproducción	32 Mbps (4 canales simultáneamente)	32 Mbps (8 canales simultáneamente)
	Rendimiento	Máx. 3 usuarios (Local 1, Remoto 3)	
	Simultaneous playback	Máx. 4 canales (Local, Red)	Máx. 8 canales (Local, Red)
	Resolution	CIF ~ 8MP	
	Control de reproducción	Avance/Retroces o rápido/lento, Avanzar un paso/Retroceder un paso	
Almacenamiento	Incorporado	0TB ~ 6TB (Dependiendo de la región) - Seagate : ~ 4TB	
	HDD interno	1 (Máx. 6TB)	2 (Máx. 12TB)

Opción		Detalles	
		XRN-410S	XRN-810S
Copia de seguridad	Copia de seguridad de archivos	BU/Exe(USB), JPG/AVI(Web, CMS)	
	Función	Reproducción multicanal (hasta 4 canales), fecha-hora / visualización de títulos	Reproducción multicanal (hasta 8 canales), fecha-hora / visualización de títulos
Sensor	E/S	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
Audio	Entrada	4 canales (Red)	8 canales (Red)
	Compresión	G.711, G.726, AAC(16/48KHz)	
	Comunicación de audio	Bidireccional	
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 Security DDNS	
Transmission Bandwidth		64 Mbps	128 Mbps
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		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11	
Web Browser		Visor web sin plug-in Navegadores compatibles: Google Chrome 47, MS Edge 20 Visor web de plugin Compatibles MS Explore 11, Apple Safari 9 * Mac OS X sólo	
Software visor	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile	
	Compatibilidad CMS	SDK/CGI (SUNAPI)	

Opción		Detalles	
		XRN-410S	XRN-810S
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	
Configuración fácil		Asistente de configuración (Idioma, Fecha/Hora, Red, Configuración automática de la cámara) Seleccionable entre el PnP y el modo manual (Codigo QR)	
Redundancy	ARB	Sí	
PTZ	Control	Vía GUI, Visor Web, 300 Ajustes predeterminados	
Smartphone	Modelo de apoyo	Android, iOS	
	Compatibilidad de protocolos	RTP, RTSP, HTTP, CGI (SUNAPI)	
Smartphone	Control	En vivo (4 canales): Soporte multiperfil Reproducción (1 canal) Inserción de eventos	En vivo (8 canales): Soporte multiperfil Reproducción (1 canal) Inserción de eventos
Control del sistema		Ratón, Web, IR Remocon	
Indicador/Interfaz			
Frontal	Indicador	LED (Indicador de estado) : 3EA LED 1EA de estado de alimentación LED 1EA de estado de alarma LED 1EA de estado de grabación	LED (Indicador de estado) : 6EA 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	1EA	
	HDMI	1EA - Soporte hasta 4K (3840 x 2160), 30Hz	

Opción		Detalles	
		XRN-410S	XRN-810S
Conectores	Audio	Out(1EA, RCA, Line)	
	Ethernet	■ 4EA (PoE/PoE+, 100 Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Enlace ascendente con CMS	■ 8EA (PoE/PoE+, 100 Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Enlace ascendente con CMS
	Alarm	Entrada(4EA, Bloque de terminales) Salida(2EA, Bloque de terminales)	Entrada(4EA, Bloque de terminales) Salida(3EA, Bloque de terminales)
	USB	2EA(Parte Frontal 1, Parte Posterior 1)	3EA(Parte Frontal 2, Parte Posterior 1)
	Almacenam.	-	
	Serial	-	
	Reinicio	Conmutador (1EA)	
	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		54V DC / 1.67A	100 to 240 VAC ±10%
Consumo de energía		Máx.13W(44BTU, 2TB HDD x 1ea)	Máx.19W(64BTU, 2TB HDD x 1ea)
Presupuesto PoE		Máx. 50W	Máx. 100W
Características mecánicas			
Color / Material		Negro / Metal	
Dimensiones (An. x Al. x P.)		An.300 x Al.47 x P.208.7mm (11.81"X1.85"X8.22") (1U)	An.370 x Al.44 x P.D320mm (14.57"X1.73"X12.6") (1U)
Peso		1.694Kg(2T HDD)	3.356kg(2T HDD)

• QRN-410/QRN-810

Opción		Detalles	
		QRN-410	QRN-810
Pantalla			
Cámara de red	Entradas	Máx. 4 can.	Máx. 8 can.
	Resolución	CIF ~ 8MP	
	Protocolos	Wisenet, ONVIF	
En directo	Visualización local	1x HDMI(HDMI 1.4) / 1x VGA	
	Rendimiento	[Monitor local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - Sin embargo, para Mjpeg se admite hasta 2MP	
Rendimiento			
Sistema operativo	Incorporado	Linux	
Grabación	Compresión	H.265, H.264, MJPEG (Puede decodificar hasta 2M)	
	Ancho de banda de grabación	Máx. 50 Mbps	Máx. 100 Mbps
	Resolución	CIF ~ 8MP	
Búsqueda y reproducción	Ancho de banda de reproducción	32 Mbps (4 canales simultáneamente)	32 Mbps (8 canales simultáneamente)
	Rendimiento	Máx. 3 usuarios (Local 1, Remoto 3)	
	Simultaneous playback	Máx. 4 canales (Local, Red)	Máx. 8 canales (Local, Red)
	Resolution	CIF ~ 8MP	
	Control de reproducción	Avance/Retroces o rápido/lento, Avanzar un paso/Retroceder un paso	
Almacenamiento	Incorporado	0TB ~ 6TB (Dependiendo de la región) - Seagate : ~ 4TB	
	HDD interno	1 (Máx. 6TB)	

Opción		Detalles	
		QRN-410	QRN-810
Copia de seguridad	Copia de seguridad de archivos	BU/Exe(USB), JPG/AVI(Web, CMS)	
	Función	Reproducción multicanal (hasta 4 canales), fecha-hora / visualización de títulos	Reproducción multicanal (hasta 8 canales), fecha-hora / visualización de títulos
Sensor	E/S	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
Audio	Entrada	4 canales (Red)	8 canales (Red)
	Compresión	G.711, G.726, AAC(16/48KHz)	
	Comunicación de audio	Bidireccional	
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 Security DDNS	
Transmission Bandwidth		64 Mbps	128 Mbps
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		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11	
Web Browser		Visor web sin plug-in Navegadores compatibles: Google Chrome 47, MS Edge 20 Visor web de plugin Compatibles MS Explore 11, Apple Safari 9 * Mac OS X sólo	
Software visor	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile	
	Compatibilidad CMS	SDK/CGI (SUNAPI)	

Opción		Detalles	
		QRN-410	QRN-810
Funciones			
Configuración fácil		Asistente de configuración (Idioma, Fecha/Hora, Red, Configuración automática de la cámara) Seleccionable entre el PnP y el modo manual (Codigo QR)	
Redundancy	ARB	Sí	
PTZ	Control	Vía GUI, Visor Web, 300 preset	
Smartphone	Modelo de apoyo	Android, iOS	
	Compatibilidad de protocolos	RTP, RTSP, HTTP, CGI (SUNAPI)	
Smartphone	Control	En vivo (4 canales): Soporte multiperfil Reproducción (1 canal) Inserción de eventos	En vivo (8 canales): Soporte multiperfil Reproducción (1 canal) Inserción de eventos
Control del sistema		Ratón, Web, IR Remocon	
Indicador/Interfaz			
Frontal	Indicador	LED 1EA de estado de alimentación LED 1EA de estado de alarma LED 1EA de estado de grabación	
Conectores	VGA	1EA	
	HDMI	1EA - Soporte hasta 4K (3840 x 2160), 30Hz	
Conectores	Audio	Out(1EA, RCA, Line)	
	Ethernet	1EA (WAN, 1Gbps) - WAN : Enlace ascendente con CMS	
	Alarm	Entrada(4EA, Bloque de terminales) Salida(2EA, Bloque de terminales)	Entrada(4EA, Bloque de terminales) Salida(3EA, Bloque de terminales)
	USB	Parte Frontal 1EA(USB2.0), Parte Posterior 1(USB3.0)	
	Almacenam.	-	
	Serial	-	
	Reinicio	Conmutador (1EA)	
	Cable de alimentación	Incluido	

Opción		Detalles	
		QRN-410	QRN-810
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		12V/4A	
Consumo de energía		Máx. 9W (31BTU, 2TB HDD x 1ea)	
Características mecánicas			
Color / Material		Negro / Metal	
Dimensiones (An. x Al. x P.)		An.300 x Al.47 x P.208.7mm (11.81"X1.85"X8.22") (1U)	
Peso		1.655Kg (2T HDD)	

• QRN-410S/QRN-810S/QRN-1610S

Opción		Detalles		
		QRN-410S	QRN-810S	QRN-1610S
Pantalla				
Cámara de red	Entradas	Máx. 4 can.	Máx. 8 can.	Máx. 16 can.
	Resolución	CIF ~ 8MP		
	Corrección de efecto Ojo de pez	N/D (proceso en la Web/CMS)		
	Protocolos	Wisenet, ONVIF, RTSP		
En directo	Visualización local	1x HDMI		1x HDMI / 1x VGA
	Rendimiento	[Monitor local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(120fps), 720p(120fps), D1(120fps)	[Monitor local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps)	[Monitor local] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(480fps), D1(480fps)
Rendimiento				
Sistema operativo	Incorporado	Linux		
Grabación	Compresión	H.265, H.264, MJPEG		
	Ancho de banda de grabación	Máx. 40 Mbps	Máx. 80 Mbps	Máx. 128 Mbps
	Resolución	CIF ~ 8MP		
Búsqueda y reproducción	Ancho de banda de reproducción	32 Mbps (4 canales simultáneamente)	32 Mbps (8 canales simultáneamente)	
	Rendimiento	Máx. 3 usuarios (Local 1, Remoto 3)		
	Simultaneous playback	Máx. 4 canales (Local, Red)	Máx. 8 canales (Local, Red)	Máx. 8 canales (Local), Máx. 16 canales (Red)
	Resolution	CIF ~ 8MP		
	Corrección de efecto Ojo de pez	N/D (proceso en la Web/CMS)		
	Control de reproducción	Avance/Retroces o rápido/lento, Avanzar un paso/Retroceder un paso		
Almacenamiento	Incorporado	N/D		
	HDD interno	1 (Máx. 6TB)		2 (Máx. 12TB)

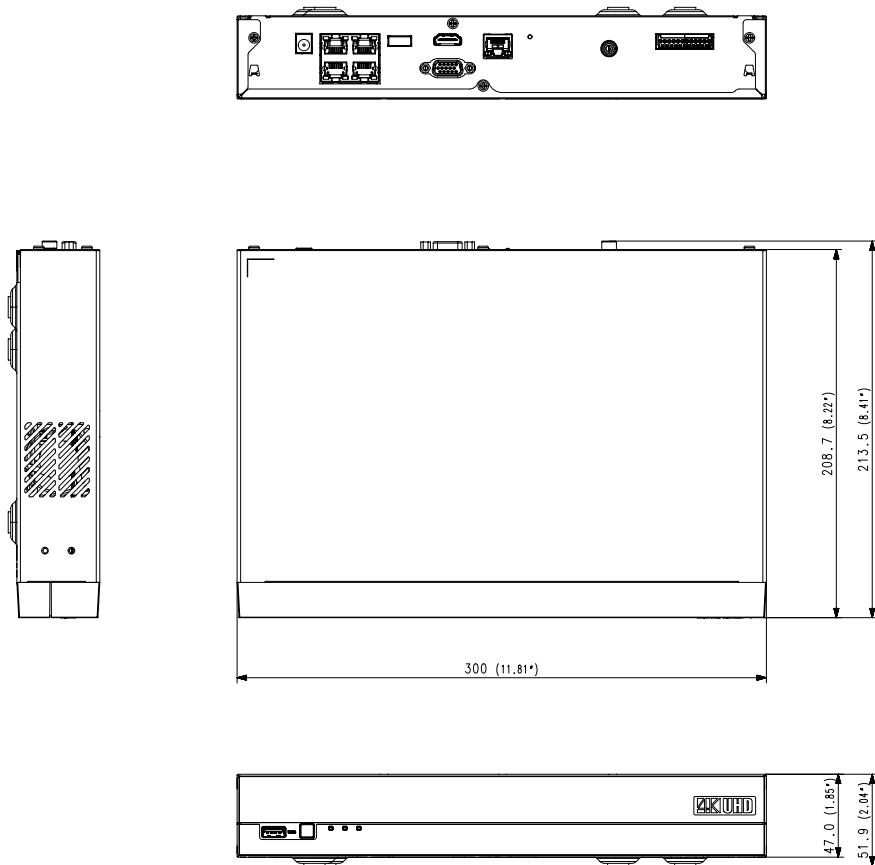
Opción		Detalles		
		QRN-410S	QRN-810S	QRN-1610S
Copia de seguridad	Copia de seguridad de archivos	BU/Exe(USB), JPG/AVI(Web, CMS)		
	Función	Reproducción multicanal (hasta 4 canales), fecha-hora / visualización de títulos	Reproducción multicanal (hasta 8 canales), fecha-hora / visualización de títulos	
Sensor	E/S	N/D		4/2 (NO 1EA, NO/NC 1EA)
Audio	Entrada	4 canales (Red)	8 canales (Red)	16 canales (Red)
	Compresión	G.711, G.726, AAC(16/48KHz)		
	Comunicación de audio	Bidireccional		
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 Security DDNS		
Transmission Bandwidth		50 Mbps	80 Mbps	128 Mbps
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		
SO		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11		
Web Browser		Visor web sin plug-in Navegadores compatibles: Google Chrome 47, MS Edge 20 Visor web de plugin Compatibles MS Explore 11, Apple Safari 9 * Mac OS X sólo		
Software visor	Tipo	SSM, Webviewer, SmartViewer, Wisenet Mobile		
	Compatibilidad CMS	SDK/CGI (SUNAPI)		
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		

Opción		Detalles		
		QRN-410S	QRN-810S	QRN-1610S
Configuración fácil		Asistente de configuración (Idioma, Fecha/Hora, Red, Configuración automática de la cámara) Seleccionable entre el PnP y el modo manual (Codigo QR)		
ARB		Sí		
PTZ	Control	Vía GUI, Visor Web, 300 Ajustes predeterminados		
Smartphone	Modelo de apoyo	Android, iOS		
	Compatibilidad de protocolos	RTP, RTSP, HTTP, CGI (SUNAPI)		
	Control	En vivo (4 canales): Soporte multiperfil Reproducción (1 canal) Inserción de eventos	En vivo (8 canales): Soporte multiperfil Reproducción (1 canal) Inserción de eventos	En vivo (16 canales): Soporte multiperfil Reproducción (1 canal) Inserción de eventos
	Máx. de usuarios remotos	Búsqueda (3) / En vivo Unicast (10) / En vivo Multicast (20)		
Control del sistema		Ratón, Web	Ratón, Web, Control remoto Infrarrojo	
Indicador/Interfaz				
Frontal	Indicador	LED (Indicador de estado) : 3EA LED 1EA de estado de alimentación LED 1EA de estado de alarma LED 1EA de estado de grabación		LED (Indicador de estado) : 6EA 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	N/D		1EA(1920x1080, 1280x1024, 1280x720, 1024x768)
	HDMI	1EA (3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720, 1024x768)		
	Audio	N/D		Out(1EA, RCA)
	Ethernet	■ 4EA (PoE, 100 Mbps) ■ 1EA (WAN, 100Mbps) - WAN : Enlace ascendente con CMS	■ 8EA (PoE/PoE+, 100 Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Enlace ascendente con CMS	■ 16EA (PoE/PoE+, 100 Mbps) ■ 1EA (WAN, 1Gbps) - WAN : Enlace ascendente con CMS

Opción		Detalles		
		QRN-410S	QRN-810S	QRN-1610S
Conectores	Alarm	N/D		Entrada(4EA, Bloque de terminales) Salida(2EA, Bloque de terminales)
	USB	Parte Frontal 1EA(USB2.0), Parte Posterior 1EA(USB3.0)		Parte Frontal 2EA(USB2.0), Parte Posterior 1(USB3.0)
	Reinicio	Conmutador (1EA)		
	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		54V DC / 1.20A	54V DC / 1.67A	100 to 240 VAC
Consumo de energía		Máx. 47W(1HDD, PoE encendido) Máx. 7.4W(1HDD, PoE apagado)	Máx. 76.2W(1HDD, PoE encendido) Máx. 8.1W(1HDD, PoE apagado)	Máx. 158.2W (2HDDs, PoE encendido) Máx. 34.6W (2HDDs, PoE apagado)
Presupuesto PoE		Máx. 30W	Máx. 50W	Máx. 130W
Características mecánicas				
Color / Material		Negro / Metal		
Dimensiones (An. x Al. x P.)		An.300.0 x Al.47.1 x P.208.4 mm(1U)		An.370.0 x Al.44.0 x P.320 mm(1U)
Peso		0.99Kg	1.01Kg	2.79Kg

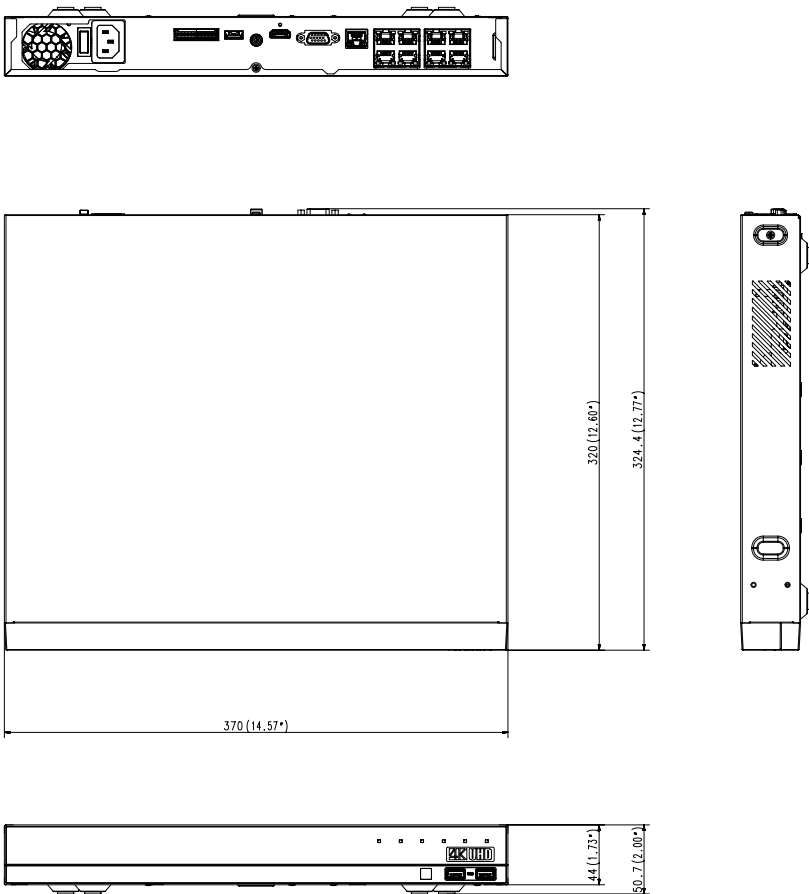
• XRN-410S

unidad : mm (pulg.)



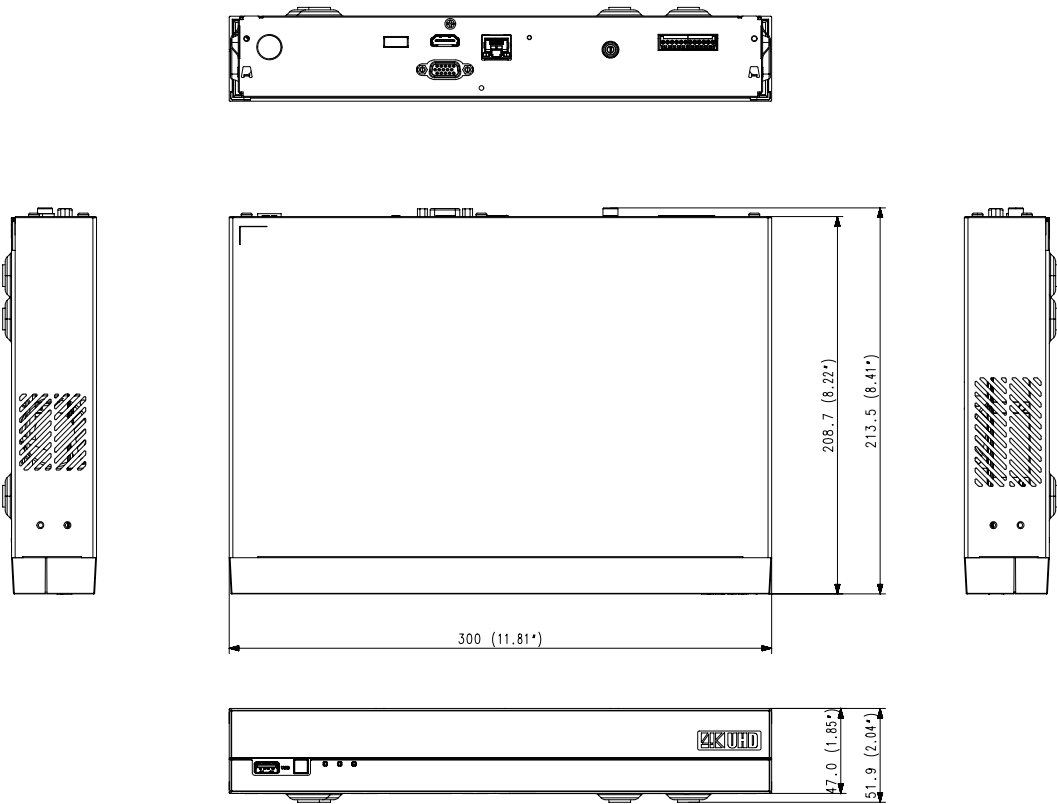
• XRN-810S

unidad : mm (pulg.)



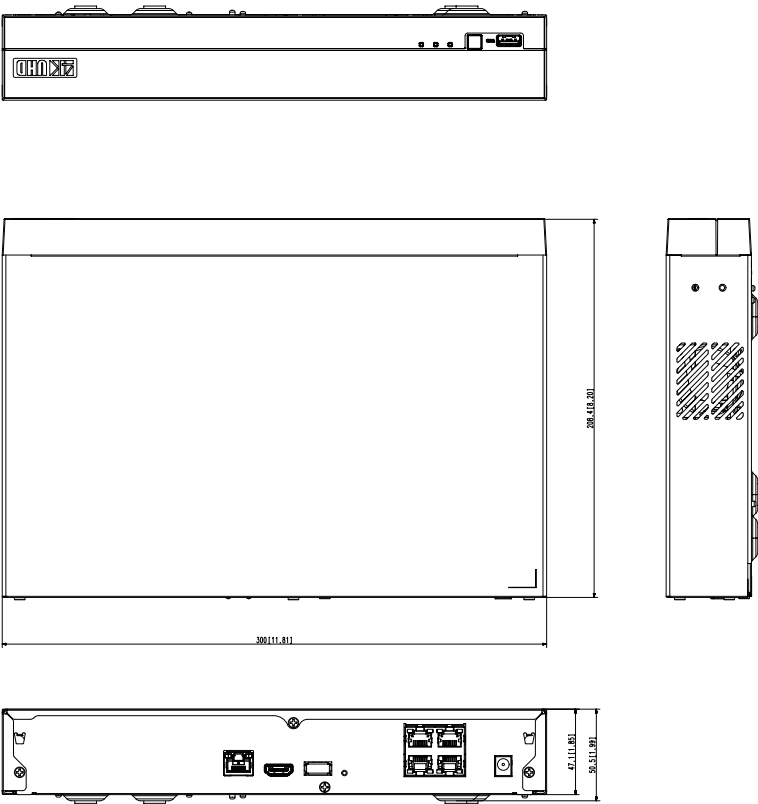
• QRN-410/QRN-810

unidad : mm (pulg.)



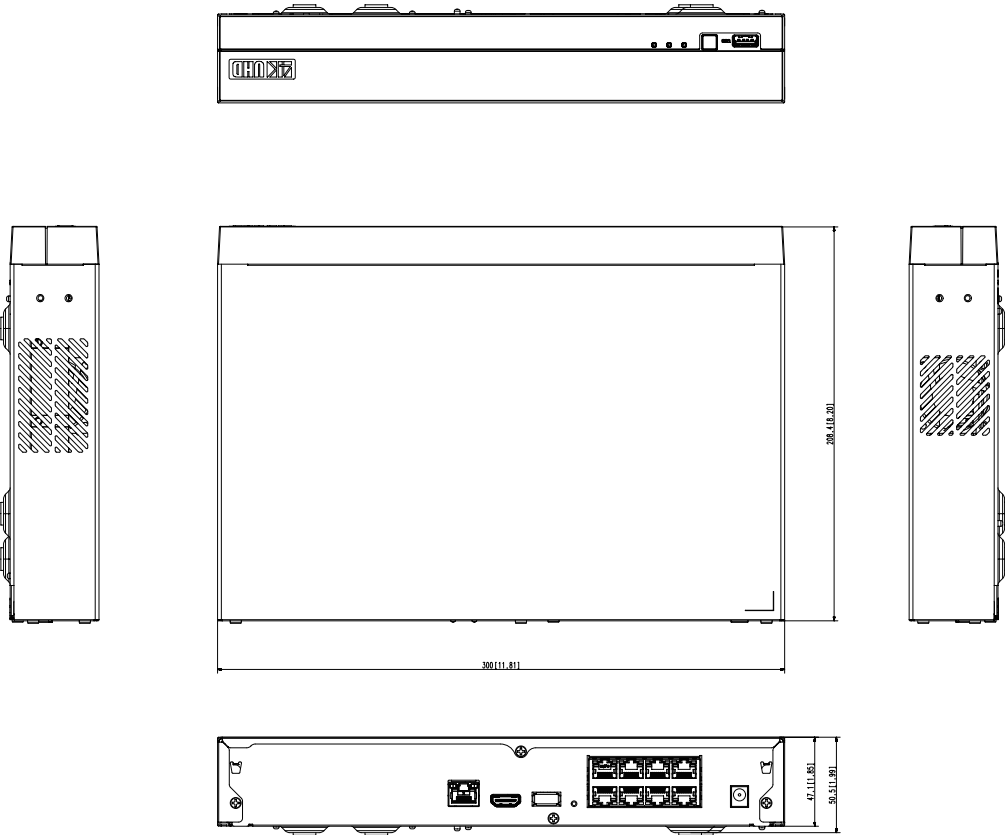
• QRN-410S

unidad : mm (pulg.)



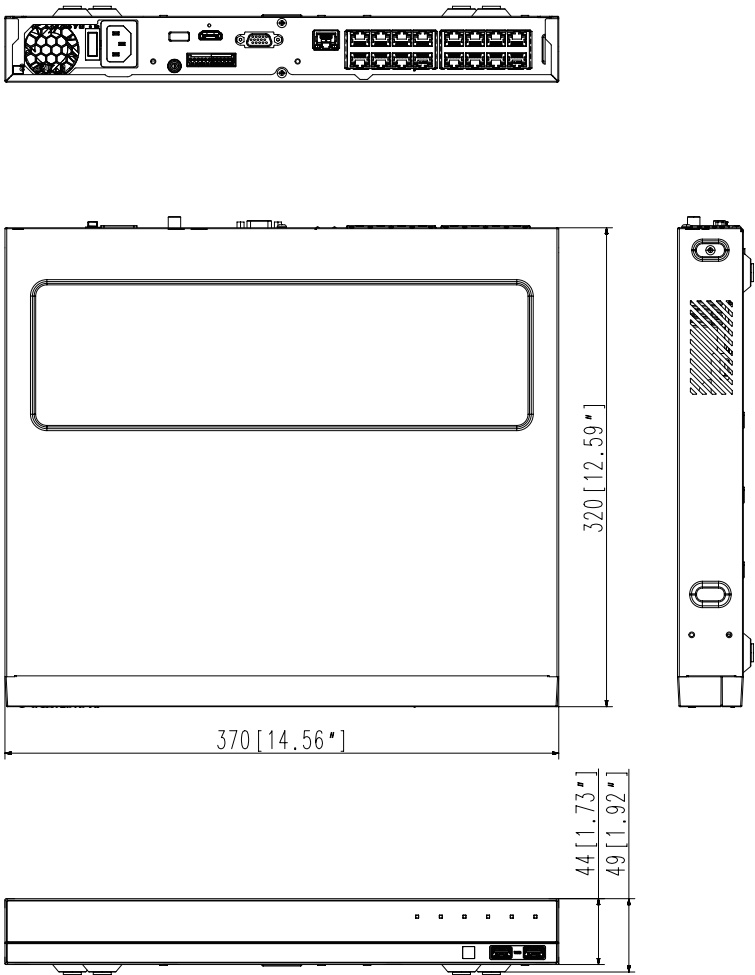
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Version 1.1

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- [30]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
- [31]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
- [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
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- [46]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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