

网络摄像机

用户手册

PNM-9030V



网络摄像机 用户手册

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商标

本文件中的每个商标均经过注册。本产品的名称以及本手册中提到的其他商标均为各自公司的注册商标。

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❖ 设计和规格可能会随时更改，恕不提前通知。

❖ 初始管理员ID为“admin”，而密码则应在首次登录时设置。

请每三个月更改一次密码，以妥善保护个人信息并防止信息泄露造成的损害。

请注意，由于没有妥善管理密码而造成安全或其他方面的问题，由用户自行承担。

重要的安全说明

1. 请阅读这些说明。
2. 请您妥善保存这些说明。
3. 请您遵守所有的操作说明。
4. 请您注意所有的警告说明。
5. 请您不要在水源附近运行本机器。
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. 请您不要堵塞通风口, 在装入机器时, 请您注意制造商的说明。
8. 请您不要将此机器放置在热源附近, 如散热器, 炉子或其它发热设备。
9. 请您绝对不要移去双线插头或有接地插头的安全装置, 双线插头有两个不同宽度的插塞接点, 接地插头有两个插塞接点和第三个接地接点。较宽的插塞接点或附加的接地接点是用来确保您的安全的, 如果随同供货的插头规格不适合您的插座, 请您委托电工更换适当的插座。
10. 请您正确铺设电源线, 使其不会被踩踏和尖角损坏。请您尤其注意插头处, 加长电缆和电线延伸到机器处必须具备充分的保护。
11. 请您使用制造商推荐的附加设备或配件。
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. 请您委托具备资格的售后服务人员进行保养工作。出现以下情况时, 有必要进行保养, 例如当机器被损坏时(如电线或插头损坏), 有物体或液体进入到机器内部时机器受到雨淋或潮湿后, 机器运行不正常或摔落在地上时。
15. 本产品需由标有“Class 2”或“LPS”、合格的电源部件进行供电, 且各产品的额定值是 12 Vdc、1.57 A 或 PoE、0.5 A。
16. 如安装产品时用力过大, 摄像机可能损坏并出现故障。
如使用不符合规定的工具强行安装产品, 产品可能损坏。
17. 请勿将产品安装在存在或可能生成化学物质或油雾的地方。大豆油等食用油可能导致产品损坏或变形, 因此请勿将产品安装在厨房或厨房柜台附近。
这可能导致产品损坏。
18. 安装产品时, 请注意不要使产品表面接触到化学物质。
某些化学溶剂, 如清洁剂或粘合剂可能导致产品表面严重受损。
19. 如未按照建议方法安装/组装产品, 产品功能/性能可能受到影响。
安装产品时请参阅用户手册中的“安装与连接”部分。
20. 在水下安装或使用本产品可能导致产品严重损坏。



21. 拍摄对象距离之外有可能发生图像失真。
22. 1~5ch在多频道连接的情况下, 它可以比基于15 fps的设置fps下降1~2 fps。
23. 编码时可能会导致±1fps的实时fps波动。

警告

为防止火灾或电击等引起的破坏, 不要把产品暴露于水中或潮湿处。请勿穿过设备上的通风栅格或其他开口插入任何金属物体。

请勿将设备放置于滴水或溅水的地方, 且勿将装有水的物体(如花瓶)放在设备上面。

为了避免造成人身伤害, 必须按照安装说明牢固地把本设备固定在墙壁/天花板上。

注意

	注意 不要擅自拆装机器, 避免电击	
注意: 为避免触电危险, 不得取下机器后盖。 机器内部没有用户可修理的部件。 修理工作只允许由具备资格的人员进行		

图形符号说明



等边三角形内带箭头的闪电符号用于警告用户: 产品机壳内存在“危险电压”, 其电压量足以对人员构成电击危险。



等边三角形内的感叹号用于警告用户: 产品附带的文字中包含重要的操作和维护(维修)说明。

概述

CLASS I 构造

具有 CLASS I 构造的设备应连接到具有保护接地连接的电源插座。

电池

电池（安装的电池组或电池）不得暴露在过多的热量下（如阳光、火焰或类似物体）。

断开设备

如果设备出现故障，请拔下其电源插头。并请致电当地的维修人员。

当在美国以外使用时,可以利用所用的 HAR 代码和许可代理机构的接待处。

注意

如更换的电池类型不正确，可能发生爆炸。
按照说明妥当处理废旧电池。

这些维修说明仅供合格的维修人员使用。
为减少电击的危险，除了操作说明中所描述的之外，请勿执行其他任何维修工作，除非您合格这么做。

请将输入电源仅用于一部摄像机，并且不能连接其他设备。

ITE 只能连接到 PoE+ 网络，无需路由到外部工厂。

产品内有害物质信息

部件名称	有毒有害物质元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 Cr (VI)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印制电路板组件	×	○	○	○	○	○
金属部品	×	○	○	○	○	○
电缆	×	○	○	○	○	○
塑料部品	○	○	○	○	○	○

○：部品中有毒有害物质含量在(含量标准)的标准值内。

×：部品中有毒有害物质含量超出(含量标准)的标准值。

本表格表明机器内部含有有害物质,数据是根据部件类型,由部件制作商提供并在Hanwha Vision内部验证后做成的。
某些部品包含的有害物质,按照现在的技术基准不能替代,Hanwha Vision一直在为改善此项而努力。

请仔细阅读以下建议的安全预防措施。

- 请勿将本设备放置于不平的表面上。
- 请勿安装在暴露在直射阳光下、靠近供暖设备或非常寒冷区域的表面上。
- 请勿将本设备放置在传导物体附近。
- 请勿自行维修本设备。
- 请勿将一杯水放在产品上。
- 请勿安装在任何磁源附近。
- 请勿堵塞任何通风口。
- 请勿在产品上放置任何重物。
- 在安装/拆卸摄像机时，请佩戴防护手套。
产品表面温度较高，可能有烫伤的危险。

用户手册是如何使用产品的指导书。

书中所用符号的含义如下。

- 参考：用于提供产品用法的帮助信息
- 注意：如果不遵照说明是否有可能对物品和人员造成任何损害
- ※ 在使用物品之前请阅读本手册以保证安全，并将它保存在安全的地方。

在某些安装环境下，可能会发生无线通信干扰。
如果产品和附近的无线通信设备之间发生电磁干扰，建议增加与无线通信设备的距离或调整通信天线的方向。

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概述

推荐 PC 技术规格

- CPU：Intel(R) Core(TM) i7 3.4 GHz 或更高版本
 - 支持的操作系统：MS Windows、Mac OS X
 - 支持的 web 浏览器：Google Chrome、MS Edge、Mozilla Firefox(Windows 64bit 仅支持)、Apple Safari (仅支持 Mac OS X)
- 通过验证的OS与浏览器的详细版本信息请参考附件。
在浏览器上部分功能的使用有可能受到限制。

建议的 MICRO SD/SDHC/SDXC 存储卡规格

- 建议容量：16GB 至 256GB（MLC 类）
- 建议本摄像机搭配使用以下生产商制造的以下类型的存储卡。
 - 生产商：SanDisk（闪迪）、Transcend（创见）
 - 产品系列：高耐用度

NAS 建议规格

- 建议容量：200GB 或更高
- 同时访问：一套 NAS 可以同时接受最多十六个摄像机访问。
- 对于本摄像机，建议使用符合以下制造商规格的 NAS。

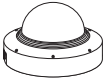
建议产品	可用尺寸
QNAP/SYNOLOGY	最多 16 个摄像机可同时访问。

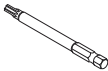


- 如果使用 NAS 设备的目的不是为了保存视频，可以减少可访问摄像机的数量。

随机提供的物品

请检查产品包装内是否已包括摄像机和所有附件。
(配件因销售国家/地区而异。)

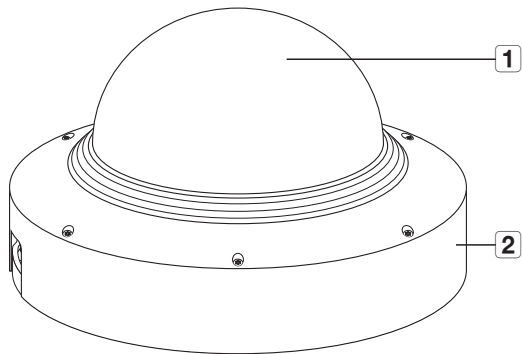
外观	项目名称	数量	说明
	摄像机	1	
	说明手册, Installer 软件 CD	1	
	简介 (可选)	1	
	保修卡 (可选)	1	
	电源接线板	1	插入电源插头
	模板	1	产品安装指南
	电源线	1	用于插入电源插座
	音频/警报器电缆	1	用于连接音频和警报器端口
	线缆保护衬套	1	用于连接直径为7到8.5毫米的局域网线缆。
		1	用于连接直径为5到6.5毫米的局域网线缆。

外观	项目名称	数量	说明
	L 型扳手	1	用于卸下和装回球罩
	支架螺钉	4	用于墙壁或天花板上的安装
	塑料固定器	4	用于固定螺钉, 已插入孔中 (增强固定力量)
	机器螺钉	4	在将产品安装在管道、墙上安装支架等上时, 用于装配圆顶盒; 或者用于堵塞孔。
	Cap Installer	1	连接RJ45电缆时使用
	干燥剂	1	安装时固定在产品内部, 用于防潮。
	钻头	1	用于拆卸、安装球盖和安装摄像机。

概述

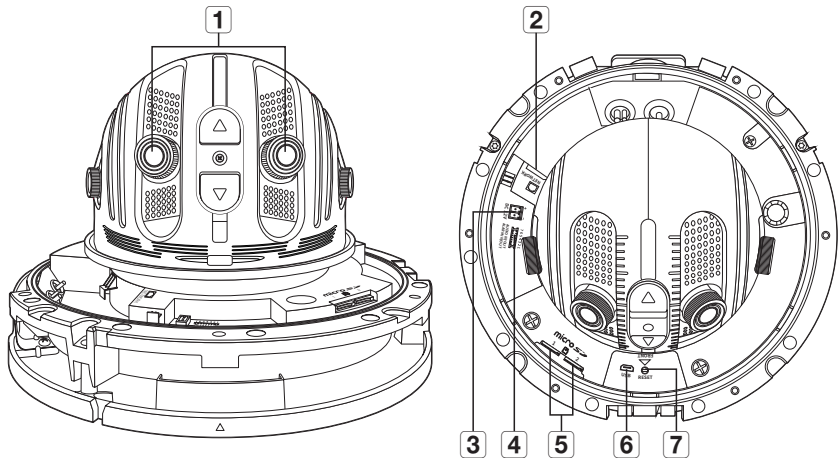
简图

外观



项目	说明
1 球罩	用于保护镜头和主装置的外壳护盖。
2 摄像机外壳	盖住摄像机机身的外壳部分。

组件



项目	说明
1 镜头	由 4 个摄像机镜头生成一个全景图像。
2 网络端口	通过RJ-45电线，连接PoE+或LAN的端子。
3 电源端口	用于电源接线板的端口。
4 音频和警报器电缆端口	将音频和警报器电缆插入该端口,与外置警报器设备/麦克风/扬声器相连接。
5 Micro SD 内存卡盒	用于 Micro SD 内存卡的盒子。
6 MICRO USB 端口	连接 WiFi 接收器的端口。 可通过安装在智能手机中的应用程序查看安装视频。 请参阅第 16 页“连接至 WiFi 接收器”。 ■ Wifi 接收器和 OTG 适配器单独出售。
7 重置按钮	该按钮会将所有摄像机设置恢复为出厂默认值。 按住约 5 秒钟可重启系统。 ■ 如果复位摄像机，则会调整网络设置，以便可以启用 DHCP。如果网络中没有 DHCP 服务器，则必须运行 IP Installer 程序更改基本的网络设置，如 IP 地址、子网掩码、网关等，然后才能连接到网络。

安装与连接

安装



- 型号防水并且符合 IP66 规范，但连接到外部电缆的插孔不防水。建议您将本产品安装在屋檐下，防止电缆因暴露在外而受损。

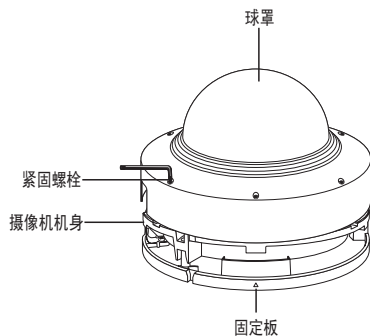
安装前注意事项

安装之前，请确保阅读下列说明：

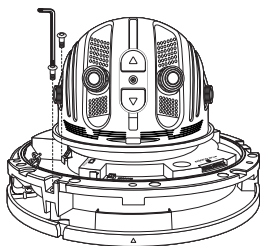
- 选择一个至少可以承受 5 倍摄像机重量的安装地点。
- 破损或脱皮电缆可能会损坏产品或引起火灾。
- 为安全起见，让其他人远离安装地点。将个人所有物放在安装点一侧，以防万一。
- 如安装产品时用力过猛，可能因故障导致摄像机损坏。
使用不兼容工具强行安装可能损坏产品。

拆解

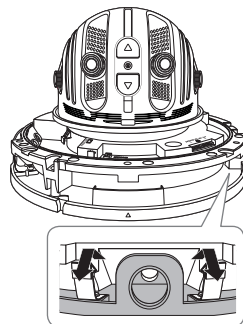
1. 拧松球盖上的紧固螺栓即可卸下球盖。使用随附提供的内六角扳手或钻头逆时针旋转即可。



2. 拧松摄像机主机上的紧固螺栓。

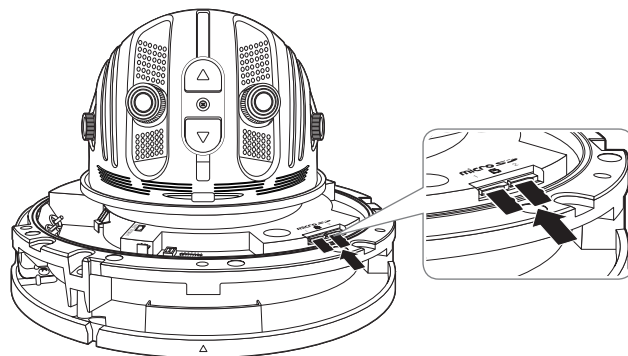


3. 向外拉板簧即可卸下摄像机主机和固定板，如图所示。



插入 Micro SD 存储卡

1. 取下摄像机的汽包盖。
2. 按照图中箭头所示方向插入内存卡。

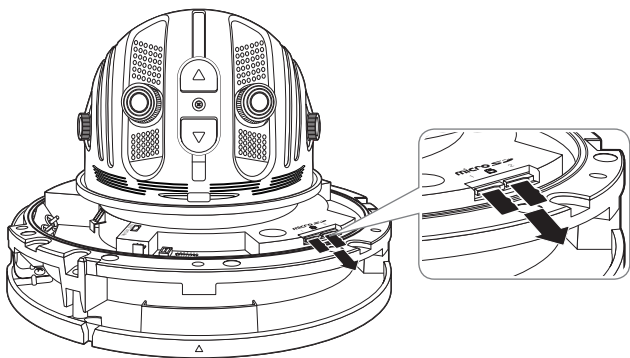


- 安装摄像机前，请先从摄像机拔下电源线后，插入 Micro SD 保存卡。
- 反方向应插有可能导致 Micro SD 记忆卡和产品破损。
- 下雨或湿度较高时，不建议插拔内存卡。
- 产品盖子的拆卸应该在5分钟之内完成，否则会有内部结露的风险。
- 安装/移除 Micro SD 存储卡时，为了防止丢失或掉落配件，必需把产品机身放在平地后再运行。

安装与连接

取出 Micro SD 存储卡

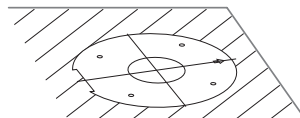
轻轻地按压存储卡露在外面的一端，依图示的方式从拆槽中弹出存储卡。



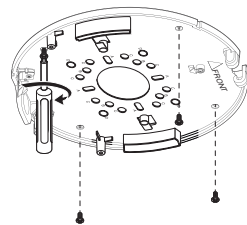
- 您需要保存每个频道的SD卡。
- 请注意，微型 SD 内存卡弹出时如用力推动和释放，内存卡可能会弹起。
- 在移除 Micro SD 存储卡前，请在 <存储器> 中将设备设置为 <关>，然后按下 [应用] 按钮并关闭摄影机。
- 将数据保存在Micro SD存储卡时，若取出存储卡或关掉电源，会导致已存数据的损失。

天花板或墙壁式安装

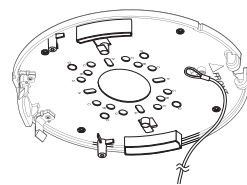
1. 使用随附提供的模板钻出安装时使用的孔（直径 6 mm，最小深度 45 mm），并将随附提供的塑料胀管插入到底部。



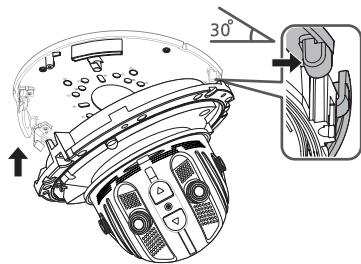
2. 将安装板的安装孔与塑料锚栓插入的孔对齐，然后拧紧自攻螺丝。



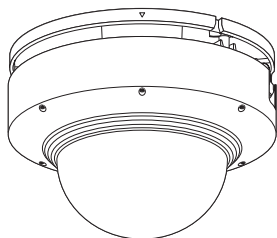
3. 请连接安全电缆。



4. 将摄像机机身插入安装板。
 - 如图所示将其安装至铰链上。
5. 将所需电缆连接到摄像机内部的端子上。
6. 将销弹簧塞进去。
7. 调整镜头至所需方向，具体步骤请参阅“调整摄像机的监视方向”。（第 15 页）
 - 如倾斜镜头，可能需要调整镜头，因为倾斜镜头可能遮挡屏幕画面。



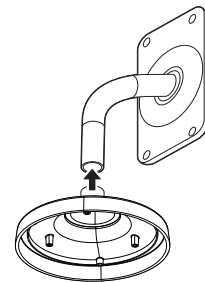
8. 安装球盖。
 - 安装球盖时要对齐箭头。
 - 为确保防水性能，请使用内六角扳手或钻头将紧固螺栓拧紧。
 - 请去掉黏附在气泡盖内/外侧的保护膜。



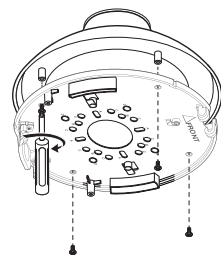
连接至非捆绑销售的适配器

选择并购买下列其中一个必要的选件(非捆绑销售)，它应该适合您的安装位置或为您提供方便。

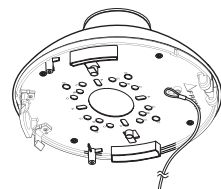
1. 将悬挂式安装件安装在壁挂式适配器上。
 - 壁挂式适配器和悬挂式安装件单独销售。



2. 连接固定板和悬挂架。

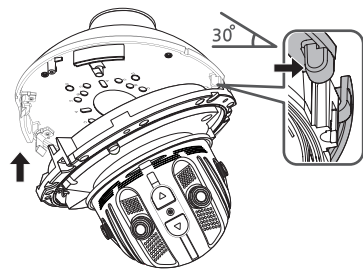


3. 请连接安全电缆。

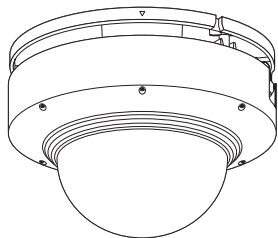


安装与连接

- 将摄像机机身插入安装板。
 - 如图所示将其安装至铰链上。
- 将所需电缆连接到摄像机内部的端子上。
- 将销弹簧塞进去。
- 调整镜头至所需方向，具体步骤请参阅“调整摄像机的监视方向”。（第 15 页）
 - 如倾斜镜头，可能需要调整镜头，因为倾斜镜头可能遮挡屏幕画面。



- 安装球盖。
 - 安装球盖时要对齐箭头。
 - 为确保防水性能，请使用内六角扳手或钻头将紧固螺栓拧紧。
 - 请去掉黏附在气泡盖内/外侧的保护膜。

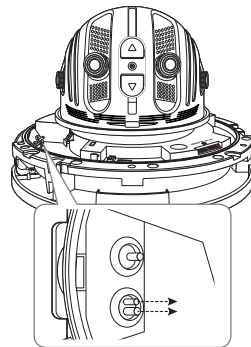


方法1.连接防水电源线及LAN线缆

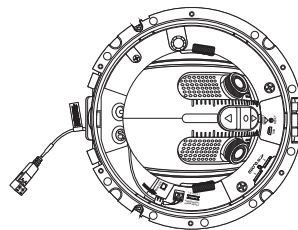
- 卸下球罩和壳体。
- 拉出底座上橡皮塞的长突出部，然后如图所示将其取下。



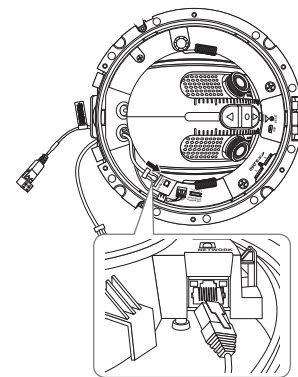
- 将适当的线缆保护衬套用于要连接的局域网线缆。
 - 基础摄像机:使用直径为5到6.5毫米的线缆。
 - 所提供组件:使用直径为7到8.5毫米的线缆。



- 将电源线插入在上述步骤 2 中取下橡皮塞突出部后出现的小孔，然后在长凹槽中布置电缆。
- 将电源线连接到电源接线板。

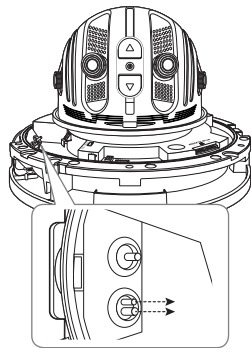


- 将 LAN 电缆插入在上述步骤 2 中取下橡皮塞突出部后出现的大孔。
- 使用电缆剪剥除护皮，然后对齐电缆。
- 为 LAN 电缆接上一个 LAN 接头，然后插入 LAN 工具。
- 将准备就绪的 LAN 电缆连接到以太网端口。

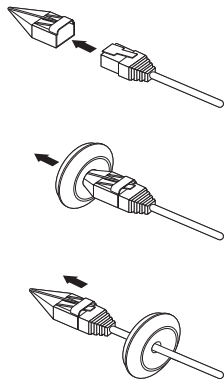


方法2.连接防水电源线及LAN线缆

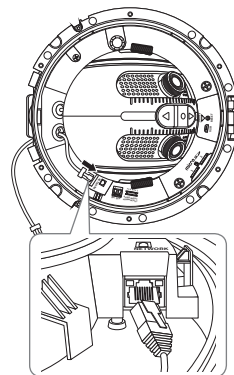
1. 卸下球罩和壳体。
2. 拉出底座上橡皮塞的长突出部，然后如图所示将其取下。
3. 将橡胶盖拉出孔即可取下。



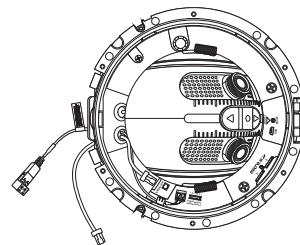
4. 使用盖帽安装器使 RJ45 线缆通过。



5. 再次插入橡胶塞并将 LAN 线缆连接至以太网终端。



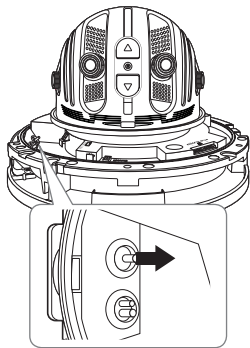
6. 将电源线插入在上述步骤 2 中取下橡皮塞突出部后出现的小孔，然后在长凹槽中布置电缆。
7. 将电源线连接到电源接线板。



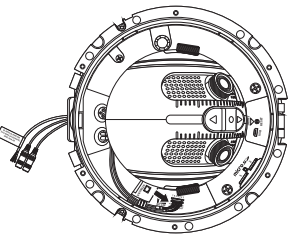
安装与连接

连接音频/警报器线缆

1. 卸下球罩和壳体。
2. 如图所示，拉出底座上的橡皮塞。



3. 在第 2 步中卸下橡胶塞后会出现一个孔，将音频/警报器线缆插入此孔中，并将该线缆连接至 PCB 警报器端子。
4. 对齐电缆，以便在安装摄像机时不会损坏或挤压电缆。
5. 将音频/警报器线缆上的橡胶塞插入到孔中。
6. 请参阅“调整摄像机的监视方向”来调整镜头，使其面向所需的方向。（第 15 页）
7. 联接球罩。



安装选配的安裝适配器

选择并购买下列其中一个必要的选件（非捆绑销售），它应该适合您的安装位置或为您提供方便。

1. 从壳体取下球罩，参考“拆解”部分。（第 9 页）
2. 使用随附摄像机提供的机械螺丝将摄像机外壳固定在选配的安裝适配器上。
3. 连接和排放必要的电缆，以免在安装摄像机时损坏或缠绕它们。
4. 以“拆解”的相反顺序安装摄像机机身。
5. 请参阅“调整摄像机的监视方向”来调整镜头，使其面向所需的方向。（第 15 页）
6. 闭合球罩。
 - 为确保防水性能，请使用内六角扳手或钻头将紧固螺栓拧紧。

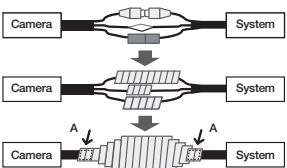
室外安装

当您本产品安装在建筑外部时，请用防水丁基橡胶带对其进行防水处理（商店有售），防止水从连接到外部的电缆缝隙中渗入。

1. 连接电源、I/O 和 LAN 电缆。
2. 用防水（丁基橡胶）带包裹住黑色电缆套管（区域 A）和电缆连接区域，确保一半以上的丁基橡胶带重叠。



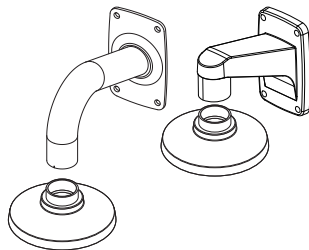
- 如未对电缆套管进行适当的防水操作，它可能直接导致漏水。确保使用橡胶带保护电缆。
- 防水丁基橡胶带由丁基橡胶制成，可拉伸为正常长度的 2 倍。



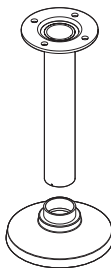
可选的安装附件

为了方便安装，您可以购买可选的附件。

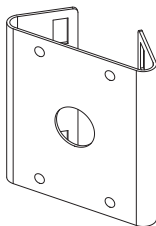
1. 墙上安装适配器 (SBP-300WM 或 SBP-300WM1) / 悬挂安装适配器 (SBP-276HM)
该安装适配器用于将半球型摄像机安装在墙壁上。



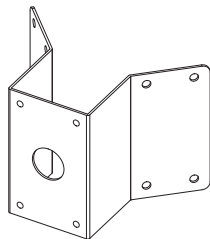
2. 天花板安装适配器 (SBP-276HM) / 悬挂安装适配器 (SBP-300HM6)
该安装适配器用于将半球型摄像机安装在混凝土天花板上。



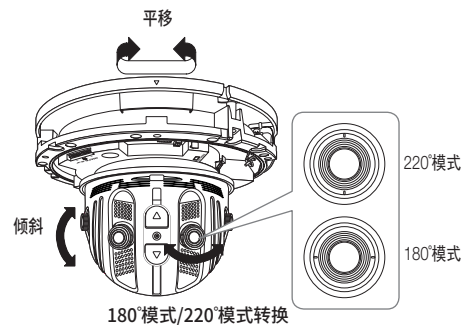
3. 柱式安装适配器 (SBP-300PM)
该安装适配器用于将墙壁式安装适配器 (SBP-300WM or SBP-300WM1) 安装在直径为 80mm 或以上的柱上。



4. 角落安装适配器 (SBP-300KM)
该安装适配器用于将墙壁式安装适配器 (SBP-300WM or SBP-300WM1) 安装在墙角处。



调整摄像机的监视方向



■ 调整监视方向

仅当摄像机固定到天花板上时才能调整摄像机方向。

此时，向左和右方向旋转摄像机主机的过程称为平移，调整摄像机角度的过程称为倾斜。

- 平移的有效范围是共 355 度。
- 倾斜的有效范围是共 60 度。



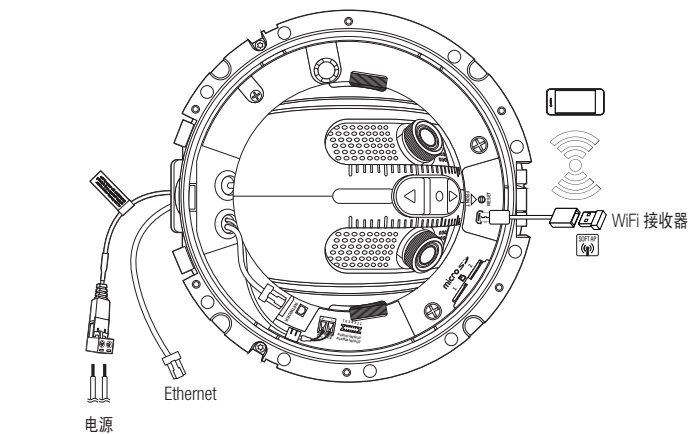
- 某些角度的图像会被摄像机壳遮住。

■ 调整方法

1. 考虑监视方向安装摄像机后调整Pan角度。
2. 调整倾斜角度，以便摄像机面朝监视的对象。
3. 请转动镜头变更180°模式/220°模式。

安装与连接

与其他设备连接



■ 本产品提供的 Micro USB 输出端子是为了便于安装，建议不要用于监视目的。

以太网连接

将以太网电缆连接到本地网络或互联网。

连接 WiFi 的步骤

摄像机设置

1. 将 OTG 适配器（5 针）和 WiFi 接收器连接至 micro USB 终端。

智能手机设置

1. 安装 Wisenet Installation 应用程序。
2. 打开 WiFi 后选择摄像机 SSID。
3. 运行 Wisenet Installation 应用程序。
4. 登录至摄像机即可连接视频
 - 首次连接时无需登录即可播放视频。
5. 可通过智能手机观看视频的同时调整视角。

推荐的接收器生产商

生产商	型号
NETIS	WF2123 n300
EDIMAX	EW-7811Un
IP Time	N100mini
TP-LINK	TL-WN823N V1
ASUS	USB-N13
NETGEAR	WNA3100M

电源

使用螺丝刀将每股电源线 (+, -) 连接至摄像机的相应电源端口。

- 如果同时供应 PoE+ 和 DC12V，将采用来自 DC 12V 的电源为产品供应。
 - 您也可以使用具有 PoE+ 功能的路由器为摄像机供电。
 - 使用符合 IEEE802.3at 协议的 PoE+。
 - 建议仅使用 PoE+、DC 12V 的电源。
- 在连接电源线时，切勿弄反极性。
- 如果要连接外部设备，则必须先关闭外部设备再继续进行。

电源线规格

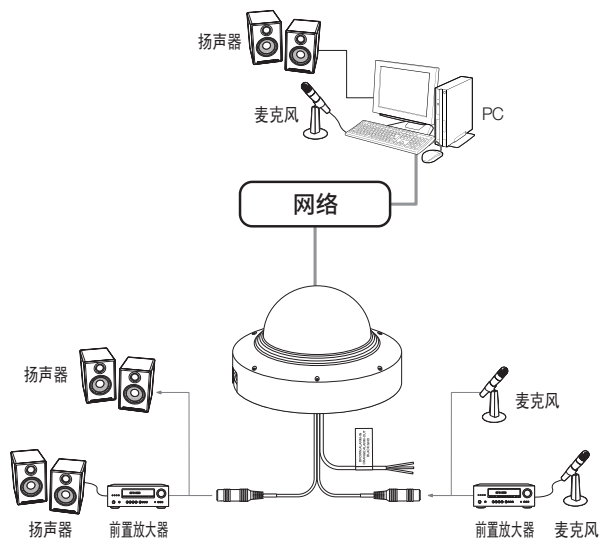
对于 DC 12V 输入：

股线类型 (AWG)	#22	#20	#18
电缆长度 (最大)	24米	38米	60米

网线规格

项目	内含物	备注
连接器	RJ45 (10/100/1000BASE-T)	
以太网	10/100/1000BASE-T	如采用 1000BASE-T 网线，千兆集线器应使用 UTP 6 类或更高级别的电缆。
电缆	UTP 超6类	
最大距离	100米	直流电阻 ≤ 0.188 Ω/m
PoE+ 支持	IEEE 802.3at	

连接音频输入/输出



1. 将摄像机的音频输入端口连接至麦克风或麦克风连接至的扩音器的线性输出端口。
2. 将摄像机的音频输出端口连接至扬声器或扬声器连接至的扩音器的线性输入端口。
3. 检查音频输入的规格。

• 音频编解码器

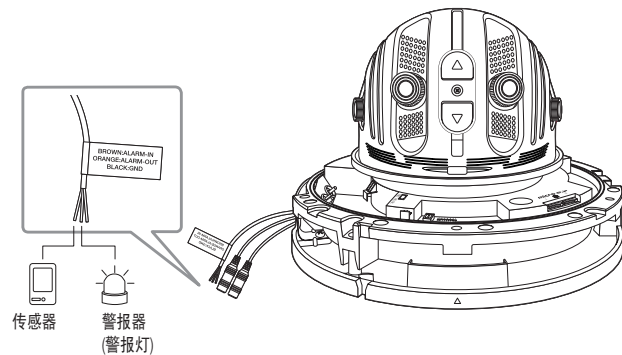
- 音频输入：G.711 PCM(比特率:64kbps / 采样频率:8kHz), G.726 ADPCM(比特率:16Kbps、24Kbps、32Kbps、40Kbps / 采样频率:8kHz), AAC(比特率:48kbps / 采样频率:16kHz)

• 全双工音频

- 音频输入：可选（麦克风/线路输入），支持的电压：2.5VDC (4mA)，输入电阻：2K 欧姆
- 音频输出：线路输出（3.5mm 单声道插孔），最大输出：1Vms
- 线路输出阻抗：600Ω

连接到 I/O 端口

将警报输入/输出电缆连接到端口盒的相应端口。



- ALARM-IN：用于校正警报输入传感器。
- ALARM-OUT：用于连接警报输出信号。
- GND：警报输入/输出信号的公共端。



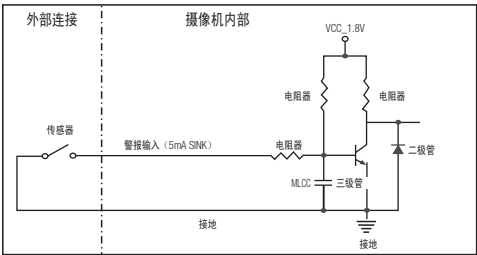
- 如果使用开路集电极方法连接超出电压和电流规格的设备（如闪光灯和警报器），它可能导致故障。在连接超出电压和电流规格的设备时，参考“警报输出线路图”。（第 18 页）

安装与连接

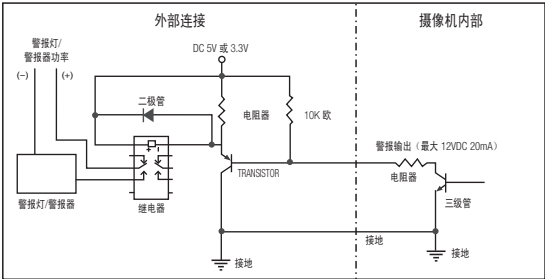
连接外接传感器

将传感器每根信号线（2 线）的一股线连接至 [ALARM IN] 端口，并将另一股线连接至 [GND] 端口。

警报输入线路图



警报输出线路图



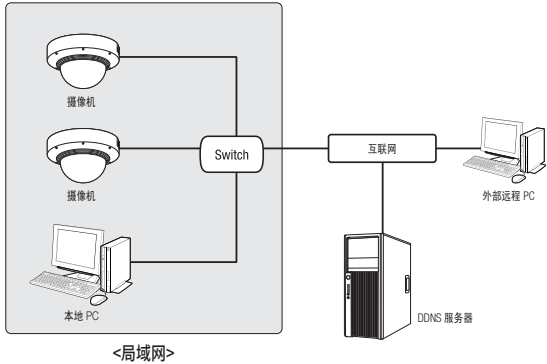
网络连接和设置

可根据您的网络配置来设置网络的设定。

在LAN环境下直接安装摄像机

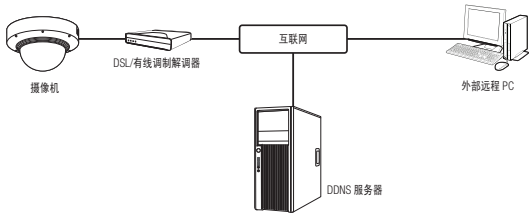
连接局域网内的本地 PC 和摄像机

- 1. 启动本地 PC 上的Web浏览器。
- 2. 在浏览器地址栏中输入要访问的摄像机IP地址。



- 在正确设置防火墙或端口转发前，局域网外部的远程互联网 PC 可能无法连接安装于内部网的摄像机。在此情况下，联系网络管理员解决问题。
- 在IP安装程序中，您可以使用初始密码“4321”来设置IP地址、子网掩码、网关、HTTP端口、VNP端口或IP类型。在更改网络接口后，为了提高安全性，请访问Web查看器并更改密码。
- 出货时，摄像机被设置为DHCP服务器自动分配IP地址。如果没有可用的 DHCP 服务器，则会将 IP 地址设置为 192.168.1.100。要更改 IP 地址，请使用 IP Installer。有关 IP Installer 使用的详细信息，请参阅“静态 IP 设置”。（第 20 页）

将摄像机直接连接至基于 DHCP 的 DSL/有线电视网调制解调器

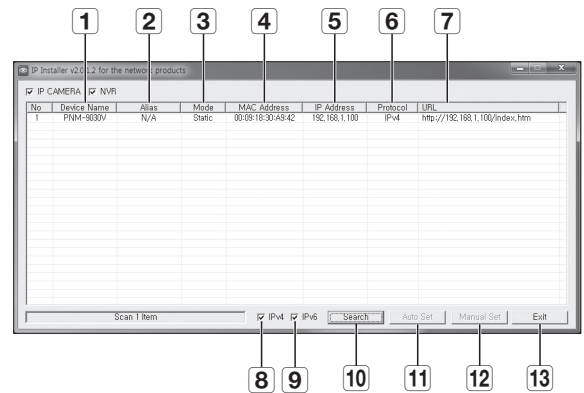


- 1. 直接将用户 PC 与网络摄像机连接。
- 2. 运行 IP Installer 并更改摄像机的 IP 地址，以便可以使用桌面上的 Web 浏览器连接至互联网。
- 3. 使用Web浏览器连接至 Web Viewer。
- 4. 移至 [设置] 页面。
- 5. 移至 [网络] - [DDNS] 并配置 DDNS 设置。
- 6. 移至 [Basic] - [IP & 端口]，并将网络类型设置为 [DHCP]。
- 7. 将摄像机与用户PC分开，并直接连接到调制解调器。
- 8. 重新启动摄像机。

- 要了解如何设置 DDNS 的信息，请参阅 Web 查看器的在线帮助内容。
- 要了解如何设置 IP 格式的信息，请参阅 Web 查看器的在线帮助内容。

网络连接和设置

IP安装器按钮的名称和功能



名称	功能
1 Device Name	已连接摄像机的型号名称。 单击此列标可以按型号名称对列表进行排序。 但是，如果在搜索时单击将会停止搜索。
2 Alias	此功能当前不可用。
3 Mode	在<Static> 和 <Dynamic>中，显示现在的网络状态。
4 MAC(Ethernet) Address	已连接摄像机的以太网地址。 单击此列标可以按以太网对列表进行排序。 但是，如果在搜索时单击将会停止搜索。
5 IP Address	IP 地址。 单击此列标可以按 IP 地址对列表进行排序。 但是，如果在搜索时单击将会停止搜索。
6 Protocol	摄像机的网络设置。 出厂默认设置为 “IPv4”。 使用 IPv6 设置的摄像机将显示 “IPv6”。
7 URL	可从外部网络访问的DDNS URL地址。 若DDNS注册失败, 该列标将显示为摄像机的<IP Address>。
8 IPv4	扫描使用 IPv4 设置的摄像机。

名称	功能
9 IPv6	扫描使用 IPv6 设置的摄像机。 只能在符合 IPv6 的环境中激活。
10 Search	扫描当前连接到网络的摄像机。 但是，如果没有选取 IPv4 也没有选取 IPv6，该按钮将呈灰色。
11 Auto Set	IP Installer 自动配置网络设置。
12 Manual Set	手动配置网络设置。
13 Exit	退出 IP Installer 程序。

- 对于 IP Installer，请仅使用在安装 CD 中提供的版本，或者最新版本（如果可以获得）。
可以从 Hanwha Vision 网站下载最新版本。
- “Device Manager” 可以访问 Hanwha Vision 网站的 (<https://www.HanwhaVision.com>) <Support> - <Online Tool> 进行下载。

静态 IP 设置

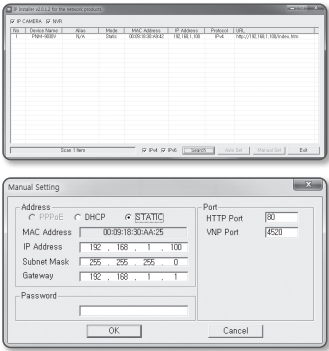
手动网络设置

运行 <IP Installer_v2.XX.exe> 以显示摄像机搜索列表。
在初始启动时，[Auto Set] 和 [Manual Set] 将呈灰色。

- 对于以 IPv6 设置为基础的摄像机，这些按钮将呈灰色，因为摄像机不支持此功能。

- 从搜索列表中选择一个摄像机。
在摄像机的标签上检查摄像机的 MAC 地址。
将激活 [Auto Set] 和 [Manual Set] 按钮。
- 单击 [Manual Set]。
Manual Setting 对话框将会出现。
摄像机的 <IP Address>、<Subnet Mask>、<Gateway>、<HTTP Port> 和 <VNP Port> 均显示为预设置。
- 在 <Address> 窗格中，提供必需的信息。
 - MAC (Ethernet) Address：印在摄像机标签上的 MAC 地址会自动显示，不需要用户设置。

- 只有在未选中 DHCP 的情况下才能设置 IP 相关参数。



如果不使用IP路由器

若要设置 <IP Address>、<Subnet Mask> 和 <Gateway>，请联系网络管理员。

4. 在 <Port> 窗格中，提供必需的信息。

- HTTP Port：用于使用Web浏览器访问摄像机，默认值为 80。
- VNP Port：用于控制视频信号传输，默认值为 4520。

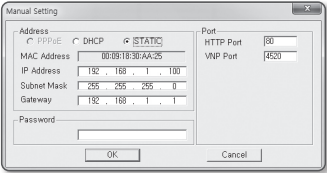
5. 输入密码。

输入用来访问摄像机的“admin”帐户的密码。

- 出于安全考虑，建议您的密码使用数字、大小写字母以及特殊字符的组合。
- 要了解如何更改密码的信息，请参阅 Web 查看器的在线帮助内容。

6. 单击 [OK]。

将完成手动网络设置。



如果使用IP路由器

- IP Address：输入IP路由器提供的 IP 范围内的地址。
例) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask：IP路由器的 <子网掩码> 将是摄像机的 <子网掩码>。
- Gateway：IP路由器的 <本地 IP 地址> 将是摄像机的 <Gateway>。

- 设置可能因连接的IP路由器型号而异。
有关详细信息，请参阅适用路由器的用户手册。
- 如需IP路由器的正向端口的更多信息，请参阅“路由器端口设置”。（第 22 页）



如果IP路由器连接了多个摄像机

分别设置摄像机的IP相关项目和Port相关项目。

例)

	类别	摄像机 1	摄像机 2
IP 相关设置	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
端口相关设置	HTTP Port	8080	8081
	VNP Port	4520	4521

- 如果 <HTTP Port> 设置为除 80 以外的值，您必须在Web浏览器的地址栏中提供 <Port> 号，才能访问摄像机。
例) http://IP address: HTTP Port
http://192.168.1.100:8080

自动网络设置

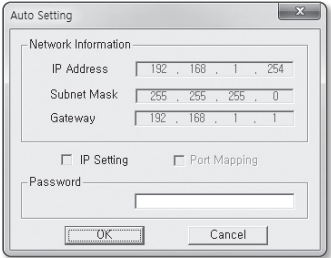
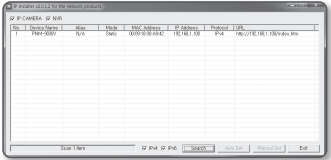
运行 <IP Installer_v2.XX.exe> 以显示摄像机搜索列表。
在初始启动时，[Auto Set] 和 [Manual Set] 将呈灰色。

- 对于以 IPv6 设置为基础的摄像机，这些按钮将呈灰色，因为摄像机不支持此功能。

1. 从搜索列表选择一个摄像机。
在摄像机的标签上检查摄像机的 MAC 地址。
将激活 [Auto Set] 和 [Manual Set] 按钮。
2. 单击 [Auto Set]。
Auto Setting 对话框将会出现。
显示自动搜索到的<IP Address>、<Subnet Mask>和 <Gateway>。
3. 输入密码。
输入用来访问摄像机的“admin”帐户的密码。

- 出于安全考虑，建议您的密码使用数字、大小写字母以及特殊字符的组合。
- 要了解如何更改密码的信息，请参阅 Web 查看器的在线帮助内容。

4. 单击 [OK]。
将完成自动网络设置。



网络连接和设置

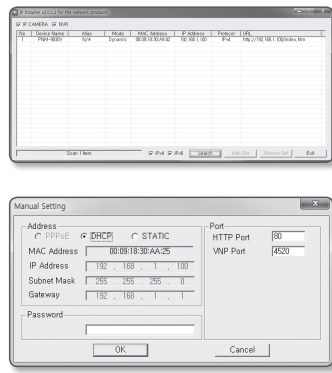
动态 IP 设置

动态 IP 环境设置

- 动态 IP 环境示例
 - 如果连接了摄像机的IP路由器由 DHCP 服务器分配了 IP 地址
 - 将摄像机直接连接到使用DHCP方式的调制解调器时
 - 在LAN环境下, 从内部DHCP服务器获取IP时

检查动态 IP

1. 在用户的本地计算机上运行 IP Installer。
获取<Dynamic IP>的摄像机将会显示在列表中。
2. 从搜索结果中选择摄像机。
3. 单击 [Manual Set] 按钮, 然后检查摄像机的 <Dynamic IP> 地址。
如果取消选择 <DHCP>, 您即可将 IP 更改为 <Static>。

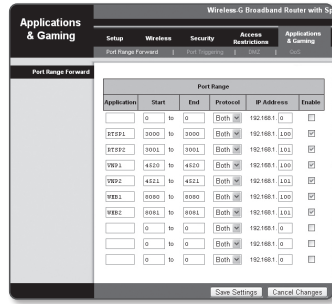


路由器端口设置

如果您安装了连接摄像机的IP路由器,就必须设置在IP路由器上前移的端口范围,以便远程 PC 可以其中的摄像机。

手动端口设置

1. 从IP路由器的 Setup 菜单中, 选择 <Applications & Gaming> - <Port Range Forward>。
关于第三方IP路由器端口转发的菜单位置和设置方法, 请参阅各个IP路由器制造商提供的用户手册。
2. 对连接到IP路由器的每个摄像机选择 <TCP> 和 <UDP Port>。
应当按照摄像机 web 查看器<设置> - <Basic> - <IP & 端口> 中指定的端口数量设置要配置给 IP 路由器的各端口数量。



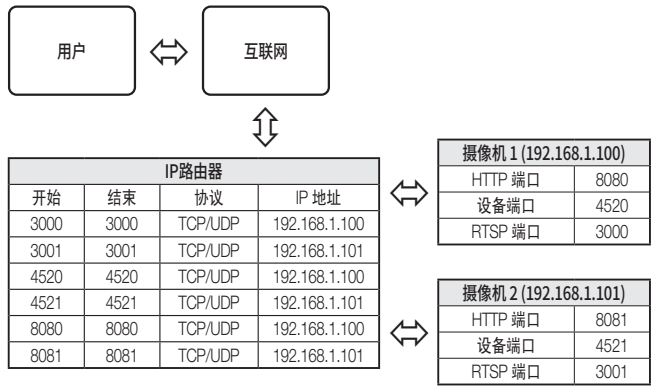
3. 完成后, 单击 [Save Settings]。
将保存设置。

- 以上样本说明基于 CISCO 的IP路由器。
- 设置可能因连接的IP路由器型号而异。
有关详细信息, 请参阅适用路由器的用户手册。

设置多个网络摄像机的端口范围前移

- 在路由器的设置页面, 可设置路由器的端口转发。
- 用户可以使用摄像机设置屏幕更改每个端口。

当摄像机 1 和摄像机 2 连接至同一路由器时：

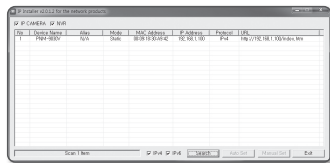


- 如果路由器支持 UPnP (通用即插即用) 功能, 无需额外路由器设置即可实现端口转发。
连接好网络摄像机之后, 选择 “设置 -> 网络 -> DDNS” 下 <DDNS> 中 <快速连接> 菜单中的复选框。

从共享的本地 PC 连接到摄像机

1. 运行 IP Installer。
它将扫描连接的摄像机，并显示摄像机列表。
2. 双击要访问的摄像机。
Web浏览器将启动，并连接到摄像机。

 ■ 您也可以在Web浏览器的地址栏中键入所发现摄像机的 IP 地址的方式访问摄像机。



从远程 PC 通过互联网连接到摄像机

在IP路由器外部的远程PC上,无法使用IP安装器。用户可利用摄像机的DDNS URL, 访问IP路由器内部的摄像机。

1. 您应该设置IP路由器端口范围前移, 然后才能访问IP路由器网络中的摄像机。
2. 为了从外部的远程PC访问摄像机, 启动浏览器后, 在地址栏上输入DDNS URL地址或IP路由器的IP地址。
例) <http://ddns.hanwha-security.com/ID>

 ■ 要了解如何注册 DDNS 的信息, 请参阅网络设置指南。

web 查看器

连接到摄像机

通常,您应该

1. 启动Web浏览器。
2. 在地址栏中键入摄像机的 IP 地址。
例) • IP 地址 (IPv4) : 192.168.1.100 → http://192.168.1.100
- 将会出现登录对话框。
• IP 地址 (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111 →
http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - 将会出现登录对话框。

如果 HTTP 端口为除 80 以外的值

1. 启动Web浏览器。
2. 在地址栏中键入摄像机的 IP 地址和 HTTP 端口号。
例) IP 地址 : 192.168.1.100:HTTP 端口号(8080)
→ http://192.168.1.100:8080 - 将会出现登录对话框。

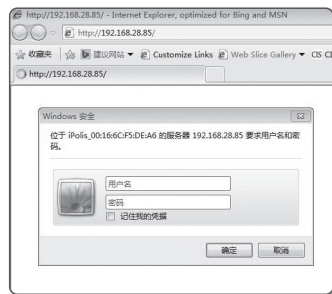
使用 URL

1. 启动Web浏览器。
2. 在地址栏中键入摄像机的 DDNS URL。
例) URL 地址 : http://ddns.hanwha-security.com/ID
- 将会出现登录对话框。

❗ 在只有Local网的环境下, 无法访问摄像机。

通过 UPnP 连接

1. 运行支持 UPnP 协议的客户端或操作系统。
2. 单击搜索到的摄像机名称。
若是Windows操作系统, 单击在网络菜单上被搜索到的摄像机名称。
- 登录窗口即显示出来。



通过 Bonjour 连接

1. 运行支持 Bonjour 协议的客户端或操作系统。
2. 单击搜索到的摄像机名称。
若是Mac操作系统, 在Safari的Bonjour选项卡上, 单击被搜索到的摄像机名称。
- 登录窗口即显示出来。

检查 DDNS 地址

如摄像机直接正确连接至基于 DHCP 的线缆调制解调器或 DSL 调制解调器, 每次尝试连接至 ISP (所订阅的公司) 时, IP 地址都会变化。

在这种情况下, 将不会通知您 IP 地址已被 DDNS 更改。

一旦您向 DDNS 服务器注册了基于动态 IP 的设备, 当尝试访问该设备时, 就可以轻松检查更改的 IP。

要向 <DDNS> 服务器注册您的设备, 请访问 <http://ddns.hanwha-security.com> 并先注册您的设备, 然后将 Web Viewer 的 <网络> - <DDNS> 设置为 <DDNS>, 在<产品ID>上输入已在DDNS服务器上所注册的产品ID。

密码设置

首次访问产品时，必须先注册登录密码。
出现“密码更改”窗口时，输入新密码。



- 对于 8 到 9 位的新密码，必须至少使用下列 3 种类型：大写字母/小写字母、数字和特殊字符。对于 10 到 15 位的密码，必须至少使用上述两种类型。
- 允许使用的特殊字符为：~!@#\$%^&*()_+=[\]{}?/
- 为了获得较高的安全性，建议您不要重复使用相同的字符作为密码，也不要使用连续的键盘输入作为密码。
- 如果您丢失了密码，可按住[RESET]按钮初始化该产品。因此请使用记事簿写下或记住您的密码以防丢失。

登录

每当访问摄像机时，登录窗口都会出现。
输入用户 ID 和密码以访问摄像机。

1. 在 <用户名> 输入框中输入“admin”。
管理员 ID，即“admin”是固定的，无法更改。
2. 在 <密码> 输入字段中输入密码。
3. 单击 [确定]。
如果已成功登录，您将会看到 Live Viewer 屏幕。



- 因视频数据没加密，访问摄像机网络查看器时应格外注意。



- 如果您在完成输入之后选中“记住我的密码”选项，则从下次起将自动登录，而不会提示输入登录信息。
- 如果屏幕大小是 100%，则您可以体验最佳视频质量。降低该比率可能会切掉边框上的图像。

设置摄像机WEB查看器

1. 点击[设置 (⚙️)]图标。
2. 出现设置窗口。
3. 可通过网络配置摄像机基本信息、视频、音频、网络、事件、分析和系统设置。
4. 点击<帮助 (🔗)>查看各项功能的详细描述。

附录

规格

名称		功能
视频	成像设备	1/2.8" 5M CMOS x 4CH
	总像素数	2,704(H) x 2,104(V) 5.69M x 4CH
	有效像素数	2,616(H) x 1,964(V) 5M x 4CH
	扫描系统	循序扫描
	最低照度	彩色：0.15Lux(F2.0, 1/30sec, 30IRE) 黑白：0.01Lux(F2.0, 1/30sec, 30IRE)
	输出视频	USB：Micro USB Type B, 1280x720安装用
镜头	焦距(变焦比率)	4mm
	最大孔径比	F2.0
	视野角度	[180°模式] H：180°, V：70°, [220°模式] H：220°, V：52°
	最短物距	3m(9.84ft)：最小建议距离
	镜头类型	固定焦距
	接口类型	Board-in type (M12)
平移/倾斜/旋转	平移角度	355°
	倾斜角度	60°
	旋转范围	-
操作	摄像机标题	关/开（最多显示 75 个字符） - 中国：英语/数字/特殊/中文字符 - 通用：多行（最多 5 行），颜色（灰色/绿色/红色/蓝色/黑色/白色），透明度，按照分辨率自动伸缩
	日夜	自动 (ICR)/彩色/黑白/计划
	背光补偿	关/背光补偿/WDR
	Wide Dynamic Range	120dB
	对比度增强	SSDR（关/开）
	数字降噪	SSNR/III（2D+3D 噪点过滤器（关/开）

名称		功能
操作	LDC	支持
	透雾	自动/手动/关闭
	移动探测	关/开(各8个，8点多角形动作检测领域)，移焦
	隐私遮挡	关/开(各16个，四角形动作检测领域) - 颜色：灰色、绿色、红色、蓝色、黑色、白色 - 马赛克
	增益控制	关/低/中/高
	白平衡	自动追踪白平衡/自动控制白平衡/手动/室内/室外
	对比	等级调整
	电子快门速度	最小/最大/防闪烁 (2 ~ 1/12,000秒)
	翻转/镜像	翻转：开/关 镜像：开/关
	数字PTZ	支持
	智能视频分析	篡改、徘徊、方向感应、假象线、输出/输入感应、发生/消失感应、移动感应、音响感应、音源分类、热图
	警报 I/O	输入 1ea / 输出 1ea
	音频输入	线路输入 电源电压：2.5VDC (4mA)，输入电阻：大约 2K 欧姆
	音频输出	线路输出（3.5mm 立体声迷你插孔）
	警报触发	警报输入、移动探测、视频&音响分析、网络阻断
	报警事件	- 通过FTP E-Mail发送和上传文件 - 通过E-Mail报警事件 - 网络断开连接以及发生事件（警报触发器）时进行本地存储（SD/SDHC/SDXC）或NAS 录制 - 外部输出
	像素数	支持

名称	功能
以太网	RJ-45 (10/100/1000 BASE-T)
视频压缩格式	H.265(HEVC): Main H.264(MPEG-4 Part 10/AVC): Main/Baseline/High MJPEG
分辨率	[180°模式] 6096x2540, 5760x2400, 5472x2280, 5184x2160, 4800x2000, 4560x1900, 4096x1704, 3840x1600, 2688x1120, 2560x1064, 2048x852, 1920x800, 1280x532, 640x264 [220°模式] 7744x1936, 6096x1524, 5760x1440, 5472x1368, 5184x1296, 4800x1200, 4560x1140, 4096x1024, 3840x960, 2688x672, 2560x640, 2048x512, 1920x480, 1280x320, 640x160
最大帧速率	H.265/H.264: 最大 30fps, 适用于所有分辨率 MJPEG : Max. 15fps at 2MP
Smart Codec(智能编解码器)	手动模式(基于区域: 5 个区域)
WiseStream II	支持
视频质量调整	H.264/H.265 : 目标比特率级别控制 MJPEG : 目标比特率级别控制
比特率控制方法	H.264/H.265 : CBR 或 VBR Motion JPEG : VBR
流能力	多功能流式传输(频道别5个或3个profile)
音频压缩格式	G.711 μ-law/G.726 可选 G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 16KHz 时 48Kbps
音频通信	双向 (双向)
IP	IPv4, IPv6
协议	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP

网络

名称	功能
安全	HTTPS(SSL)认证 摘要认证 IP 地址过滤 用户访问日志 802.1X身份认证 (EAP-TLS, EAP-LEAP)
流方法	单播/多播
最大用户访问量	单播模式下 15 个用户
边缘存储	SD/SDHC/SDXC (最大容量 256GB) - 可以下载记录在 SD/SDHC/SDXC 存储卡内的动态图像。 NAS (网络附加存储) 本地电脑即时记录
应用程序编程接口	ONVIF Profile S/G SUNAPI(HTTP API)
语言	英语、法语、德语、西班牙语、意大利语、中文、韩国、俄语、日语、瑞典语、 葡萄牙语、捷克语、波兰语、土耳其语、荷兰语、匈牙利语、希腊语
Web 查看器	支持的操作系统 : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 支持的浏览器 : Google Chrome 63, MS Edge 41, Mozilla Firefox 57 (Windows 64bit 仅支持), Apple Safari 11 (仅支持 Mac OS X)
综合管理软件	Smart viewer, SSM
工作温度/湿度	-40°C ~ +55°C (-40°F ~ +131°F) / 低于 90% RH *启动温度: -30°C以上
贮藏温度/湿度	-40°C ~ +60°C (-40°F ~ +140°F) / 低于 90% RH
防尘/防水	IP66
防破坏	IK10
输入电压/电流	PoE+(IEEE802.3at Class4), DC 12V
功耗	最大 25.5W (PoE+), 最大 21.0W (DC 12V)
颜色/材料	象牙白/铝制
尺寸(Øx高)	Ø253mm x 高165mm (Ø9.96" x 高6.5")
重量	3.2Kg

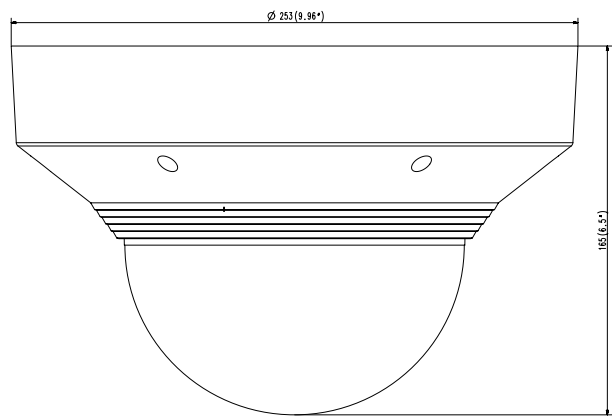
网络

环境

电气

外观

单位：毫米(英寸)



故障排除

故障	解决方法
在 Safari 上通过 HTTPS 访问无插件 web 浏览器时,将不会播放任何视频。	- 在初次访问 https 时出现的验证演出窗口中,点击"查看验证证书"然后选择"连接至指定 web 查看器 IP 时始终信任"复选框。 - 如在下列消息窗口中选择"下一步"之后,web 查看器依然无法播放视频,请按命令键 + Q 退出 Safari 浏览器,再次访问并执行上述步骤。
无法使用Web浏览器访问摄像机。	- 检查摄像机的网络设置 是否正确。 - 检查网络缆线是否正确 连接。 - 若使用 DHCP 连接、检查摄像机是否能够 无故障地获得动态 IP 地址。 - 若摄像机与IP路由器连接、确认是否 正确设置了端口转发。
查看器在监视期间断开。	- 已连接的查看器在摄像机或网络配置发生更改时会断开。 - 检查所有的网络连接。 - 若摄像机通过 PPPoE 网络进行连接,查看器在网络状况不佳的情况下可能会断开。
IP 安装程序未检测到连接至网络的摄像机。	关闭 PC 上的防火墙设置、再次搜索摄像机。
图像重叠。	检查是否将多个摄像机应当设置的不同地址设为了同一多播地址。多个摄像机共享同一地址可能会导致图像的重叠。
无图像出现。	如果传输方法设置为多播, 请检查摄像机所连接的 LAN 中是否有路由器支持多播。

故障	解决方法
<分析>中把<移动探测>设置为“Enable”后,摄像机中发生影像分析事件,也不会以邮件形式传送文件。	- 按以下顺序验证设置： A. 检查<日期和时间>设置。 B. <移动探测>应设置为<启用>。 C. 检查<事件设置>菜单的<电子邮件>选项是否选择为使用。
即使在产生智能视频分析事件时,在报警输出端口也找不到信号。	检查警报输出端口设置。
无法录制到 Micro SD 内存卡。	检查内存卡是否有缺陷。
插入了 Micro SD 内存卡,但摄像机操作不正常。	- 检查是否以正确的方向插入内存卡。不能保证本摄像机装置能正常使用由其他设备格式化的内存卡 - 在<设置>→<事件>→<存储器>菜单中,再次格式化内存卡。
无法录制到 NAS。	确认 NAS 中注册的信息正确无误。
系统报告 NAS 设置失败。	- 确认 NAS 的 IP 地址有效。 - 确认 NAS 的 ID/密码有效。 - 确认您可以访问使用 NAS 的 ID 指定为基本文件夹的文件夹。 - 确认 NAS 的 SMB/CIFS 项已被取消选中。 - 确认 NAS IP 地址和摄像机 IP 地址的格式正确。 Ex) NAS 和摄像机子网掩码的初始值是 255.255.255.0。 如果 IP 地址是 192.168.20.32, NAS IP 地址的范围应该是 192.168.20.1~192.168.20.255。 - 检查在未对已存或使用过的默认文件夹进行格式化前,是否以其他用户进行连接。 - 确认使用了建议的 NAS 设备。

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iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtdd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdd-utils
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
zerocoinf	GPL 2.0	

LGPL SW

Component Name	License	URL
glibc	LGPL 2.0	
inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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- Version 1.1

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revised on December 21, 2006
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).



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