

WISeNet

网络视频录像机

产品配置说明书

PRN-4011



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。
 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。

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：
- Hanwha Techwin 保留对本手册的版权。
 - 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。)
- !

- 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。

图形符号的使用

设备上标注的图形符号，无论标准要求与否，须符合 IEC 60417 或 ISO 3864-2 或 ISO 7000 要求，如适用。
无适用符号的情况下，制造商可以设计特定的图形符号。

设备上标注的符号应在用户手册中加以解释说明。

符号	公开发行	描述
	IEC60417, No.5032	交流电

支持功能别NVR产品

功能	产品目录
风扇	PRN-4011
RAID	PRN-4011
iSCSI	PRN-4011
摇杆	PRN-4011
扩展显示器	PRN-4011
双重电源	PRN-4011
障碍措施	PRN-4011

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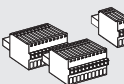
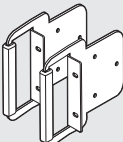
15	产品视图
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特性

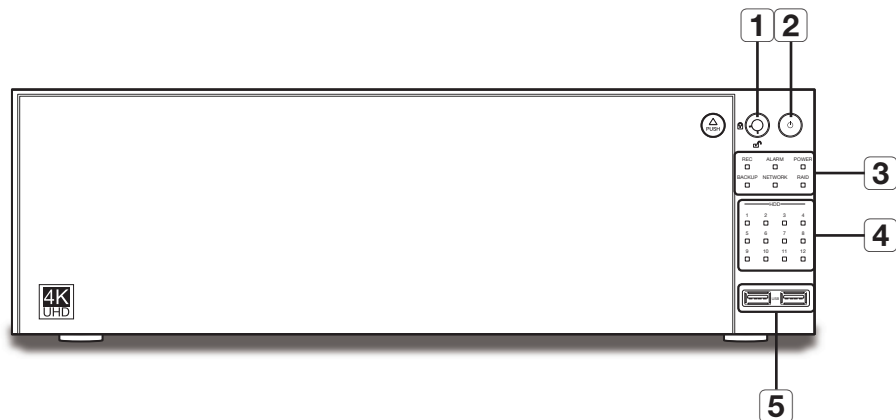
- 本产品会将来自网络摄像机的视频和音频录制到硬盘、并允许从硬盘进行播放。它还提供远程监视环境、可使用远程计算机通过网络远程监视视频和音频。
- 用户友好界面
 - 支持各种 4K 摄像机分辨率 (3840X2160, 4096X2160, 4000X3000)
 - 使用 HDMI 输出 4K 高清晰度图像
 - 64 分屏解码
 - 支持双监视器输出（扩展、复制）
 - 支持多密码
 - 录制和播放视频
 - 录制和播放音频
 - 支持 ONVIF Profile S 标准和 RTP / RTSP 协议
 - 通过 HDD SMART 显示硬盘操作状态
 - 启用硬盘覆盖
 - 使用 USB 2.0 协议和外接硬盘备份
 - 同时播放 16 个频道
 - 多种搜索模式(时间、事件、智能、文本、备份、ARB)
 - 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）
 - 支持远程查看器多配置文件
 - 支持 ARB
 - 支持失效转移
 - 用于设置各通道存储时间段的功能

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。

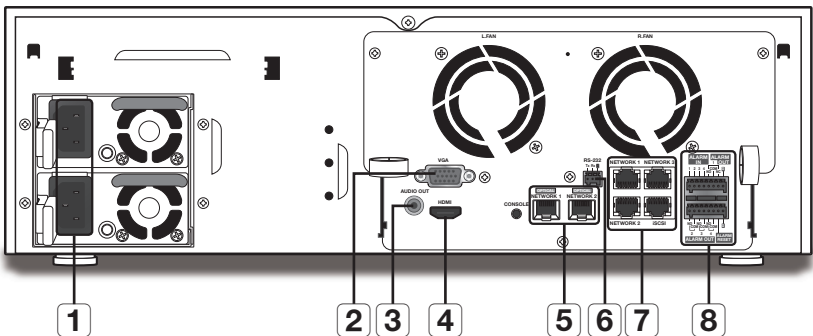
		
NVR	鼠标	电源线
		
简介	接线端子	机架安装
		
机架安装螺钉	HDD 固定螺栓	硬盘门锁密钥

部件名称与功能(前面)



部件名称		功能
1	硬盘门锁密钥	这是一种用于限制接触硬盘的锁定装置。 请使用您在购买本产品时为您提供的产品密钥。
2	电源	用于打开/关闭。
3	LED 指示灯	REC : 当正在进行录制时亮起。
		ALARM : 发生事件时亮起。
		POWER : 显示电源打开/关闭状态。
		BACKUP : 当正在进行备份时显示。
		NETWORK : 显示网络连接和数据传输状态。
4	HDD	RAID : 显示当前 RAID 操作。
		显示正常访问硬盘。 正在访问硬盘时、LED 会亮起。
5	USB	连接 USB 设备。

部件名称与功能(背面)



部件名称		功能
1		电源线连接到的端子。 - 使用双重电源时，即使只连接一个电源也能正常工作。但为了实现可靠性，建议您使用两个独立电源。 - 如在移动期间出现问题，SMPS 蜂鸣器将发出声音。（按下绿色圆钮即可关闭蜂鸣器） - 即使未连接电源，可用的绿色 SMPS 按钮 LED 指示灯和 SMPS 风扇仍可工作。
2	VGA	VGA 视频信号输出端口。
3	AUDIO OUT	音频信号输出端口(RCA 插孔)。
4	HDMI	HDMI 连接器端口。
5	OPTICAL NETWORK 1/2	光纤通讯 I/F 端口。
6	RS-232C	串行通信电缆终端。
7	NETWORK 1	摄像机连接端口；从摄像机接收视频。
	NETWORK 2	摄像机连接端口；从摄像机接收视频。
	NETWORK 3	用于将视频发送到 Web Viewer 的端口。
	iSCSI	用于连接到外部 iSCSI 的端口。
8	ALARM	- ALARM IN : 警报输入端口。(1~4 CH) - ALARM RESET : 警报重置端口 - ALARM OUT : 警报输出端口。(1~4 CH)

 [CONSOLE] 设计为仅用于维修服务。

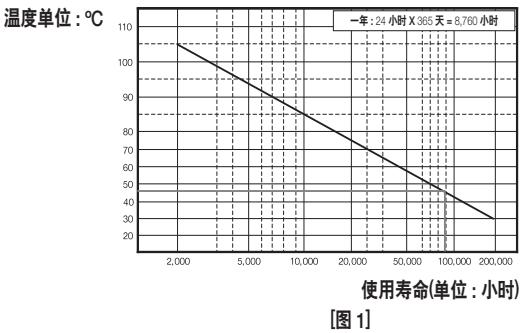
在使用产品之前、请了解下列事项。

- 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

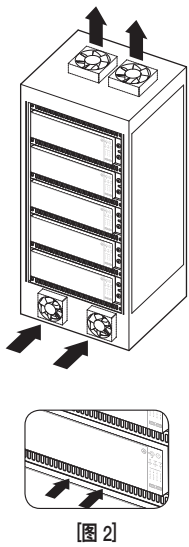
本产品是顶尖的安防设备、配有高容量硬盘和其他重要的电路板。

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。

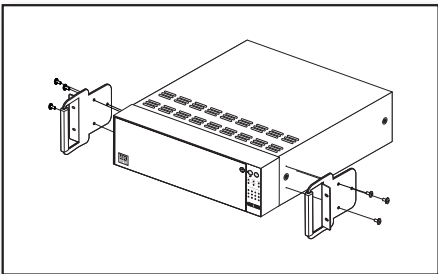
1. 请确保机架内部不是密封的。
2. 请确保空气可以通过进风口和出风口循环。
3. 如果象图 2 所示那样层叠安装产品或其他支架安装式设备、请确保留出通风的空间或安装通风口。
4. 为了形成空气自然对流、请将进风口放到机架的底部、将出风口放在顶部。
5. 强烈建议在进风口和出风口处安装风扇马达、加强空气循环。(请在进风口处安装滤网、过滤出灰尘或异物。)
6. 请让机架内部和周围区域的温度保持在 0°C 到 40° C (32° F 到 104° F) 之间、如图 1 所示。



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。



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: 最多支持 12 个硬盘
- 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。

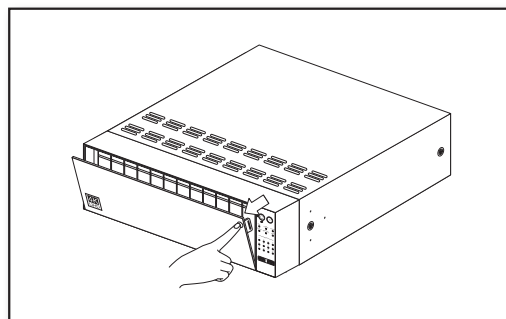
安装硬盘时的注意事项

1. 切勿对硬盘过度用力。
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。
4. 如您想要替换或添加一个 HDD、请先联系您的经销商或我们的客户服务中心。
 - 仅产品管理员可以打开正面的 HDD 盖板。

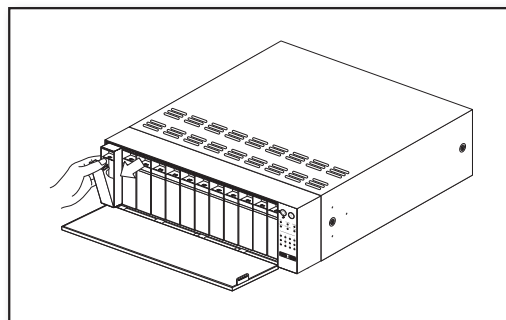
硬盘安装

- !**
- 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“装置确认/样式”。
 - 要替换或另安装一个 HDD，必须联系您的经销商或我们的客户中心。

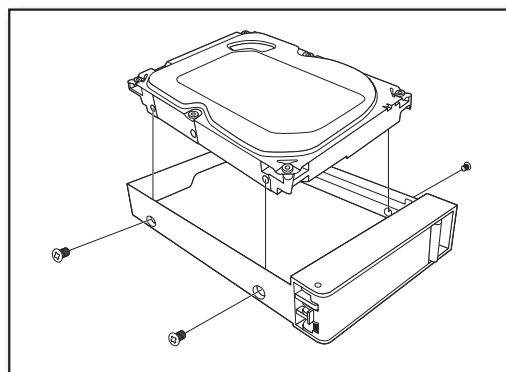
1. 按下前面的 <PUSH> 按钮来打开前盖。



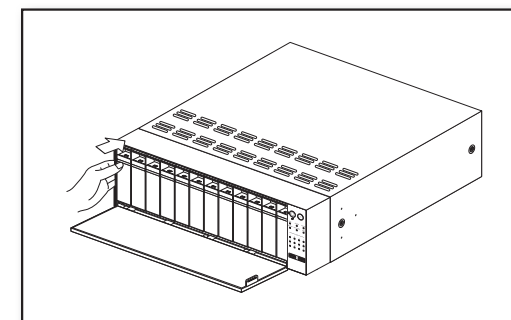
2. 在按下硬盘托架中的蓝色按钮后，用手拉动硬盘托架，将其与主体分离。



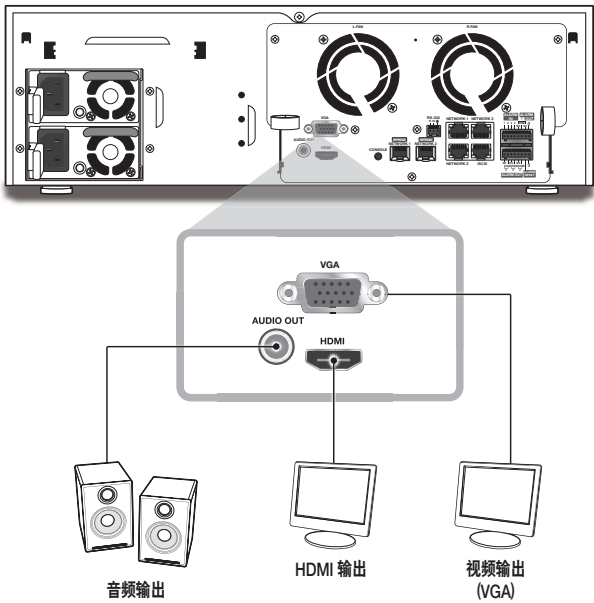
3. 将硬盘装入硬盘托架，使用所提供的螺钉将其固定。



4. 硬盘装入托架后，将其推入主体，然后关上前盖。



连接至外部设备

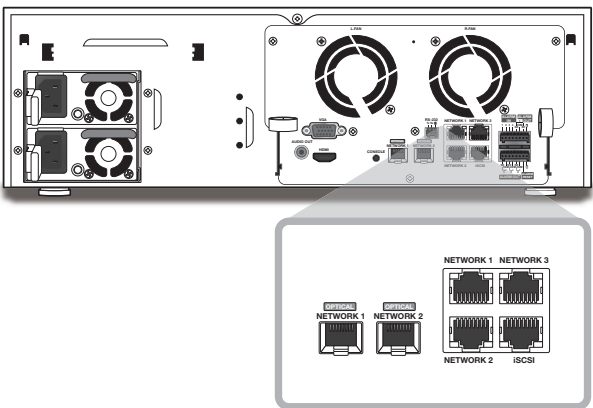


! 非额定或不正确的电源可能会导致损坏系统。在按“电源”按钮之前、请确定您仅使用额定电源。

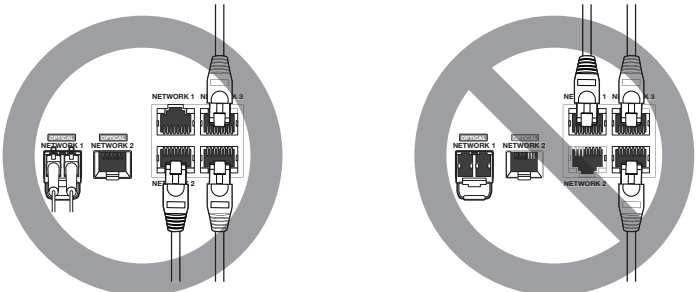
连接光学模块

光学模块的额定功率是 DC 3.3V 0.25A。

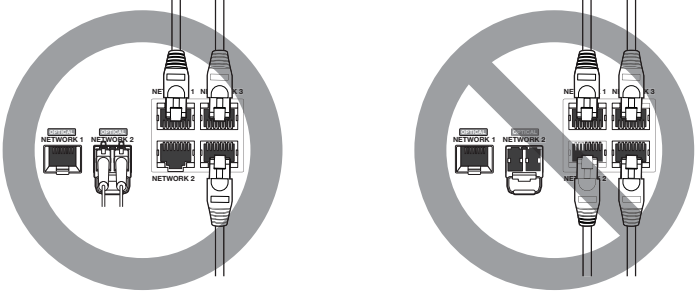
- 安装了光学模块时，UTP 端口的使用将受到限制。
- 仅在需要时安装光学模块。



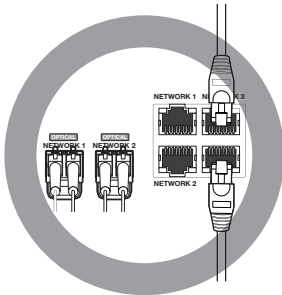
1. [OPTICAL NETWORK1] 是与 [NETWORK1]共享的端口。



2. [OPTICAL NETWORK2] 是与 [NETWORK2]共享的端口。



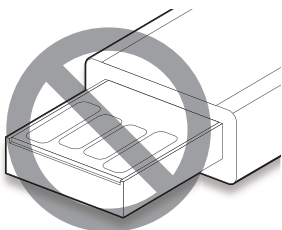
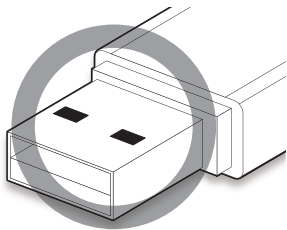
3. [OPTICAL NETWORK1/2] 是与 [NETWORK1/2]共享的端口。



连接 USB

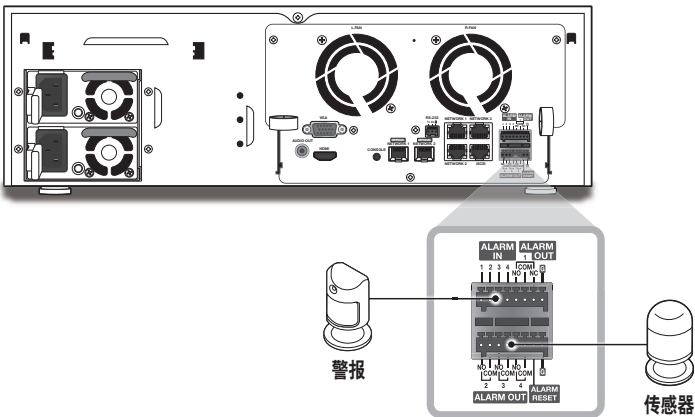
1. 在本产品前面有一个 USB 端口。
2. 您可以将 USB 硬盘、USB 存储器或鼠标连接到 USB 端口上。
3. 如果USB HDD连接到系统，可通过Wisenet NVR说明书中的“菜单 > 设备 > 存储设备”进行识别及设置。
4. 本产品支持热拔插功能、此功能允许当正在使用系统时连接/断开 USB 设备。

- ! 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,导致使用中出现异常。

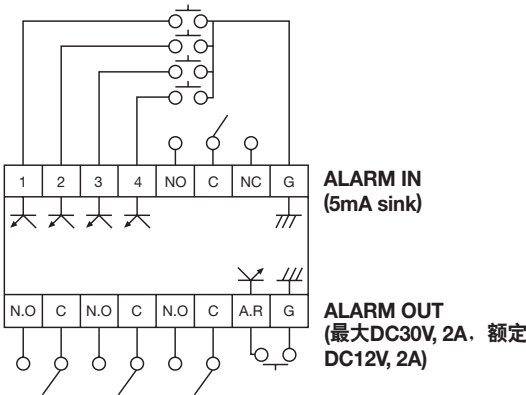


连接警报输入/输出

背面的警报输入/输出端口由下列各项组成。



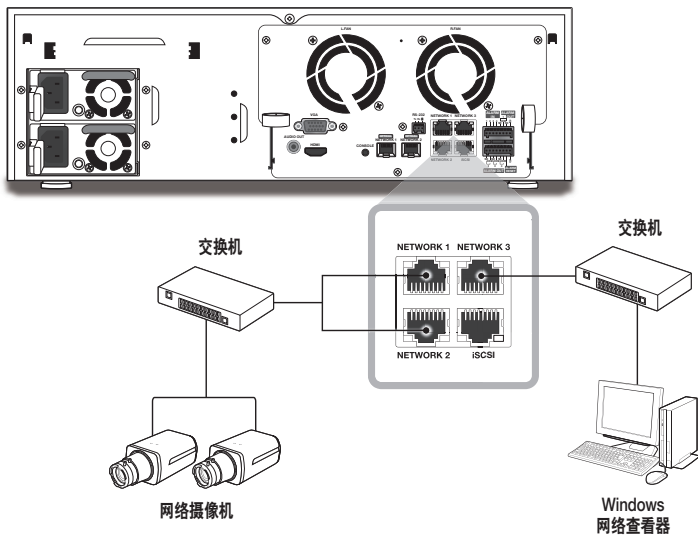
- ALARM IN 1 ~ 4 : 警报输入端口
- ALARM RESET : 接收到警报重置信号时、系统取消当前警报输入并继续感应。
- ALARM OUT 1 ~ 4 : 警报输出端口



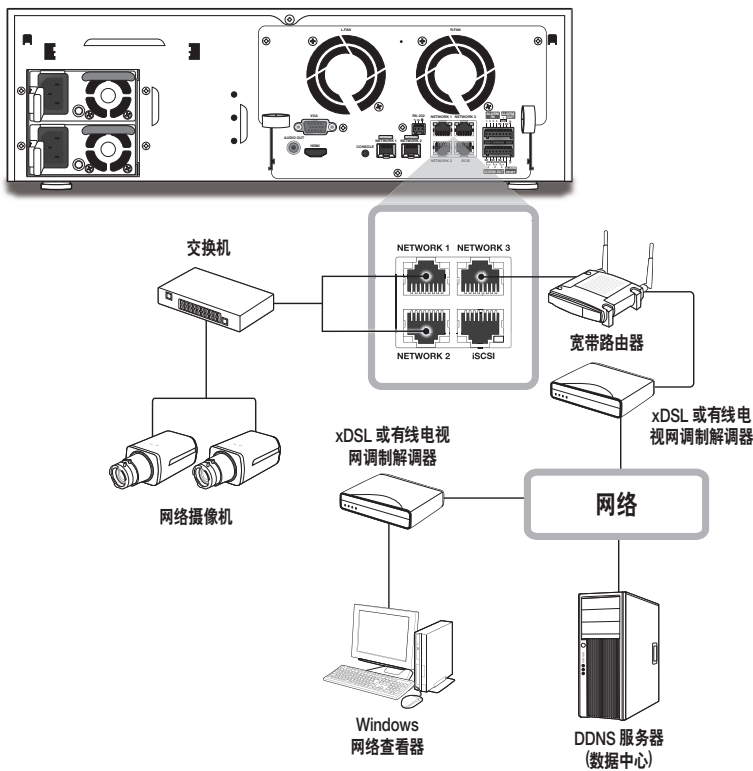
连接网络

关于网络连接的详细说明，请参考Wisenet NVR说明书中的“网络设置”。

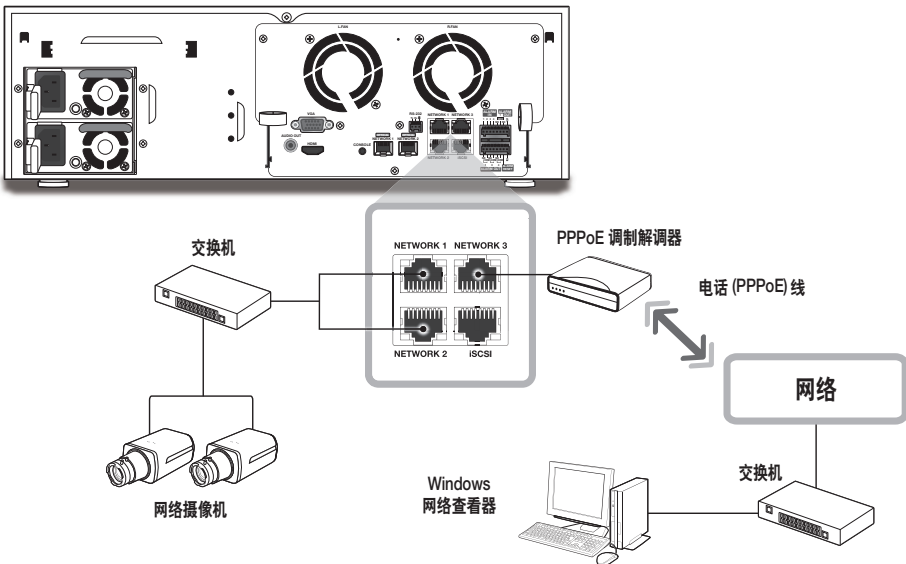
通过以太网进行的网络连接 (10/100/1000BaseT)



通过路由器进行的网络连接

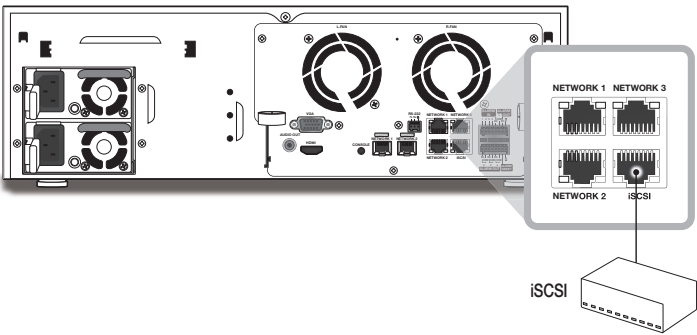


通过 PPPoE 连接至网络

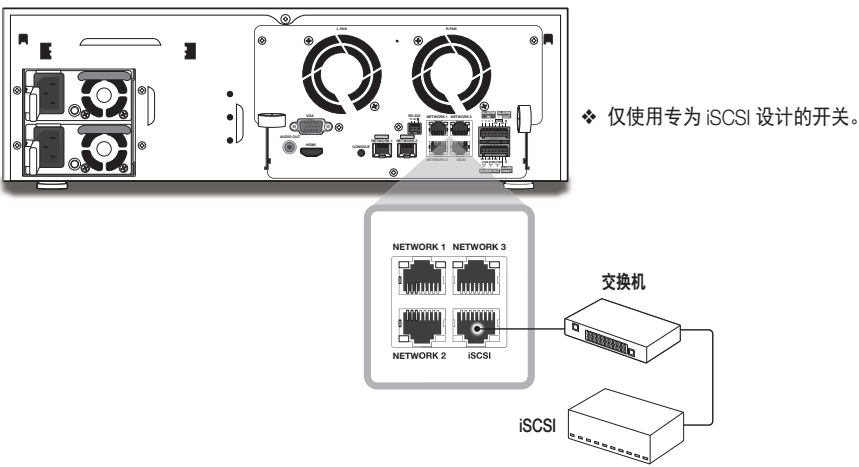


连接 iSCSI

直接连接到 NVR



可以使用交换机来进行连接



项目		详细信息	
显示			
网络摄像机	输入	最多 64 个频道	
	分辨率	CIF ~ 12MP	
	协议	Wisenet, ONVIF	
现场	本地显示	1x HDMI / 1x VGA 双监视器	
	性能	[本地显示器] - 12M (30fps) - 8.3M(120fps) - 1080p(480fps) - 720P(960fps) - D1(1920fps)	
性能			
操作系统	嵌入式	Linux	
录制	压缩	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	录制带宽	最大 250Mbps (Non RAID)	最大 400Mbps (RAID-5/6)
	分辨率	CIF ~ 12MP	
搜索和播放	播放带宽	最多 32Mbps（16 个频道同时播放）	
	用户	最多 4 个用户（本地 1 个，远程 3 个）	
	同时播放	最多 16 个频道（本地监视器、CMS）	
	分辨率	CIF ~ 12MP	
	鱼眼去翘曲	WEB / CMS	
	播放控制	快/慢 向前/向后、上移一步/下移一步	
存储器	内置	0TB ~ 8TB	
	内置硬盘	12 (最大 96TB, 非 RAID 模式)	
	外部	iSCSI 存储（最大 192TB）	
	RAID	RAID-5/6(阵列大小：6-HDD x 2 个阵列)	
备份	文件备份	BU/Exe(GUI)、JPG/AVI（网络）	
	功能	多通道（最多 16 通道）播放、日期-时间/标题显示	

项目		详细信息
传感器	I/O	4/4 (NO/NC 可选)
音频	输入	64 个频道 (网络)
	压缩	G.711、G.726、AAC(16/48KHz)
	音频通信	双路
网络		
接口		RJ-45(千兆位以太网) x4, SFP x2
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 DDNS
传输带宽		最大 400Mbps
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		IP 地址过滤、用户访问日志、802.1x、加密、2 人规则
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、韩国语、中文、日语、泰语
操作系统		Window 7、8、10、Mac OS X(10.8 或更高版本)
Web 浏览器		MS IE、Google Chrome、Mac Safari
查看器软件	类型	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer
	CMS 支持	支持 SDK/CGI(SUNAPI) 集成至第 3 方 VMS
功能		
PTZ	控制	通过 GUI、Webviewer、SPC-2000
	预设	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	现场 (16ch) : 支持多配置文件 播放 (1ch)
	最多远程用户数	搜索 (3)/现场单播 (10)

项目		详细信息
冗余	失效转移	N+1
	ARB	是
系统控制		鼠标、Web、SPC-2000（控制器）
指示灯/界面		
前面	指示灯	LED(状态指示灯) - 硬盘运行 (12), RAID (1), 警报 (1), 电源 (1), 录制 (1), 备份 (1), 网络(1)
连接器	VGA	副监视器：1 个（支持实时屏幕，最大支持 32 分屏模式）
	HDMI	主监视器：1 个（均支持实时/PB/设置） - 最高支持 4K（3840 x 2160，单监视器模式 64 分屏）
	音频	输出（每台 1 个，RCA，线性）
	以太网	RJ-45 每台 4 个，（LAN/WAN, 1Gbps），1000M SFP 2 个
	警报器	1) 输入（每台 4 个，接线端子） 2) 警报重置（每台 1 个） 3) 输出 (每台 4 个, 接线端子) - 中继输出1(NO/NC/COM) - 中继输出2~4(NO/COM)
	USB	2 个（前面 2）
连接器	存储设备	iSCSI
	串行	RS-232C
	重置	开关（1 个）
	电源线	每台 2 个 交流插口

项目		详细信息
系统		
日志	日志列表	最多 20,000 (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 to +104°F)
湿度		20% ~ 85% RH
电气		
电源		100 ~ 240 VAC ± 10%; 50/60 Hz, 3~1.5A (双 SMPS)
功耗		最大 250W（853 BTU，配备 12 个 HDD）
机械		
颜色/材料		黑色/金属
尺寸（宽 x 高 x 深）		宽 436.0 x 高 132.0 x 深 450.0mm (17.17" x 5.2" x 17.72") (3U)
重量		约 11Kg (24.3 lb, 不包括 HDD)

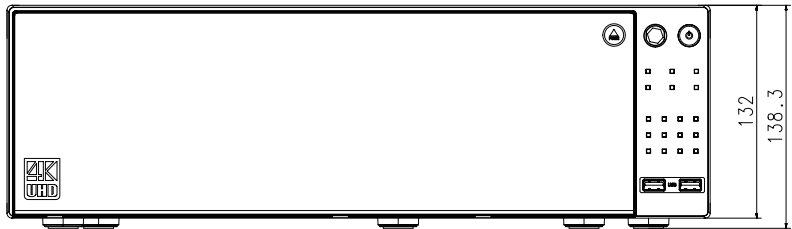
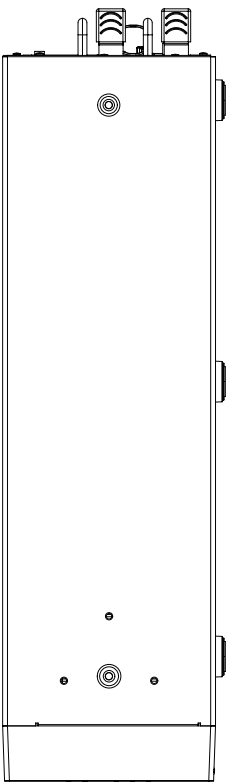
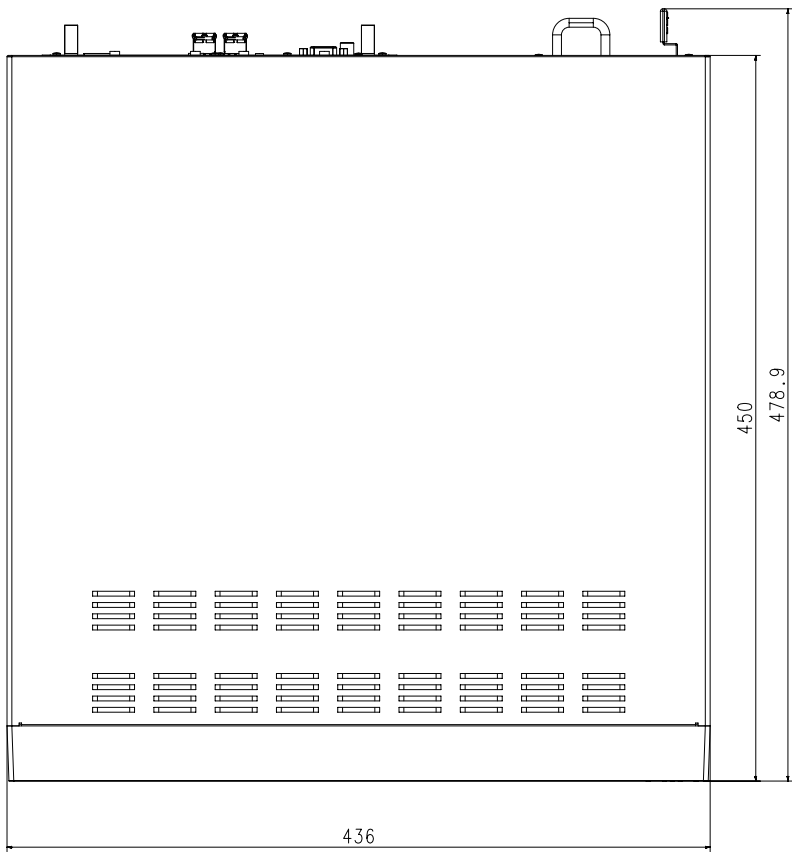
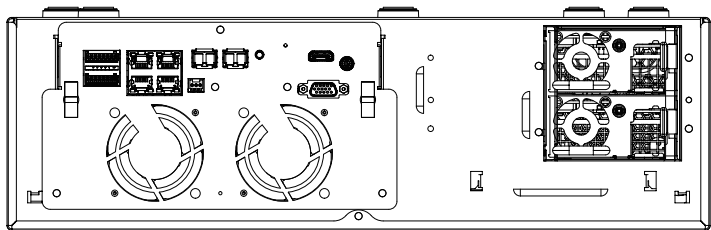
不同硬盘条件的录制性能规格

单位：Mbps

存储方式	Rcv	保存			远程传输	播放
		内部		iSCSI		
		正常	重构			
内部 (RAID5)	400	400	320	300	300	32
内部 (RAID6)	400	400	320	300	300	32
一个 HDD	400	250	-	250	300	32
iSCSI	300	-	-	300	300	32

※ Internet/iSCSI 存储性能基于具体的使用环境。

单位：毫米(英寸)



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- **LGPL Software:** ffmpeg-2.4.3, glibc 2.16, Live555, Qt 4.7.2
- **MPL 1.1:** npapi-sdk
- **BSD 2-Clause License:** FreeBSD
- **BSD 3-Clause License:** miniupnpc-1.5-ppc, net-snmp-5.6.2.1, ppp-2.4.5, jquery.sha256, jsbn, libjpeg-turbo, lighttpd 1.4.35, msinttypes, requires, spherical++, sprintf 0.7, System-Verilog-Packet-Library, Text OpenGL Extension Wrangler Library 1.7.0
- **MIT License:** aptechcmSV2, avropendous, cJSON, cJSON-Dave Gamble, dynatree, javascript-ipv6, jqGrid, jQuery UI, jquery-form, jquery-hashchange, jquery-json, jquery-numeric, jquery-throttle-debounce 1.1, JS-Browser-Driver, moon9, noty, Raphael JavaScript Library, wildflower 1.3.Beta
- **libxml2 License:** libxml2 2.7.7
- **Apache 2.0 License:** RLLib
- **zlib/libpng License:** cximage, HM NIS Edit, Nullsoft Scriptable Install System 2.46, PNG reference library, tinyxml 2.6.2, zlib 1.2.8
- **Boost Software License:** boost 1.57.0
- **Curl License:** curl 7.49.1
- **Microsoft Public License:** Minima, Text Designer Outline Text Library
- **Code Project Open 1.02 License:** CPPSQLite - C++ Wrapper for SQLite, A reusable, high performance, socket server class - Part3
- **JPEG License:** libjpeg-8b
- **RSA MD4 or MD5 Message-Digest Algorithm License:** JavaScript MD5 1.1, sipxtapi
- **PHP License 3.01:** HPHP-2.1.0, PHP 5.6.33
- **OpenSSL Combined License:** openssl 1.0.2n
- **PCRE 5 License:** pcre 8.31
- **NTP License:** ntp 4.2.8p10
- **CodeIgniter License:** CodeIgniter
- **GLUT for Win32 License:** GLUT for Win32
- **ISC License:** dhcp 4.3-2rc2
- **Brian Gladman Alternate License:** AES with the VIA ACE
- **Acknowledgement:** This product includes modified version of ffmpeg, Live555, Qt 4.7.2, and npapi-sdk.

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Version 2, June 1991

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[sheepb.jpg] "Clone me," says Dolly sheepishly

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3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5

4. [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes

5. [6]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option

6. [7]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up rcvbuf and iosignal code into separate modules.

7. [8]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver

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11. [12]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration

12. [13]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

13. [14]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port

14. [15]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port

15. [16]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119

16. [17]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

17. [18]Mike Iglesias <iglesias@uci.edu> DEC Alpha port

18. [19]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port

19. [20]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul

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22. [24]Frank Kardel [25]<Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup

23. [26]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HP/UX modifications

24. [27]Dave Katz <dkatz@cisco.com> RS/6000 AIX port

25. [28]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

26. [29]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

27. [30]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

28. [31]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

29. [32]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWW/H, IRIG

30. [33]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port

31. [34]Jeffrey Mogul <mogul@pa.dec.com> ntpttrace utility

32. [35]Tom Moore <tmoore@fivel.daytonoh.ncr.com> i386 svr4 port

33. [36]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

34. [37]Derek Mulcahy <derek@toybox.demon.co.uk> and [38]Damon Hart-Davis <d@hd.org> ACRON MSF clock driver

35. [39]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

36. [40]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

37. [41]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo

38. [42]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

39. [43]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

40. [44]Ray Schnitzler <schnitz@unipress.com> Unixware1 port

41. [45]Michael Shields <shields@tembel.org> USNO clock driver

42. [46]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

43. [47]Harlan Stenn <harlan@pfcs.com> GNU automake/ autoconfigure makeover, various other bits (see the ChangeLog)

44. [48]Kenneth Stone <ken@sdd.hp.com> HP-UX port

45. [49]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

46. [50]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

47. [51]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

48. [52]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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40. mailto:dirce@zk3.dec.com

41. mailto:wsanchez@apple.com

42. mailto:mrapple@quack.kfu.com

43. mailto:jack@innovativeinternet.com

44. mailto:schnitz@unipress.com

45. mailto:shields@tembel.org

46. mailto:pebbles.jpl.nasa.gov

47. mailto:harlan@pfcs.com

48. mailto:ken@sdd.hp.com

49. mailto:ajit@ee.udel.edu

50. mailto:tsuruoka@nc.fukuoka-u.ac.jp

51. mailto:vixie@vix.com

52. mailto:Ulrich.Windl@rz.uni-regensburg.de

53. file://localhost/backroom/ntp-stable/html/index.htm

54. mailto:mills@udel.edu

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