

WISeNeT

网络视频录像机

产品配置说明书

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



网络视频录像机 产品配置说明书

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- ❖ 初始管理员 ID 是“admin”，密码应在首次登录时设置。
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 请注意，用户应负责安全以及密码管理不善导致的其他问题。

重要安全说明

- 使用装置前请仔细阅读这些操作说明。
请按照下面列出的安全说明操作。
请将这些操作说明放在方便处、以供将来参考。
- 1) 请阅读这些说明。
 - 2) 请妥善保管这些说明。
 - 3) 注意所有警告。
 - 4) 请遵循所有说明。
 - 5) 切勿在近水处使用本设备。
 - 6) 使用柔软干布或湿布清洁产品表面的污染区域。
(请勿使用含有酒精、有机溶剂或表面活性剂、或含油成分的清洁剂或化妆品，此类物质可能使产品变形或受损。)
 - 7) 请勿堵塞任何通风口。根据厂商的说明进行安装。
 - 8) 不要将本设备安装在任何靠近热源例如电暖炉、暖气片、或其他(包括扩音器)会产生热气的设备。
 - 9) 请勿忽略极化或接地型插头的安全保护用途。极化型插头具有两边、有一边较另一边宽。
接地型插头具有两 边和第三端接地插脚。该宽边或第三端插脚是为您的安全而提供的。
如果所提供的插头不适用于您的插座、请联系电工更换旧插座。
 - 10) 保护电线以防践踏或被挤压、特别是插头处、便利插座处以及设备接出处的电线。
 - 11) 只使用厂商指定的附加装置/附件。
 - 12) 仅可使用厂商指定或随设备出售的运载车、支脚、三脚架、支架或工作台。
使用运载车 时、请小心避免在移动运载车/设备组合时翻覆。
 - 13) 在雷雨天气或长时间不用的情况下、请拔下本设备的插头。
 - 14) 所有维修应由合格的维修人员执行。设备在具有任何方式的损坏时需要维修服务、如电源线或插头损坏、设备内溅入液体或落入杂物、设备曾淋雨或浸水无法正常操作、或是跌落。



使用前须知

- 本手册提供使用产品所需的操作信息、并且包含关于每个零部件及其功能和菜单或网络设置的说明。
您必须牢记下列注意事项：
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 - 如果没有事先得到 Hanwha Techwin 的书面允许、严禁复制本手册。
 - 对于由于使用非标准产品或不按照本手册中的说明使用产品而造成的任何损失、我们概不负责。
 - 如果您要打开系统的机箱检查是否存在问题、请咨询购买产品所在商店的专家。
 - 在添加硬盘或外部存储器（USB 内存、USB 硬盘等等）之前、请检查它与本产品是否兼容。 有关兼容性列表、请与零售商联系。

警告

电池

- 在产品中换用不正确的电池可能会导致爆炸。因此、您必须使用与产品中正在使用的电池同类的电池。
以下是您现在正在使用的电池的规格。
- 标准电压：3V
 - 标准容量：210mAh
 - 连续标准负载：0.4mA
 - 操作温度：-20°C ~ +60°C (-4°F ~ +140°F)

注意

- 设备上不应放置诸如花瓶一类的装满液体的物品。
- 接入本设备的有线网络天线必须与保护接地隔离,否则可能会引起着火等危险。
- 将电源线连接到接地的插座。
- 将市电插头用作断开连接设备、它应该随时都可操作。
- 不应该将电池放在强热中、例如阳光下、火上或类似的物体中。
- 如果换用类型不正确的电池、那么会有发生爆炸的风险。 请按照说明处置用过的电池。
- HDD 使用寿命结束时，存储的视频数据可能会受损，且无法恢复。
- 系统正面的 HDD LED 状态指示灯持续闪烁表示系统与 HDD 之间的连接正常。定期查看 HDD LED 状态指示灯是否持续闪烁。出现 HDD 故障时可能无法进行录制。定期查看录制状态并定期备份重要数据。

系统关闭

如如果在产品操作时关闭电源或用不允许的操作关闭电源、都可能会导致硬盘和产品损坏。
按下屏幕关闭弹出窗口中的<确定>，然后拔下电源线，确保电源安全关闭。
您可能需要安装 UPS 系统来保证安全操作、以防电源意外中断所导致的损坏。(有关 UPS 的任何问题、请向您的 UPS 零售商咨询。)

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- 如果异常关闭电源、则重新启动可能需要较长时间、以便从硬盘恢复数据以正常操作。

操作温度

本产品的允许操作温度范围是 0° C ~ 40° C (32° F ~ 104° F)。
若在低于允许温度下长时间存储、本产品将无法立即正确操作。
当要使用在低温下长时间存储后的设备时、请将产品放置在室温中一段时间、然后再运行。
必须特别注意产品中的内置 HDD、其允许温度范围是 5° C ~ 55° C (41° F ~ 131° F)。
同样、如果在低于允许温度的温度下使用、硬盘可能无法正常工作。

以太网端口

本设备供在室内使用、所有通信接线都限制为在楼宇内进行。

安全注意事项

初始管理员 ID 是 “admin”，密码应在首次登录时设置。
请每隔三个月更改密码以保护个人信息并避免因信息失窃造成损失。
请注意，用户应负责安全以及密码管理不善导致的其他问题。

支持功能别NVR产品

功能	产品目录
风扇	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
遥控器	QRN-1610S, XRN-810S, QRN-810, QRN-810S, XRN-410S, QRN-410, QRN-410S ■ 受销售地区限制，QRN-410/QRN-410S 和 XRN-410S 型号设备可能不支持遥控器。

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特性

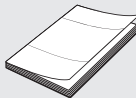
- 本产品会将来自网络摄像机的视频和音频录制到硬盘、并允许从硬盘进行播放。它还提供远程监视环境、可使用远程计算机通过网络远程监视视频和音频。
- 用户友好界面
 - 支持各种 4K 摄像机分辨率
 - 使用 HDMI 输出 4K 高清晰度图像
 - 录制和播放视频
 - 录制和播放音频
 - 支持 ONVIF Profile S 标准和 RTP / RTSP 协议
 - 通过 HDD SMART 显示硬盘操作状态
 - 启用硬盘覆盖
 - 使用 USB 2.0, 3.0 协议和外接硬盘备份
 - 同时播放 4、8 个频道
 - 多种搜索模式(时间、事件、Smart、文本、备份、ARB)
 - ARB 支持（按频道保存时间段的配置功能）
 - 多种录制模式(正常、事件、计划录制)
 - 警报输入/输出
 - 通过 Windows 网络查看器进行的远程监视功能
 - 网络摄像机的现场监视
 - 安装向导功能（简易设置、快速设置）
 - 支持基于 P2P 的智能手机远程监控功能
 - 提供智能手机事件提醒（发送实时事件消息）

包装内容

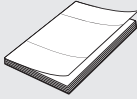
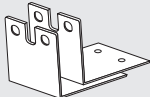
请拆开产品的包装、将产品放在平坦的位置或待安装位置。
请检查除了主装置之外、是否包括下列内容。

- 配件种类和数量会根据销售区域的不同而有所差异。

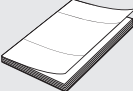
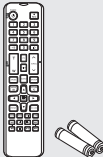
XRN-410S/QRN-410/QRN-410S

		
NVR	鼠标	电源线
		
电源适配器	简介遥	接线端子 (不适用于 QRN-410S)
		
硬盘安装螺钉 (适用于尚未安装 HDD 的型号)	SATA 电源线 (适用于尚未安装 HDD 的型号)	

XRN-810S/QRN-1610S

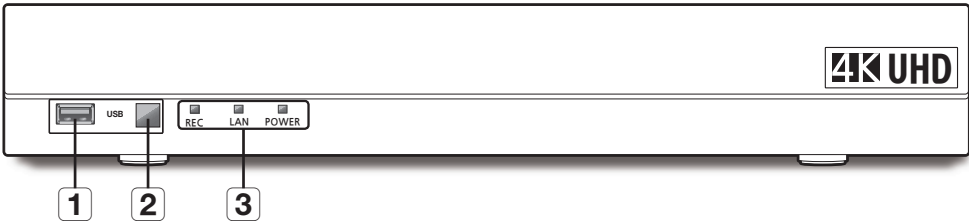
		
NVR	鼠标	电源线
		
简介遥	接线端子	遥控器 / 遥控器电池 (AAA)
		
支架	支架固定螺丝	

QRN-810/QRN-810S

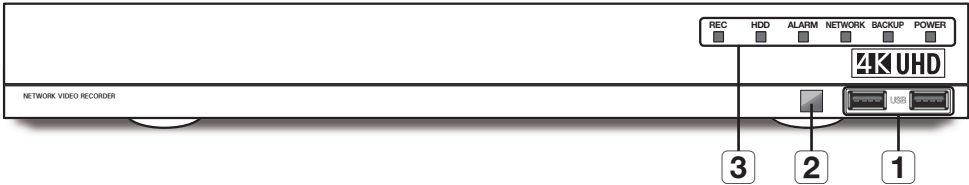
		
NVR	鼠标	电源线
		
电源适配器	简介遥	接线端子 (不适用于 QRN-810S)
		
遥控器 / 遥控器电池 (AAA)	硬盘安装螺钉 (适用于尚未安装 HDD 的型号)	SATA 电源线 (适用于尚未安装 HDD 的型号)

部件名称与功能(前面)

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



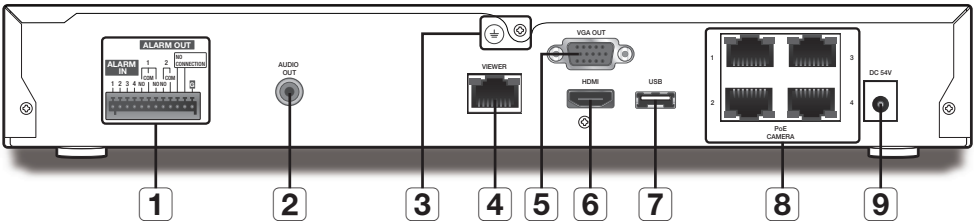
XRN-810S/QRN-1610S



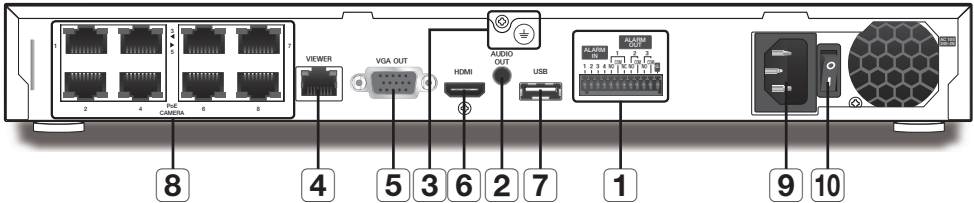
部件名称		功能
1	USB	连接 USB 设备。(支持 USB 2.0)
2	远程接收系统	接收来自遥控器的信号。
3	LED 指示灯	REC : 当正在进行录制时亮起。
		HDD : 显示正常访问硬盘。 正在访问硬盘时、LED 会亮起。(XRN-810S/QRN-1610S)
		ALARM : 发生事件时亮起。(XRN-810S/QRN-1610S)
		NETWORK (LAN) : 显示网络连接和数据传输状态。
		BACKUP : 运行备份功能时保持开启。(XRN-810S/QRN-1610S)
		POWER : 显示电源打开/关闭状态。

部件名称与功能(背面)

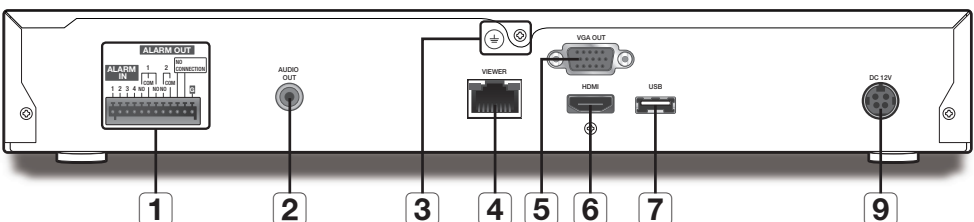
XRN-410S



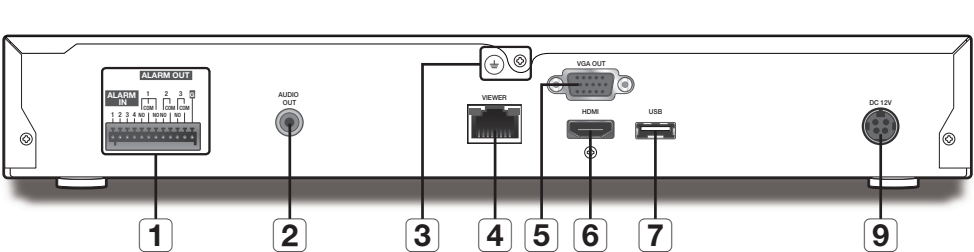
XRN-810S



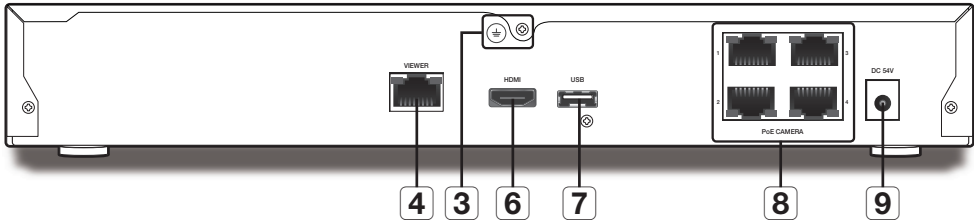
QRN-410



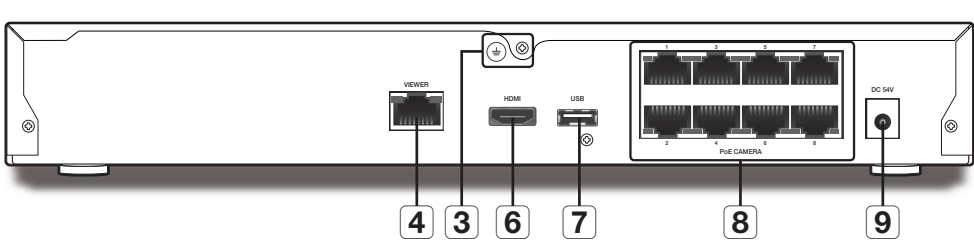
QRN-810



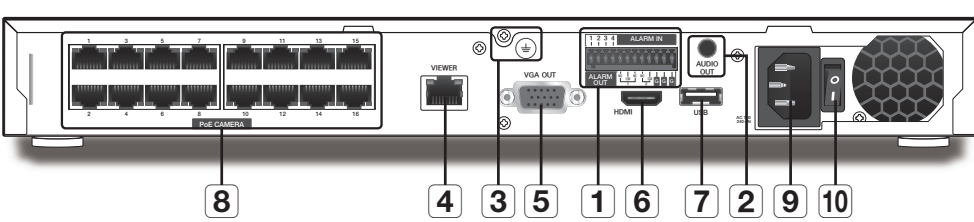
QRN-410S



QRN-810S



QRN-1610S



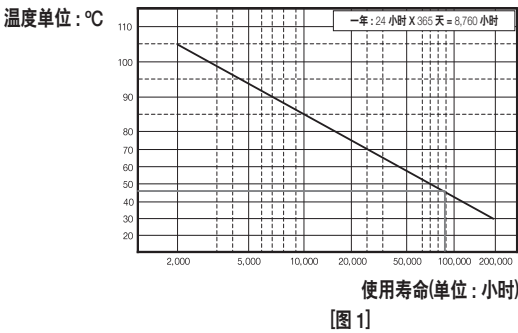
部件名称		功能
1	ALARM	- ALARM IN : 警报输入端口。(1~4 CH) - ALARM OUT : 警报输出端口。 XRN-410S/QRN-410/QRN-1610S : 1~2 CH XRN-810S/QRN-810 : 1~3 CH
2	AUDIO OUT	音频信号输出端口(RCA 插孔)。
3	接地连接	用于连接独立接地电缆的终端。 ■ 添加一根接地电缆，保证设备的安全使用性。
4	VIEWER	建议用于网络、web 查看器连接的端口。
5	VGA OUT	VGA 视频信号输出端口。
6	HDMI	HDMI 连接器端口。
7	USB	连接 USB 设备。(支持 USB 3.0)
8	PoE (CAMERA)	连接摄像机的电源端口。
9	电源	电源线连接到的端子。
10	电源开关	电源开关。

在使用产品之前、请了解下列事项。

- 切勿在室外使用本产品。
- 切勿使水或液体溅湿产品的连接部件。
- 切勿使系统处于震动或摇晃激烈的环境。
- 切勿强行拔出电源线。
- 切勿自行拆解本产品。
- 切勿超出额定的输入/输出范围。
- 仅使用通过认证的电源线。
- 对于输入接地的产品、使用接地的电源插头。

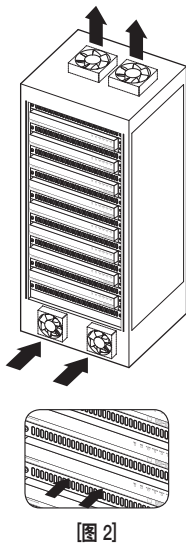
检查安装环境

本产品是顶尖的安防设备、配有高容量硬盘和其他重要的电路板。
请注意、产品内部温度过高可能会导致系统故障或产品寿命缩短(请参见右图)。在安装产品之前、须牢记下列说明。



当将本产品安装在支架上时、请按照下面的说明操作。

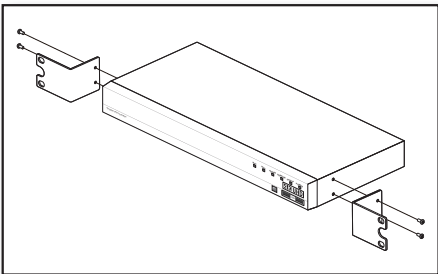
1. 请确保机架内部不是密封的。
2. 请确保空气可以通过进风口和出风口循环。
3. 如果象图 2 所示那样层叠安装产品或其他支架安装式设备、请确保留出通风的空间或安装通风口。
4. 为了形成空气自然对流、请将进风口放到机架的底部、将出风口放在顶部。
5. 强烈建议在进风口和出风口处安装风扇马达、加强空气循环。(请在进风口处安装滤网、过滤出灰尘或异物。)
6. 请让机架内部和周围区域的温度保持在 0°C 到 40° C (32° F 到 104° F) 之间、如图 1 所示。



机架安装

如图所示安装支架架、然后拧紧两侧的螺钉。

- 紧固螺钉、这样即使摇晃也不会松动。



<XRN-810S/QRN-1610S>

添加硬盘

确保从墙上插座上拔下电源线插头、以防止遭受电击、伤害或产品损坏。
请咨询您的提供商以获得关于硬盘安装的更多信息、因为不正确的安装或设置可能会损坏产品。

- 支持的硬盘数 : XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S : Max. 1
XRN-810S/QRN-1610S : Max. 2
- 在进行安装之前、确保从墙上插座上拔下电源线插头。



- **数据丢失注意事项(硬盘保管)**
请千万注意、避免硬盘中的数据被损坏。
在添加硬盘之前、请检查与本产品的兼容性。
硬盘会因为其敏感的性质而容易发生功能异常、如果在操作时受到震动则情况尤甚。
请确保硬盘不受震动等影响。
对于用户粗心大意或滥用引起的硬盘损坏、我们概不负责。
- **可能会导致硬盘或记录的数据损坏的情况**
为了降低因硬盘损坏而遗失数据的风险、请尽量频繁备份数据。
如果在拆解或安装时受到电击、存储在硬盘中的数据可能会损坏。
正在执行硬盘操作时电源突然中断或关闭产品可能会损坏硬盘。
如果在硬盘操作期间移动主体或受到冲击、可能会损坏硬盘或存储在其中的文件。

安装硬盘时的注意事项

1. 切勿对硬盘过度用力。
 - 如果没有正确地将螺钉或附件连接在一起、产品将会报废或无法正常操作。
2. 注意不要遗失拆卸螺钉或附件。
 - 如果没有正确地将螺钉或附件连接在一起、产品将会报废或无法正常操作。
3. 在添加硬盘之前、请检查硬盘兼容性。
 - 请与离您最近的经销商联系、以获得兼容设备列表。

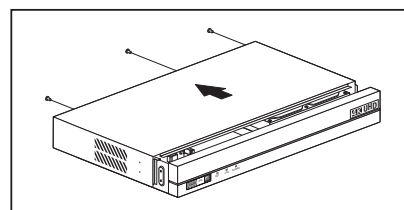
硬盘安装

- ❗ 如在最初已安装的 HDD 之外，要向该产品中添加一个新的或之前用过的 HDD，在使用前要手动对新 HDD 进行格式化。样式请参考 Wisenet NVR 说明书中的“设备/格式”。

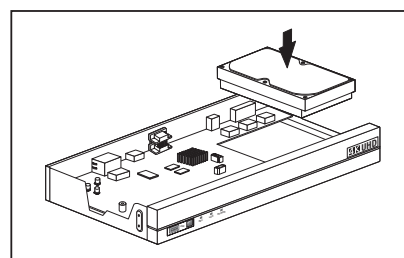
如何在 XRN-410S/QRN-410/QRN-810/QRN-410S/QRN-810S 中安装硬盘

- 🔗 下面的图片基于型号 XRN-410S。

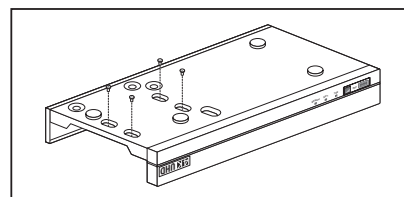
1. 拧下螺丝之后，向后推顶盖即可将其卸下。



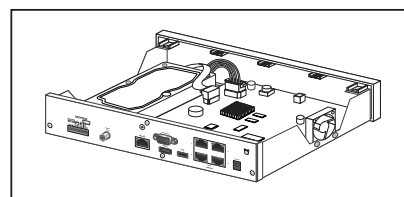
2. 将 HDD SATA/电源线连接至主板上的连接器。



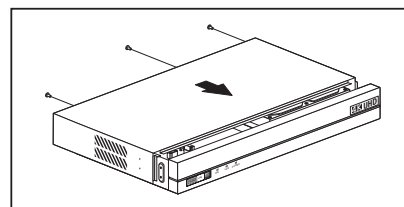
3. 用螺丝将 HDD 固定至设备底部。



4. 检查连接终端和产品布线，确认无误后闭合顶盖并用螺丝将其固定。



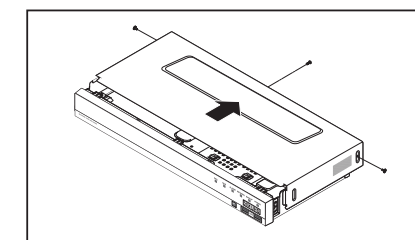
5. 盖上顶盖，拧紧背面的固定螺丝。



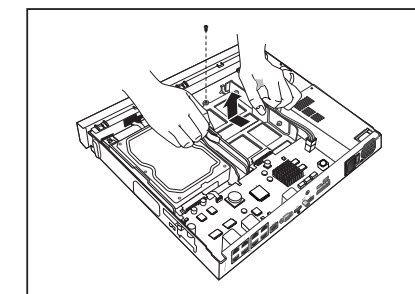
如何在 XRN-810S/QRN-1610S 中安装硬盘

- 🔗 下面的图片基于型号 XRN-810S。

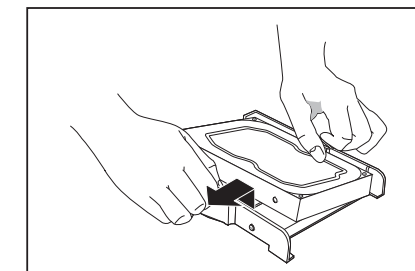
1. 拧下螺丝之后，向后推顶盖即可将其卸下。



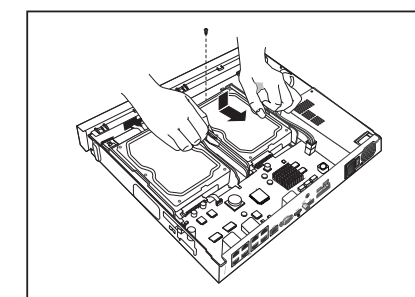
2. 拧下固定的支架螺丝并按照主板上箭头方向推动即可将其卸下。



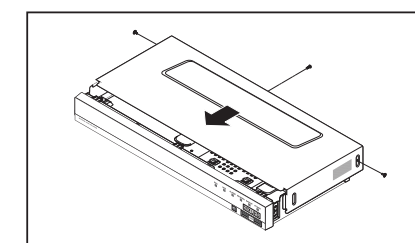
3. 对齐并将 HDD 的一侧插入支架中，然后尽量完全打开另一侧支架，将 HDD 插入其中。
■ 将支架上的孔与 HDD 上的螺丝孔对齐以固定。



4. 推动已安装有 HDD 的支架，拧紧螺丝以固定。

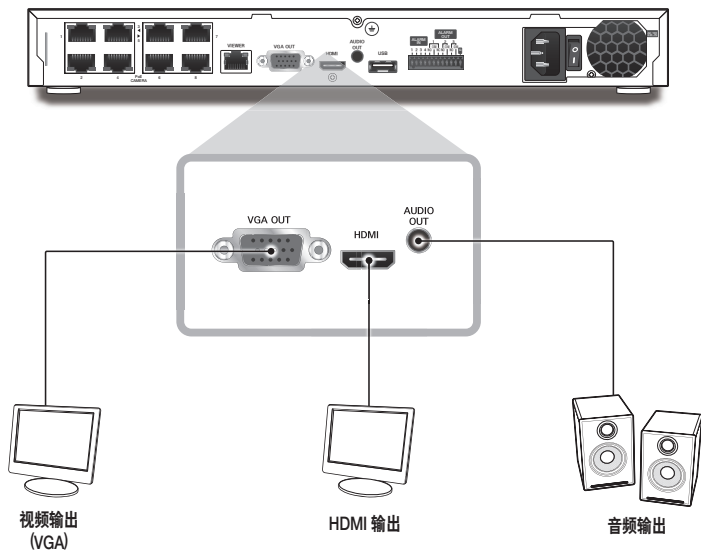


5. 盖上顶盖，并拧紧螺丝以固定。



连接至外部设备

下面的图片基于型号 XRN-810。



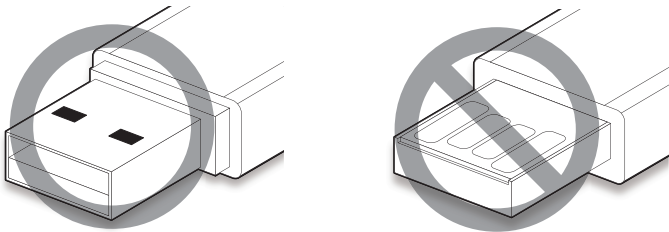
! 非额定或不正确的电源可能会导致损坏系统。在按“电源”按钮之前、请确定您仅使用额定电源。

连接 USB

- 1. 在本产品前面有一个 USB 端口。
- 2. 您可以将 USB 硬盘、USB 存储器或鼠标连接到 USB 端口上。
- 3. 如果USB HDD连接到系统，可通过Wisenet NVR说明书中的"菜单 > 设备 > 存储设备" 进行识别及设置。
- 4. 本产品支持热拔插功能、此功能允许当正在使用系统时连接/断开 USB 设备。

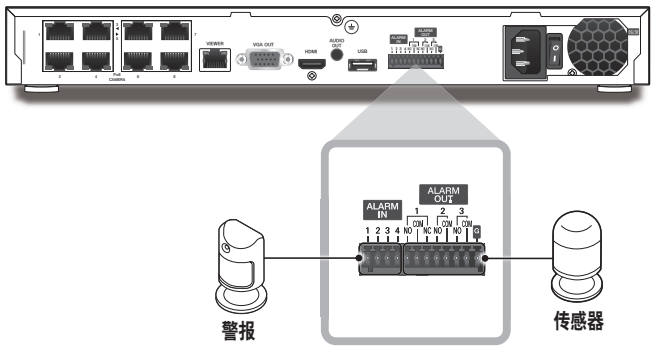
! 如果将 USB 设备用于备份、并且尚未在 NVR 上将其格式化、请在计算机上用 FAT32 将其格式化。

- 因为部分USB装置存在兼容性问题，使用时可能会出现异常、请您事前确认后再使用。
- 我们只能保证使用标准USB存储装置（表面金属类型）可以正常使用,但如果USB接口出现磨损。
- 也可能导致USB信号传输异常,导致使用中出現异常。

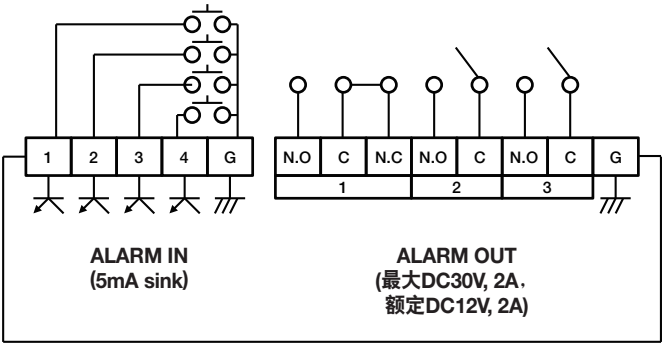


连接警报输入/输出

背面的警报输入/输出端口由下列各项组成。



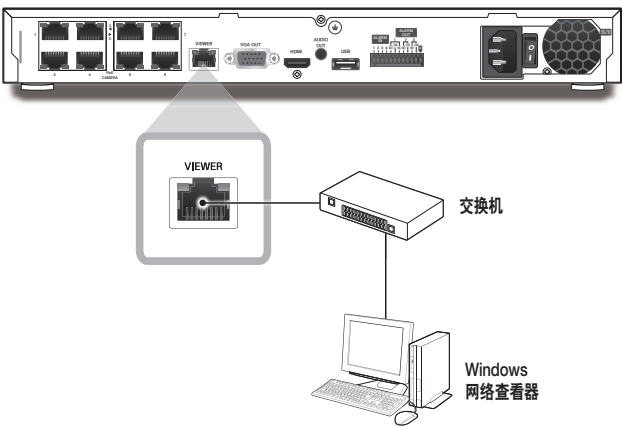
- ALARM IN 1 ~ 4 : 警报输入端口
- ALARM OUT 1 ~ 3 : 警报输出端口



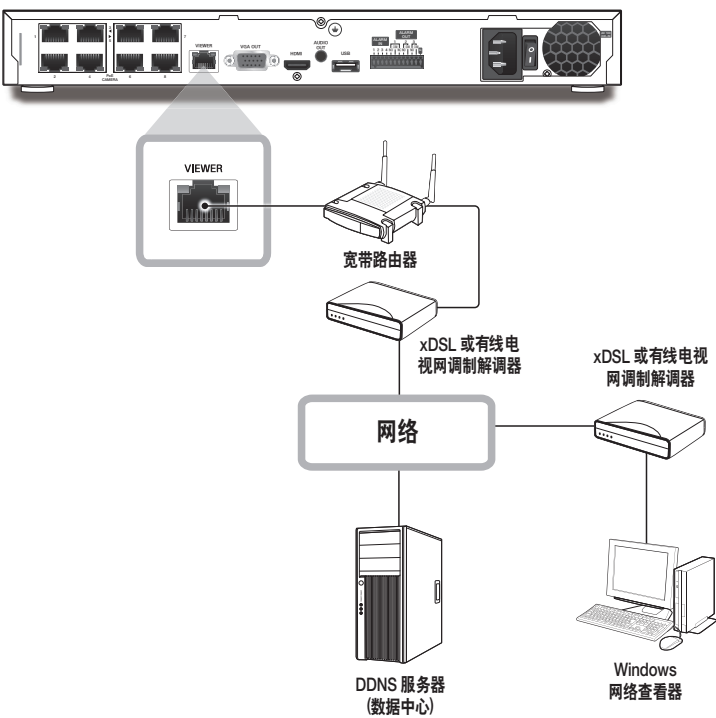
连接网络

- 关于网络连接的详细说明，请参考Wisenet NVR说明书中的"网络配置"。
- 下面的图片基于型号 XRN-810。

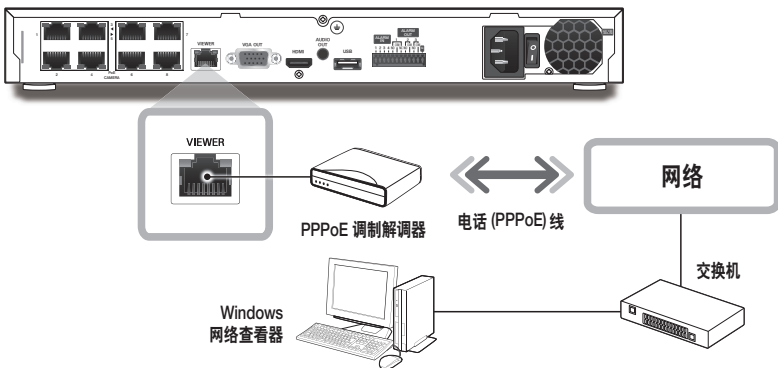
通过以太网进行的网络连接 (10/100/1000BaseT)



通过路由器进行的网络连接

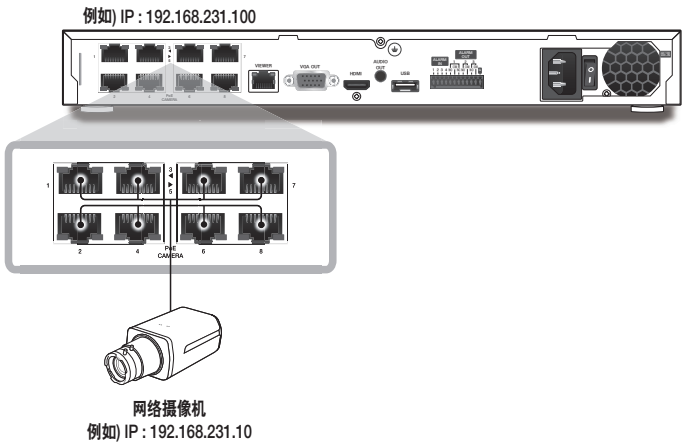


通过 PPPoE 连接至网络

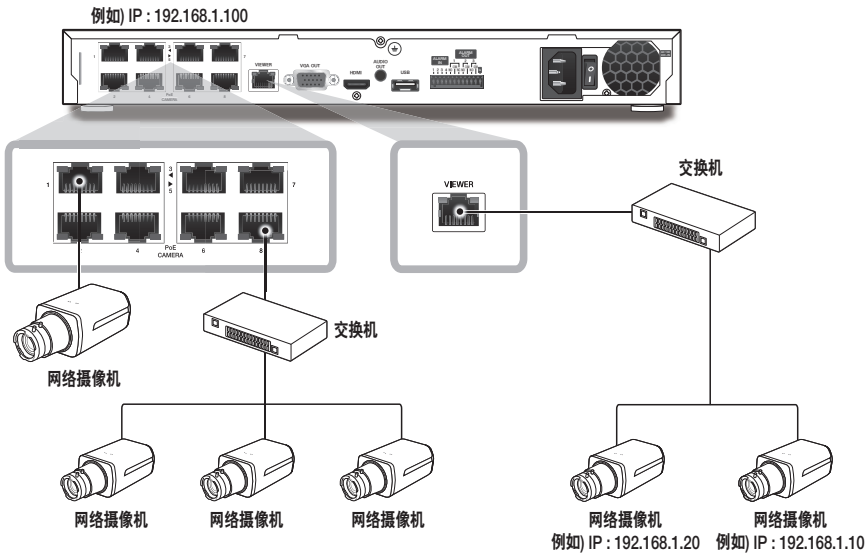


连接网络摄像机

示例 1)



示例 2)



• XRN-410S/XRN-810S

项目		详细信息	
		XRN-410S	XRN-810S
显示			
网络摄像机	输入	最多 4 个频道	最多 8 个频道
	分辨率	CIF ~ 8MP	
	协议	Wisenet, ONVIF	
现场	本地显示	1x HDMI(HDMI 1.4) / 1x VGA	
	性能	[本地显示器] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - 如果设置为 Mjpeg, 最多可允许 2MP	
性能			
操作系统	嵌入式	Linux	
录制	压缩	H.265, H.264, MJPEG (最多可以解码 2M)	
	录制带宽	最大 50Mbps	最大 100Mbps
	分辨率	CIF ~ 8MP	
搜索和播放	播放带宽	32Mbps (4 个频道同时播放)	32Mbps (8 个频道同时播放)
	性能	最多 3 个用户 (本地 1 个、远程 3 个)	
	同时播放	最多 4 个频道 (本地、网络)	最多 8 个频道 (本地、网络)
	分辨率	CIF ~ 8MP	
	播放控制	快/慢 向前/向后、上移一步/下移一步	
存储器	内置	0TB ~ 6TB (dependent on region) - Seagate : ~ 4TB	
	内置硬盘	1 (最多 6TB)	2 (最多12TB)

项目		详细信息	
		XRN-410S	XRN-810S
备份	文件备份	BU/Exe(USB), JPG/AVI(Web, CMS)	
	功能	多通道（最多 4 通道）播放、日期-时间/标题显示	多通道（最多 8 通道）播放、日期-时间/标题显示
传感器	I/O	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
音频	输入	4 个频道（网络）	8 个频道（网络）
	压缩	G.711、G.726、AAC(16/48KHz)	
	音频通信	双路	
网络			
协议		TCP/IP、UDP/IP、RTP (UDP)、RTP (TCP)、RTSP、NTP、HTTP、DHCP (Server、Client)、PPPoE、SMTP、ICMP、IGMP、ARP、DNS、DDNS、uPnP、HTTPS、SNMP、ONVIF (Profile-S)、SUNAPI(Server、Client)	
DDNS		Hanwha Security DDNS	
传输带宽		64Mbps	128Mbps
最多远程用户数		搜索 (3)/现场单播 (10)/多播 (20)	
IP 版本		IPv4/v6	
安全		用户访问日志、IP 过滤、802.1x、加密	
语言		英语、法语、德语、意大利语、西班牙语、俄语、土耳其语、波兰语、荷兰语、瑞典语、捷克语、葡萄牙语、丹麦语、罗马尼亚语、塞尔维亚语、克罗地亚语、匈牙利语、希腊语、挪威语、芬兰语、韩语、中文、日语、泰语	
操作系统		Windows 7、8、10、Mac OS X 10.9、10.10、10.11	
Web 浏览器		无插件网页浏览器 支持的浏览器：Google Chrome 47、MS Edge 20 有插件 web 查看器 支持的浏览器：Supported MS Explore 11、Apple Safari 9 * Mac OS X only	
查看器软件	类型	SSM, Webviewer, SmartViewer, Wisenet Mobile	
	CMS 支持	SDK/CGI (SUNAPI)	

项目		详细信息	
		XRN-410S	XRN-810S
功能			
摄像机控制	PoE	1) 监测 PoE 功耗 2) 每个 PoE 摄像机的开/关控制 3) 每个 PoE 摄像机的远程重置	
简易配置		设置向导（日期/时间、网络、自动摄像机配置） P2P (QR Code)	
冗余	ARB	是	
PTZ	控制	通过 GUI、Webviewer、300 个预设	
智能手机	支持型号	Android、iOS	
	协议支持	RTP、RTSP、HTTP、CGI (SUNAPI)	
智能手机	控制	实时（4 通道）：支持多配置文件 播放（1 通道） 事件推送	实时（8 通道）：支持多配置文件 播放（1 通道） 事件推送
系统控制		鼠标、Web、红外遥控	
指示灯/界面			
前面	指示灯	LED（状态指示器）：3 个 电源状态 LED 1 个 警报状态 LED 1 个 录制状态 LED 1 个	LED（状态指示器）：6 个 电源状态 LED 1 个 硬盘操作 LED 1 个 警报状态 LED 1 个 录制状态 LED 1 个 网络操作 LED 1 个 备份状态 LED 1 个
连接器	VGA	每台 1 个	
	HDMI	每台 1 个 - 最高支持 4K (3840 x 2160)，30Hz	

项目		详细信息	
		XRN-410S	XRN-810S
连接器	音频	输出（每台 1 个，RCA，线性）	
	以太网	■ 每台 4 个 (PoE/PoE+，100Mbps) ■ 每台 1 个 (WAN, 1Gbps) - WAN : Uplink to CMS	■ 每台 8 个 (PoE/PoE+，100Mbps) ■ 每台 1 个 (WAN, 1Gbps) - WAN : Uplink to CMS
	警报器	输入（每台 4 个，接线端子） 输出（每台 2 个，接线端子）	输入（每台 4 个，接线端子） 输出（每台 3 个，接线端子）
	USB	每台 2 个（前面 1，背面 1）	每台 3 个（前面 2，背面 1）
	存储设备	-	
	串行	-	
	重置	开关（1 个）	
	电源线	已包括	
系统			
日志	日志列表	最多 20000 (系统日志, 事件日志每台)	
环境			
工作温度/湿度		+0° C 到 +40° C (+32°F 至 +104°F)	
湿度		20% ~ 85% RH	
电气			
输入电压		54V DC / 1.67A	100 至 240 VAC ±10%
功耗		最多 13W (44BTU, 2TB HDD x 1 个)	最多 19W (64BTU, 2TB HDD x 1 个)
PoE 分配		最多 50W	最多 100W
机械			
颜色/材料		黑色/金属	
尺寸（宽 x 高 x 深）		宽300 x 高47 x 深208.7mm (11.81” X1.85” X8.22”) (1U)	宽370 x 高44 x 深320mm (14.57” X1.73” X12.6”) (1U)
重量		1.694Kg(2T HDD)	3.356kg(2T HDD)

• QRN-410/QRN-810

项目		详细信息	
		QRN-410	QRN-810
显示			
网络摄像机	输入	最多 4 个频道	最多 8 个频道
	分辨率	CIF ~ 8MP	
	协议	Wisenet, ONVIF	
现场	本地显示	1x HDMI(HDMI 1.4) / 1x VGA	
	性能	[本地显示器] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps) - 如果设置为 Mjpeg, 最多可允许 2MP	
性能			
操作系统	嵌入式	Linux	
录制	压缩	H.265, H.264, MJPEG (最多可以解码 2M)	
	录制带宽	最大 50Mbps	最大 100Mbps
	分辨率	CIF ~ 8MP	
搜索和播放	播放带宽	32Mbps (4 个频道同时播放)	32Mbps (8 个频道同时播放)
	性能	最多 3 个用户 (本地 1 个、远程 3 个)	
	同时播放	最多 4 个频道 (本地、网络)	最多 8 个频道 (本地、网络)
	分辨率	CIF ~ 8MP	
	播放控制	快/慢 向前/向后、上移一步/下移一步	
存储器	内置	0TB ~ 6TB (dependent on region) - Seagate : ~ 4TB	
	内置硬盘	1 (最多 6TB)	

项目		详细信息	
		QRN-410	QRN-810
备份	文件备份	BU/Exe(USB), JPG/AVI(Web, CMS)	
	功能	多通道（最多 4 通道）播放、日期-时间/标题显示	多通道（最多 8 通道）播放、日期-时间/标题显示
传感器	I/O	4/2 (NO 1EA, NO/NC 1EA)	4/3 (NO 2EA, NO/NC 1EA)
音频	输入	4 个频道（网络）	8 个频道（网络）
	压缩	G.711、G.726、AAC(16/48KHz)	
	音频通信	双路	
网络			
协议		TCP/IP、UDP/IP、RTP (UDP)、RTP (TCP)、RTSP、NTP、HTTP、DHCP (Server、Client)、PPPoE、SMTP、ICMP、IGMP、ARP、DNS、DDNS、uPnP、HTTPS、SNMP、ONVIF (Profile-S)、SUNAPI(Server、Client)	
DDNS		Hanwha Security DDNS	
传输带宽		64Mbps	128Mbps
最多远程用户数		搜索 (3)/现场单播 (10)/多播 (20)	
IP 版本		IPv4/v6	
安全		用户访问日志、IP 过滤、802.1x、加密	
语言		英语、法语、德语、意大利语、西班牙语、俄语、土耳其语、波兰语、荷兰语、瑞典语、捷克语、葡萄牙语、丹麦语、罗马尼亚语、塞尔维亚语、克罗地亚语、匈牙利语、希腊语、挪威语、芬兰语、韩语、中文、日语、泰语	
操作系统		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11	
Web 浏览器		无插件网页浏览器 支持的浏览器：Google Chrome 47、MS Edge 20 有插件 web 查看器 支持的浏览器：Supported MS Explore 11、Apple Safari 9 * Mac OS X only	
查看器软件	类型	SSM, Webviewer, SmartViewer, Wisenet Mobile	
	CMS 支持	SDK/CGI (SUNAPI)	

项目		详细信息	
		QRN-410	QRN-810
功能			
简易配置		设置向导（日期/时间、网络、自动摄像机配置） P2P (QR Code)	
冗余	ARB	是	
PTZ	控制	通过 GUI、Webviewer、300 个预设	
智能手机	支持型号	Android、iOS	
	协议支持	RTP、RTSP、HTTP、CGI (SUNAPI)	
智能手机	控制	实时（4 通道）：支持多配置文件 播放（1 通道） 事件推送	实时（8 通道）：支持多配置文件 播放（1 通道） 事件推送
系统控制		鼠标、Web、红外遥控	
指示灯/界面			
前面	指示灯	电源状态 LED 1EA 警报状态 LED 1EA 录制状态 LED 1EA	
连接器	VGA	每台 1 个	
	HDMI	每台 1 个 - 最高支持 4K (3840 x 2160), 30Hz	
连接器	音频	输出（每台 1 个，RCA，线性）	
	以太网	每台 1 个 (WAN, 1Gbps) - WAN : Uplink to CMS	
	报警器	输入（每台 4 个，接线端子） 输出（每台 2 个，接线端子）	输入（每台 4 个，接线端子） 输出（每台 3 个，接线端子）
	USB	前面 每台 1 个 (USB2.0), 背面 1(USB3.0)	
	存储设备	-	
	串行	-	
	重置	开关（1 个）	
	电源线	已包括	

项目		详细信息	
		QRN-410	QRN-810
系统			
日志	日志列表	最多 20000 (系统日志, 事件日志每台)	
环境			
工作温度/湿度		+0° C 到 +40° C (+32°F 至 +104°F)	
湿度		20% ~ 85% RH	
电气			
输入电压		12V/4A	
功耗		最多 9W(31BTU, 2TB HDD x 1个)	
机械			
颜色/材料		黑色/金属	
尺寸 (宽 x 高 x 深)		宽300 x 高47 x 深208.7mm (11.81” X1.85” X8.22”) (1U)	
重量		1.655Kg (2T HDD)	

• QRN-410S/QRN-810S/QRN-1610S

项目		详细信息		
		QRN-410S	QRN-810S	QRN-1610S
显示				
网络摄像机	输入	最多 4 个频道	最多 8 个频道	最多 16 个频道
	分辨率	CIF ~ 8MP		
	协议	Wisenet, ONVIF, RTSP		
现场	本地显示	1x HDMI		1x HDMI / 1x VGA
	性能	[本地显示器] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(120fps), 720p(120fps), D1(120fps)	[本地显示器] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps)	[本地显示器] 8MP(60fps) 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(480fps), D1(480fps)
性能				
操作系统	嵌入式	Linux		
录制	压缩	H.265, H.264, MJPEG		
	录制带宽	最大 40Mbps	最大 80Mbps	最大 128Mbps
	分辨率	CIF ~ 8MP		
搜索和播放	播放带宽	32Mbps（4 个频道同时播放）	32Mbps（8 个频道同时播放）	
	性能	最多 3 个用户（本地 1 个、远程 3 个）		
	同时播放	最多 4 个频道（本地、网络）	最多 8 个频道（本地、网络）	最多 8 个频道（本地），最多 16 个频道（网络）
	分辨率	CIF ~ 8MP		
	播放控制	快/慢 向前/向后、上移一步/下移一步		
存储器	内置	-		
	内置硬盘	1 (最多 6TB)		2 (最多12TB)

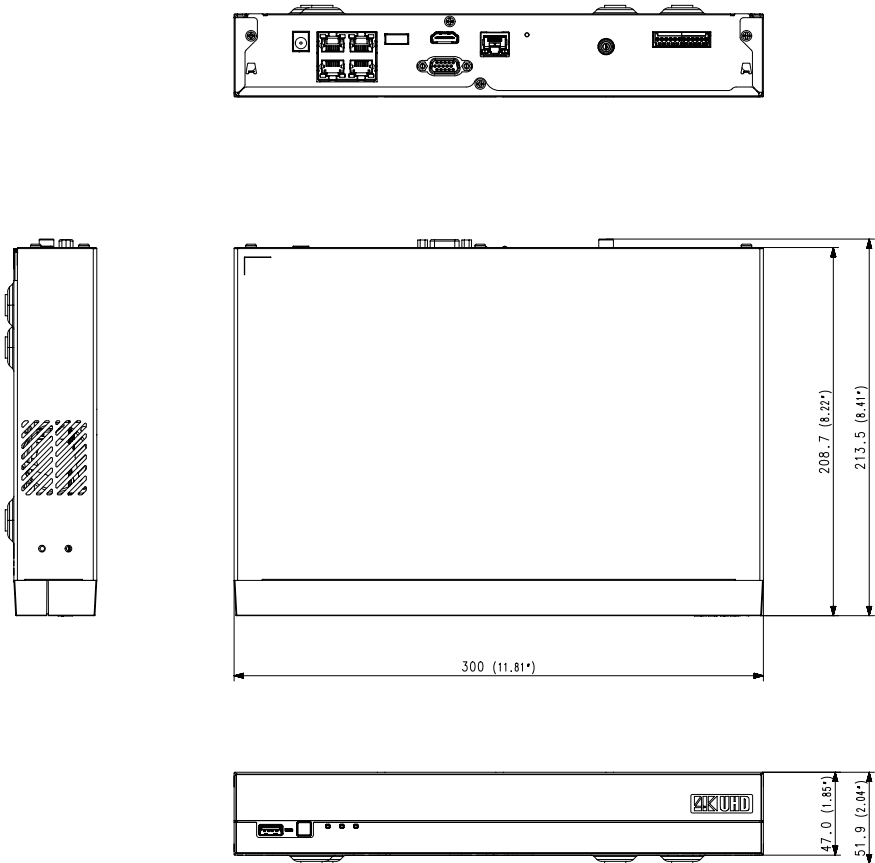
项目		详细信息		
		QRN-410S	QRN-810S	QRN-1610S
备份	文件备份	BU/Exe(USB), JPG/AVI(Web, CMS)		
	功能	多通道（最多 4 通道）播放、日期-时间/标题显示	多通道（最多 8 通道）播放、日期-时间/标题显示	
传感器	I/O	N/A		4/2 (NO 1EA, NO/NC 1EA)
音频	输入	4 个频道（网络）	8 个频道（网络）	16 个频道（网络）
	压缩	G.711、G.726、AAC(16/48KHz)		
	音频通信	双路		
网络				
协议		TCP/IP、UDP/IP、RTP (UDP)、RTP (TCP)、RTSP、NTP、HTTP、DHCP (Server、Client)、PPPoE、SMTP、ICMP、IGMP、ARP、DNS、DDNS、uPnP、HTTPS、SNMP、ONVIF (Profile-S)、SUNAPI(Server、Client)		
DDNS		Hanwha Security DDNS		
传输带宽		50Mbps	80Mbps	128Mbps
最多远程用户数		搜索 (3)/现场单播 (10)/多播 (20)		
IP 版本		IPv4/v6		
安全		用户访问日志、IP 过滤、802.1x、加密		
操作系统		Windows 7、8、10、Mac OS X 10.9、10.10、10.11		
Web 浏览器		无插件网页浏览器 支持的浏览器：Google Chrome 47、MS Edge 20 有插件 web 查看器 支持的浏览器：Supported MS Explore 11、Apple Safari 9 * Mac OS X only		
查看器软件	类型	SSM, Webviewer, SmartViewer, Wisenet Mobile		
	CMS 支持	SDK/CGI (SUNAPI)		
功能				
摄像机控制	PoE	1) 监测 PoE 功耗 2) 每个 PoE 摄像机的开/关控制 3) 每个 PoE 摄像机的远程重置		

项目		详细信息		
		QRN-410S	QRN-810S	QRN-1610S
简易配置		设置向导（日期/时间、网络、自动摄像机配置） P2P (QR Code)		
ARB		是		
PTZ	控制	通过 GUI、Webviewer、300 个预设		
智能手机	支持型号	Android、iOS		
	协议支持	RTP、RTSP、HTTP、CGI (SUNAPI)		
	控制	实时（4 通道）： 支持多配置文件 播放（1 通道） 事件推送	实时（8 通道）： 支持多配置文件 播放（1 通道） 事件推送	实时（16 通道）： 支持多配置文件 播放（1 通道） 事件推送
系统控制		鼠标、Web	鼠标、Web、红外遥控	
指示灯/界面				
前面	指示灯	LED（状态指示器）：3 个 电源状态 LED 1 个 警报状态 LED 1 个 录制状态 LED 1 个	LED（状态指示器）：6 个 电源状态 LED 1 个 硬盘操作 LED 1 个 警报状态 LED 1 个 录制状态 LED 1 个 网络操作 LED 1 个 备份状态 LED 1 个	
连接器	VGA	-	每台 1 个 (1920x1080, 1280x1024, 1280x720, 1024x768)	
	HDMI	每台 1 个 (3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720, 1024x768)		
	音频	-	输出（每台 1 个，RCA）	
	以太网	■ 每台 4 个 (PoE, 100Mbps) ■ 每台 1 个 (WAN, 100Mbps) - WAN : Uplink to CMS	■ 每台 8 个 (PoE, 100Mbps) ■ 每台 1 个 (WAN, 1Gbps) - WAN : Uplink to CMS	■ 每台 16 个 (PoE, 100Mbps) ■ 每台 1 个 (WAN, 1Gbps) - WAN : Uplink to CMS

项目		详细信息		
		QRN-410S	QRN-810S	QRN-1610S
连接器	警报器	-	输入（每台 4 个， 接线端子） 输出（每台 2 个， 接线端子）	
	USB	前面每台 1 个(USB2.0), 背面每台 1 个 (USB3.0)		前面每台 2 个 (USB2.0), 背面每台 2 个 (USB3.0)
	重置	开关（1 个）		
	电源线	已包括		
系统				
日志	日志列表	最多 20000 (系统日志, 事件日志每台)		
环境				
工作温度/湿度		+0° C 到 +40° C (+32°F 至 +104°F)		
湿度		20% ~ 85% RH		
电气				
输入电压		54V DC / 1.20A	54V DC / 1.67A	100 至 240 VAC
功耗		最多 47W(1HDD, PoE on) 最多 7.4W(1HDD, PoE off)	最多 76.2W(1HDD, PoE on) 最多 8.1W(1HDD, PoE off)	最多 158.2W(2HDDs, PoE on) 最多 34.6W(2HDDs, PoE off)
PoE 分配		最多 30W	最多 50W	最多 130W
机械				
颜色/材料		黑色/金属		
尺寸（宽 x 高 x 深）		宽300 x 高47.1 x 深208.4mm (11.81” X1.85” X8.20”)(1U)		宽370.0 x 高44.0 x 深320 mm(1U)
重量		0.99Kg	1.01Kg	2.79Kg

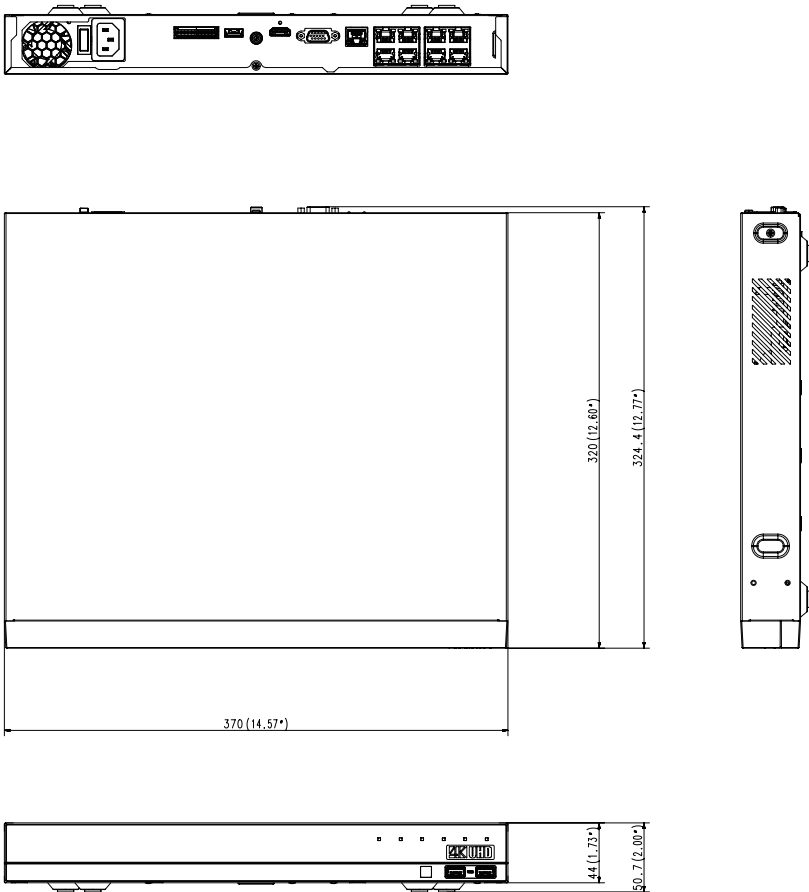
• XRN-410S

单位：毫米(英寸)



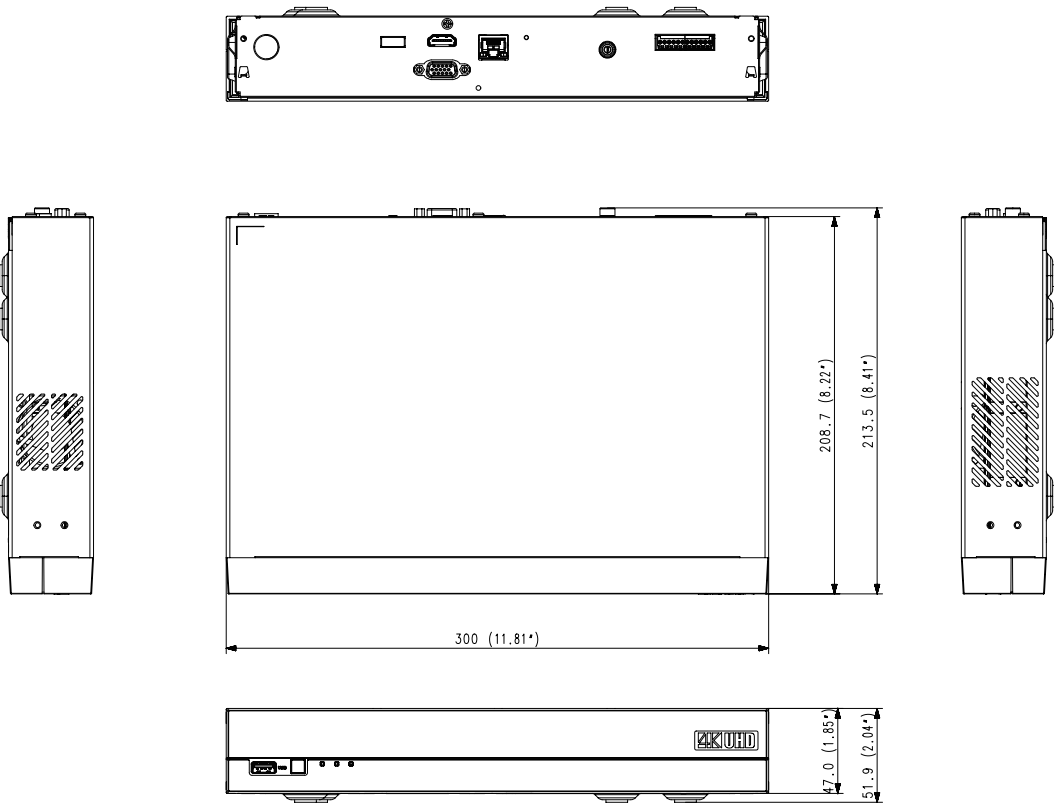
• XRN-810S

单位：毫米(英寸)



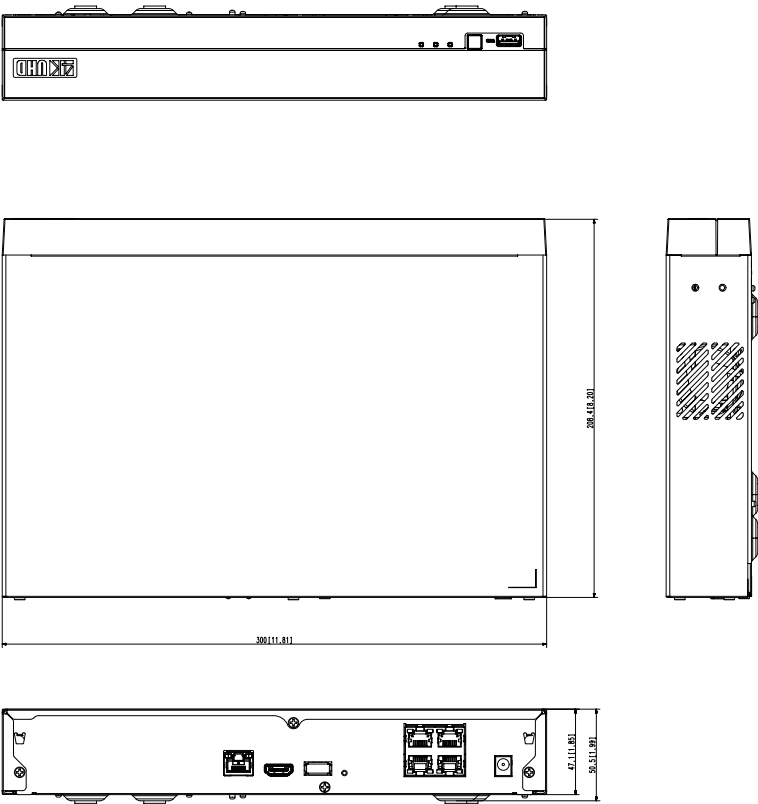
• QRN-410/QRN-810

单位：毫米(英寸)



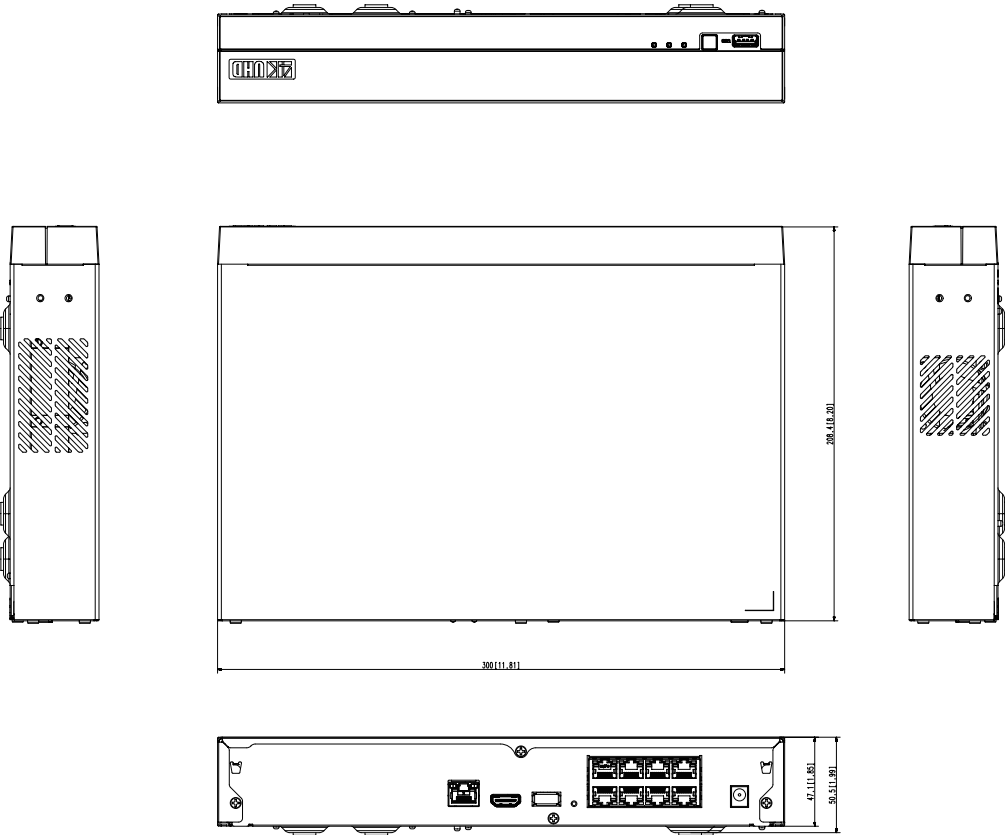
• QRN-410S

单位：毫米(英寸)



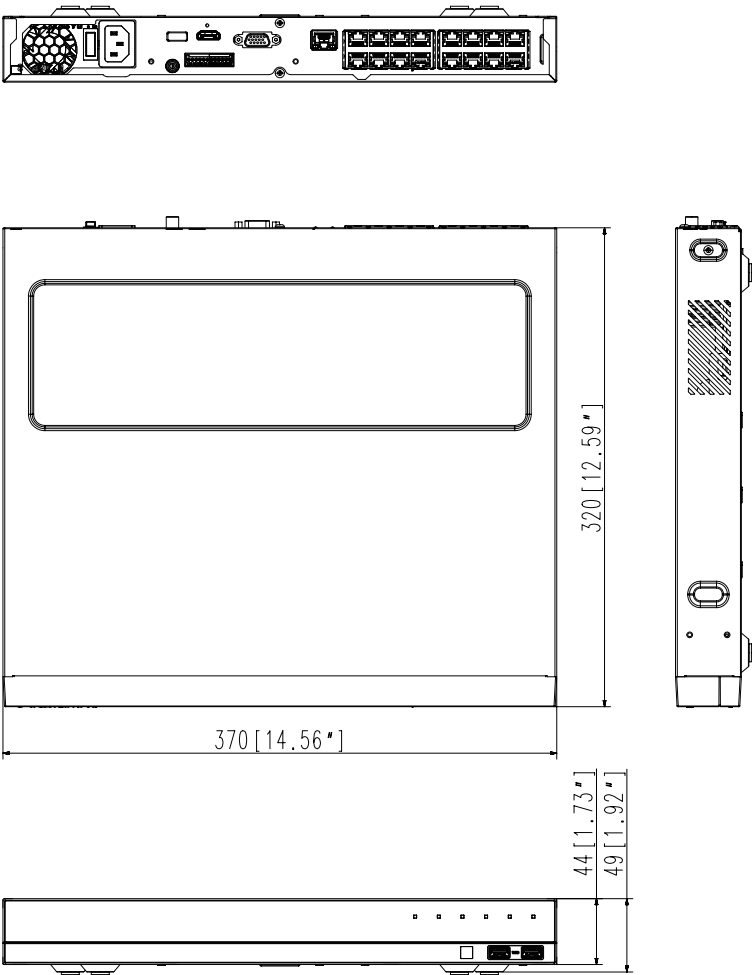
• QRN-810S

单位：毫米(英寸)



• QRN-1610S

单位：毫米(英寸)



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- **LGPL Software:** avahi-0.6.32, ffmpeg-2.4.3, glib-2.46.2, libdaemon-0.14, libnl-3.2.25, libusb-0.1.12, libusb-0.1.5, qrencode-3.4.4, wvdial-1.61, wstreams-4.6.1, Live555, qtopia4.7.2
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Version 2, June 1991

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Version 1.1

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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- [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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- [7]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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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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