

网络摄像机

用户手册

QNP-6230/QNP-6230H



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. 本产品专门由标有“Class 2”或“LPS”的电源装置供电, 并且额定交流电压为 24 伏(50 或 60 赫兹), 最小电流为 1.6 安或 PoE(42.5V ~ 57V), 最小电流为 0.7 安。(QNP-6230)
16. 本产品专门由标有“Class 2”或“LPS”的电源装置供电, 并且额定交流电压为 24 伏(50 或 60 赫兹), 最小电流为 2.9 安或 PoE(42.5V ~ 57V), 最小电流为 0.9 安。(QNP-6230H)
17. 请勿将摄像机竖直安装在墙壁上。此操作将导致倾斜失步现象。
18. 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。
19. 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。



20. 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。
21. 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。
22. 在水下安装或使用本产品可能导致产品严重损坏。

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。

Pan/Tilt/Zoom电动机和Slip ring可确保连续运行1年的部件寿命。

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。

本产品提供的 CVBS 输出端子是为了便于安装，建议不要用于监视目的。

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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			11	安装
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18	网络连接和设置		18	在LAN环境下直接安装摄像机
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			19	直接将摄像机连接到 PPPoE 调制解调器
			19	将摄像机与使用 PPPoE/Cable 调制解调器的IP路由器连接
			20	如何使用 “Device Manager”
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			22	路由器端口设置
			23	从共享的本地 PC 连接到摄像机
			23	从远程 PC 通过互联网连接到摄像机
24	WEB 查看器		24	连接到摄像机
			25	密码设置
			25	登录
			25	各浏览器插件支持规格
			26	安装 WebViewer 插件
			26	使用无插件 web 查看器
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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
- RAM：8G 或更高
- 支持的操作系统：Windows 7、8.1、10、Mac OS X 10.10、10.11、10.12
- 无插件 web 查看器
支持的 web 浏览器：Google Chrome 63、MS Edge 41、Mozilla Firefox 57 (Windows 64bit 仅支持) , Apple Safari 11 (Mac OS X 仅支持)
- 有插件 Web 查看器
支持的 web 浏览器：MS Explore 11、Apple Safari 11 (Mac OS X 仅支持)

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 NAS	最多 16 个摄像机可同时访问。
Synology NAS	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。

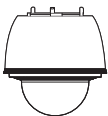
随机提供的物品 (QNP-6230)

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	品名	数量	功能
	摄像机	1	
	简介 (可选)	1	
	保修卡 (可选)	1	
	测试连接线	1	用于连接到便携式显示设备，方便摄像机的安装。
	安装基座	1	用于安装室内或者天花板支架上
	自攻螺钉	4	用于安装在天花板上
	安装模板	1	产品安装指南
	绝缘片	1	将摄像机安装在高湿度场所时使用

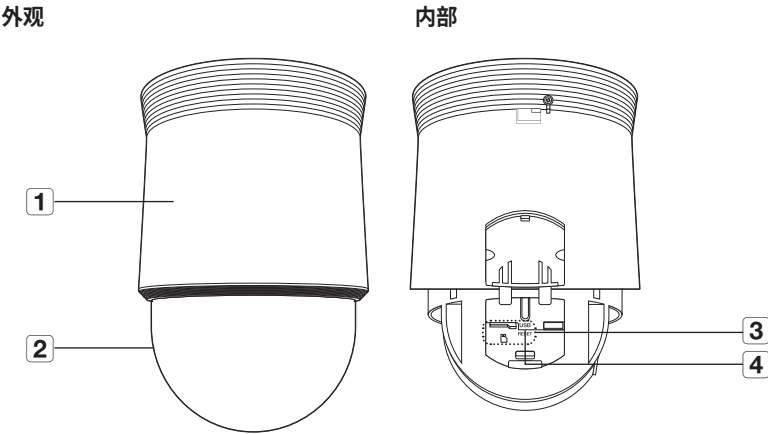
随机提供的物品 (QNP-6230H)

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	品名	数量	功能
	摄像机	1	
	简介 (可选)	1	
	保修卡 (可选)	1	
	测试连接线	1	用于连接到便携式显示设备，方便摄像机的安装。
	六角扳手	1	用于在将安装基座连接至摄像机之后固定基座。
	六角螺钉	3	用于将安装基座安装在摄像机上
	安装基座	1	用于安装在室外支架上
	防水配件	1	在湿度较高的地方安装和使用。

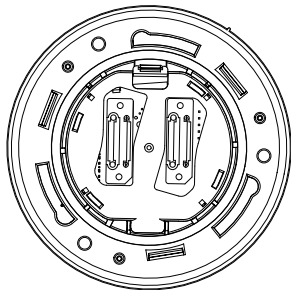
概述

简图 (QNP-6230)

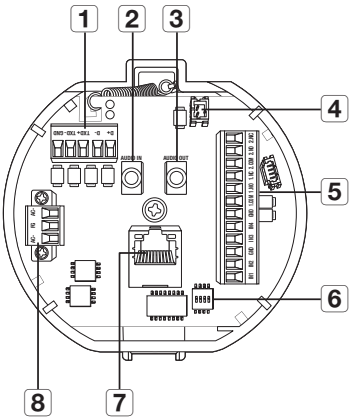


项目	说明
1 主设备	保护 PTZ 装置免受阳光直射或外部冲击。
2 圆顶盖	用于保护镜头和设备的圆顶盖。
3 Micro SD 内存卡槽	用于 Micro SD 内存卡的卡槽。
4 重置按钮	按住此按钮约 5 秒钟会将所有摄像机设置重置为出厂默认值。

安装基座的底部视图



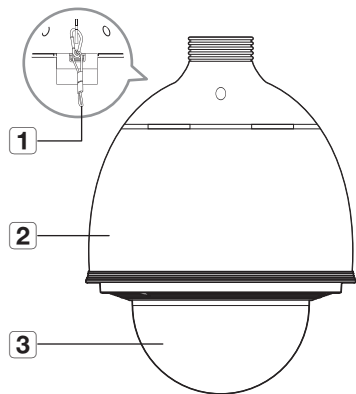
安装基座的内视图



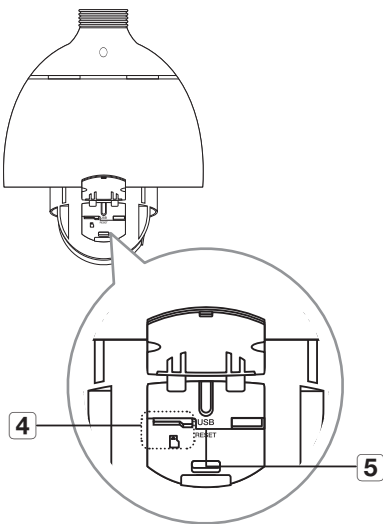
项目	说明
1 通讯端口	用于 RS-485 通信。
2 音频输入端口	用于连接音频输入线。
3 音频输出端口	用于连接音频输出线。
4 视频输出端口	模拟视频输出端口。(用于安装)
5 警报 I/O 端口	用于连接警报 I/O 线。
6 通信设置开关	设置通信协议 (RS-485) 并指明是否要终止。
7 网络连接	使用以太网线缆连接网络的端口。
8 电源端口	用于连接电源。

简图 (QNP-6230H)

外观

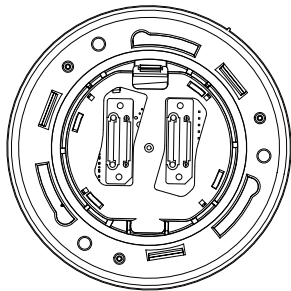


内部

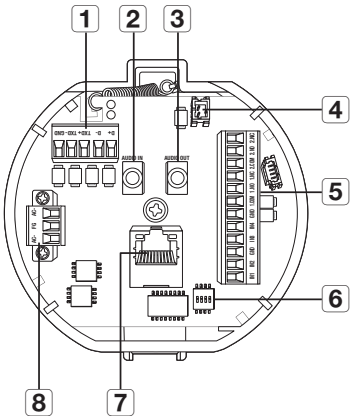


项目	说明
1 安全电缆	此电缆可防止产品在安装过程中跌落。
2 外壳	保护内置 PTZ 机械，避免阳光直射、雨水或外部碰撞。
3 圆顶盖	用于保护镜头和设备的圆顶盖。
4 Micro SD 内存卡槽	用于 Micro SD 内存卡的卡槽。
5 重置按钮	按住此按钮约 5 秒钟会将所有摄像机设置重置为出厂默认值。

安装基座的底部视图



安装基座的内视图



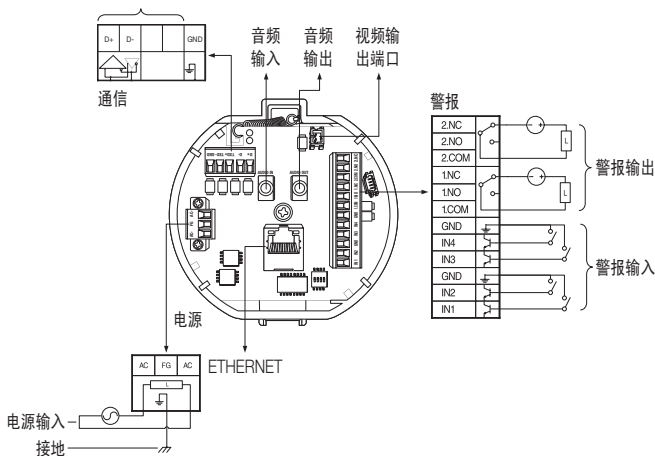
项目	说明
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5 警报 I/O 端口	用于连接警报 I/O 线。
6 通信设置开关	设置通信协议 (RS-485) 并指明是否要终止。
7 网络连接	使用以太网线连接网络的端口。
8 电源端口	用于连接电源。

安装与连接

■ 摄像机接线接口板

对于摄像机接线, 请参阅下图。

请参阅“控制信号连接图”

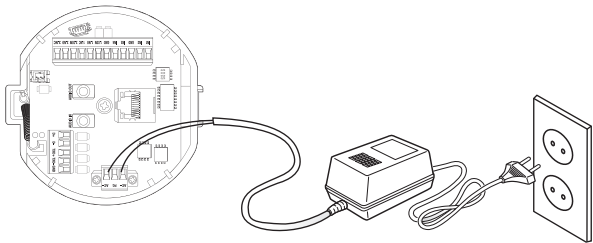


- 从设置菜单中选择常开。
 - 短路接触类型过程中或活动类型中处于“低”级别时, 激活传感器输入。
- 从设置菜单中选择常闭。
 - 接触类型中打开或活动类型中处于高阻抗状态 (打开收集器) 时, 激活传感器输入。
- 警报输出终端的最大容量为30V DC/2A、125V AC/0.5A和250V AC/0.25A。
- 连接警报输入和输出电缆时, 请务必分别将一根电缆连接至一个端子。
- 要连接超过摄像机容量的产品, 请使用额外的继电器设备。
- 如果电源线 and GND 线缆未正确连接到 NC/NO 或 COM 端口, 可能会造成火灾或设备故障。

与其他设备连接

准备适配器和电线

- 将摄像机连接到电源适配器。然后, 将适配器电源线插入到墙壁电源插座。



在连接之前, 检查额定电压和电流。

电压	允许的输入电压
AC 24V	AC22V~26V
PoE+	42.5Vdc~57Vdc

- 如果同时供应 PoE+ 和 AC 24V 电源, 设备会采用先接通的电源。
 - 首选使用单个电源, 即 PoE+ 和 AC 24V 之一。
- 如果连接至提供 PoE+ 电源的交换机设备, 则您不需要供应 AC 24V 电源。
- 请确保 PoE 设备符合 PoE+ (IEEE 802.3at) 规格。
 - 如果设备连接到采用 PoE (IEEE 802.3af) 标准的交换机, 请转到交换机设置菜单来“取消激活 PoE”。有关交换机设备的更多信息, 请参阅制造商的手册。
 - 建议使用符合 PoE+ 规范的线缆。
- 如果使用 PoE+ 作为电源, 启动时间可能会由于交换机型号 (根据频道) 或制造商而存在差异 (因为包括 PoE+ 连接时间)。
- 加热器无法使用 PoE+ 电源。 (QNP-6230H)

[20°C (68°F)] 时铜线的电阻

QNP-6230

铜线电量表 (AWG)	#20	#19	#18	#17
电阻 (Ω/m)	0.0333	0.0264	0.021	0.0166
建议距离 (m)	少于 20	少于 25	少于 30	少于 30

QNP-6230H

铜线电量表 (AWG)	#18	#17	#16	#15
电阻 (Ω/m)	0.021	0.0166	0.0132	0.0104
建议距离 (m)	少于 15	少于 20	少于 25	少于 30

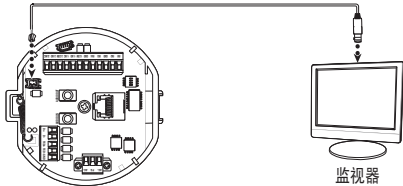
- 如上表中所示，您可能会遇到电压下降，具体视电线长度而定。如果您使用极长的线来连接摄像机，则摄像机可能无法正常工作。
 - 摄像机工作电压：AC 24V±10%
 - 上图中的电压降测量值可能会因铜线的类型和制造商而异。

以太网连接

将以太网电缆连接到本地网络或互联网。

连接安装监视器

使用电缆连接摄像机背面的视频输出端子和监视器的视频输入端子。



- 接线会因监视器类型和外围设备而异；请参阅每个设备的用户手册。
- 连接监视器与摄像机时，请确保它们已关闭。

- 本产品是一款网络摄像机，可通过网络传送视频：视频输出端子用于在安装时设置摄像机的成像范围。
- 将该端子用于监控可能会导致视频质量降低等问题。
- 不适合使用专业 CRT 监视器或 TFT/LCD 便携式监视器进行 24 小时监视。
- 使用网络传输屏幕进行 24 小时监视和存储。

安装

准备和安装摄像机支架

有关支架和机盒的安装指南，请参阅支架或机盒随附的安装手册。

■ 可用的支架型号

型号	项目	QNP-6230	QNP-6230H
SHP-3701H	室外机盒	是	-
SHP-3701F	天花板安装机盒		
SBP-301HM3	悬挂式安装适配器		
SBP-300WM1	墙上安装适配器		是
SBP-300WM			
SBP-300CM	天花板安装适配器		
SBP-300LM	胸墙安装适配器		
SBP-300KM	角落安装适配器		
SBP-300PM	柱式安装适配器		

- 有关每个支架（未捆绑提供）外观的信息，请参阅“可选的安装附件”。（第 15 页）

安装与连接

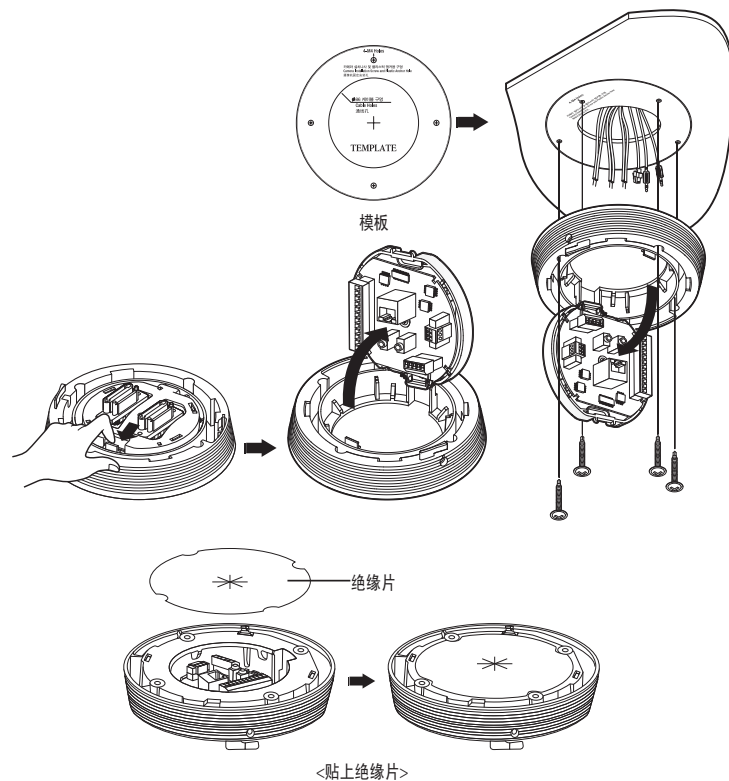
通过水平面附着安装 (QNP-6230)

❗ 不能将 QNP-6230H 安装在墙壁或天花板的水平面上。

■ 粘贴模板和安装安装基座

1. 将提供的模板贴在天花板上。根据模板，在天花板中钻 86mm 的孔并将电线穿过该孔。
2. 如图中所示安装安装基座。
3. 在安装露出的支架时，请打开支架底部的铰链门，如图中所示。按住铰链门上的旋钮可以将门打开。

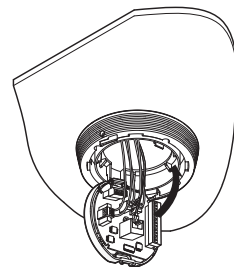
❗ 将摄像机安装在高温场所时，在安装基座背面贴上随附的绝缘片，然后将摄像机安装在天花板上。



■ 连接端子线

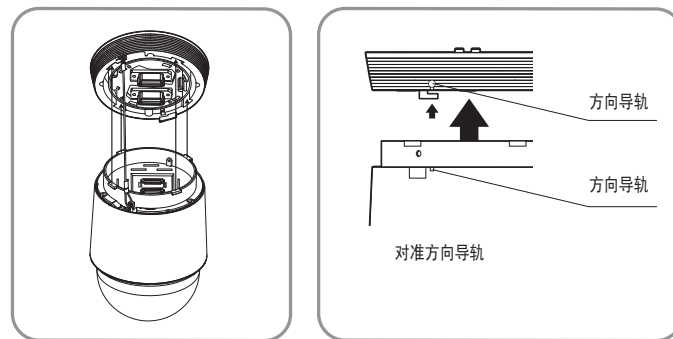
1. 将电线连接至铰链门上的接线端。
请参阅“摄像机接线接口板”。（第 10 页）
2. 接线完成后，关闭铰链门。

❗ 在安装完成之前，不要将摄像机连接到电源插座。
在安装过程中供电可能会导致火灾或损坏产品。



■ 连接摄像机安全索和安装摄像机

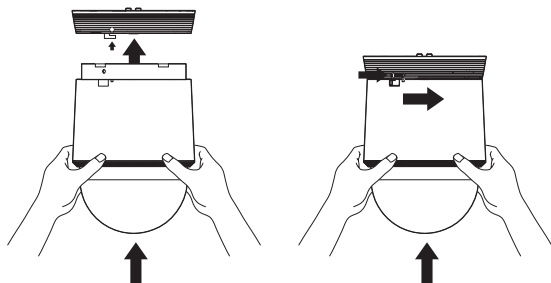
1. 首先，如左图所示，从基座中拉出安全电缆，然后将它钩在底座上。安全电缆收在基座内。
 - 要将摄像机安装到安装适配器上，请参阅图中所示的对准导轨标记。
2. 按照图片中所示的对准导轨标记，谨慎地将摄像机安装至安装适配器。



❗ 确保将摄像机的安全索钩住安装适配器，然后开始工作。否则，摄像机跌落可能让您受到严重伤害。

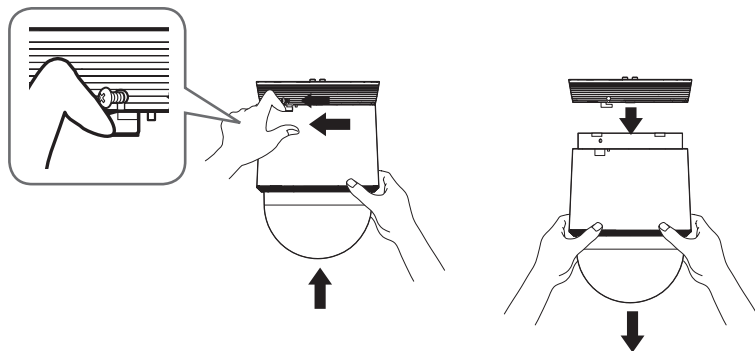
■ 要安装或拆下摄像机,请参阅图片。

- 安装摄像机：如图所示，向上推动摄像机装置并按顺时针方向转动它，直至无法继续转动。完成转动操作后，拧紧装到安装基座上的螺丝。



< 安装摄像机 >

- 拆下摄像机：如图所示，拧松螺丝，推入钩子，并按逆时针方向转动它。
(螺丝未完全卸下)
当无法继续转动钩子时，向下拉摄像机装置并将它拆下。

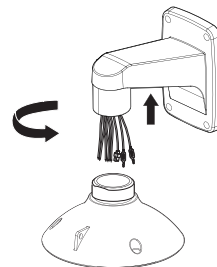


< 拆下摄像机 >

通过墙上安装适配器安装 (QNP-6230H)

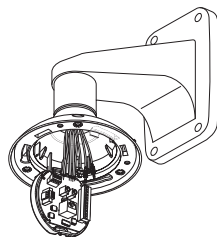
■ 固定安装基座和支架

1. 顺时针旋转支架以固定基座。



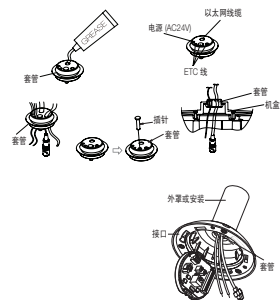
2. 如下图所示，轻按然后提起安装基座底部铰接的门的手柄。
请参阅第 10 页上的“摄像机接线接口板”，连接电线。

- ! 在安装完成之前，不要将摄像机连接到电源插座。在安装过程中供电可能会导致火灾或损坏产品。



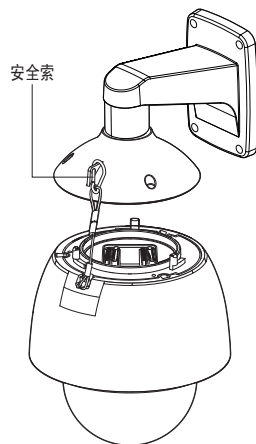
☑ 检查电缆连接方法并进行安装。

- 请注意，套管用于通过管道或安装在暴露于潮湿环境中进行安装，使用套管安装机盒可以防止湿气进入。
 - 在组装前将适量的油脂涂到套管上，然后将电缆穿过套管的每个孔。使用插针堵住没有电缆穿过的空孔。
 - 如下图所示，将套管组装到机盒内侧的顶部。然后，如图所示在机盒上均匀施压以将其牢牢地固定在套管上。



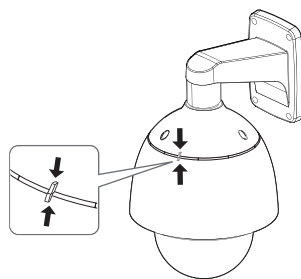
安装与连接

3. 将摄像机安全索连接至安装基座。



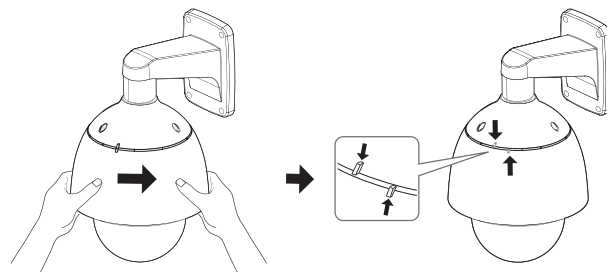
4. 装配摄像机和安装基座

通过对准安装方向导轨装配安装基座和摄像机。



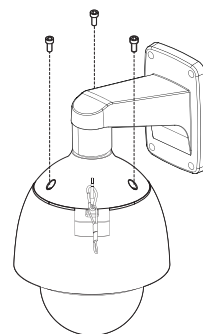
5. 固定摄像机

顺时针方向转动摄像机装置，使顶部和底部的参考指示器如右图所示。



6. 固定摄像机和安装基座

如下图所示，用六角螺钉固定安装底座和摄像机。

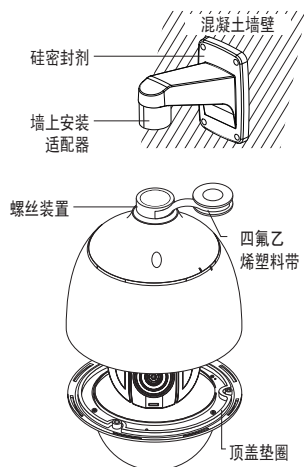


防水注意事项

■ 通过合并室外保护罩和墙上安装适配器,将装置安装在墙壁上

1. 将墙上安装适配器安装在垂直墙壁上。如底座安装在倾斜墙壁上,湿气可能通过外部电缆渗入室外保护罩中。
2. 用足够的四氟乙烯塑料带进行装配,包裹住保护罩的螺丝部分。
3. 取下顶盖并将它固定到保护罩边框时,确保垫圈未从顶盖上松脱。
4. 安装墙上安装适配器进行防水,并在墙壁与墙上安装适配器之间及其周围区域涂上硅密封胶进行密封。

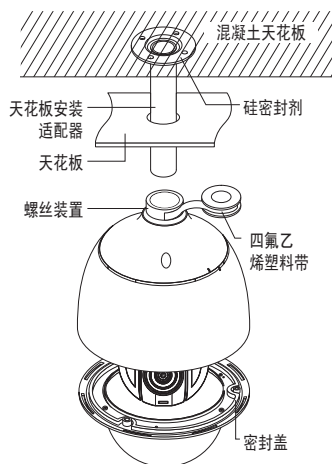
! ■ 安装面不平时请特别注意,确保采取正确的密封措施。



■ 通过合并室外保护罩和天花板安装适配器,安装在墙壁上

1. 用足够的四氟乙烯塑料带进行装配,包裹住保护罩的螺丝部分。
2. 取下顶盖并将它固定到保护罩边框时,确保垫圈不会从顶盖上松脱。
3. 安装天花板安装适配器进行防水,并在墙壁与天花板安装适配器之间及其周围区域涂上硅密封胶进行密封。

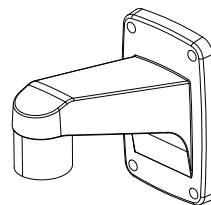
! ■ 安装面不平时请特别注意,确保采取正确的密封措施。



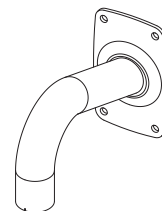
可选的安装附件

为了方便安装,您可以购买可选的附件。

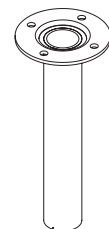
1. 如果将摄像机安装在墙壁上
 - 墙上安装适配器 (SBP-300WM1)



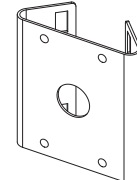
- 墙上安装适配器 (SBP-300WM)



2. 如果将摄像机安装在天花板上
 - 天花板安装适配器 (SBP-300CM)

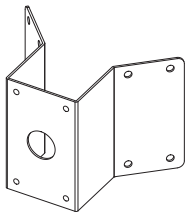


3. 如果将墙上安装适配器 (SBP-300WM/SBP-300WM1) 安装在长度至少为 80 mm 的圆柱上
 - 柱式安装适配器 (SBP-300PM)

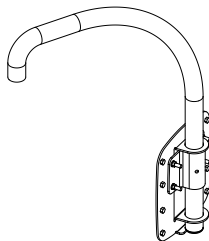


安装与连接

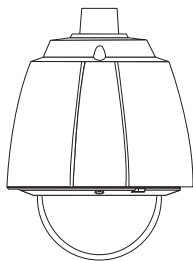
4. 如果将墙上安装适配器 (SBP-300WM /SBP-300WM1) 安装在墙角
- 角落安装适配器 (SBP-300KM)



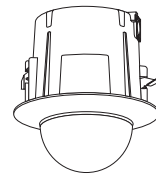
5. 如果安装在屋顶
- 胸墙安装适配器 (SBP-300LM)



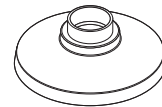
6. 如果将 QNP-6230 安装在室外
- 室外机盒 (SHP-3701H)



7. 如果将 QNP-6230 作为内嵌组件安装在天花板上
- 圆顶摄像机的平齐安装室内机盒 (SHP-3701F)



8. 如果将 QNP-6230 安装在墙上安装适配器或天花板安装适配器中
- 悬挂式安装适配器 (SBP-301HM3)

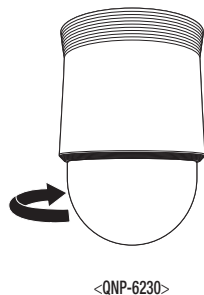


插入/拔出 MICRO SD 存储卡

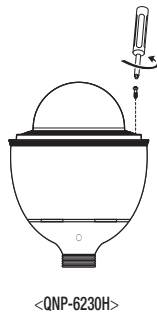
- 安装摄像机前，请先从摄像机拔下电源线后，插入 Micro SD 保存卡。
- 请不要将Micro SD存储卡往逆方向强行插入,以免存储卡破损。
- 下雨或湿度较高时，不建议插拔内存卡。
- 产品盖子的拆卸应该在5分钟之内完成，否则会有内部结露的风险。

插入 Micro SD 存储卡

1. 打开摄像机背面的盖子。(QNP-6230)

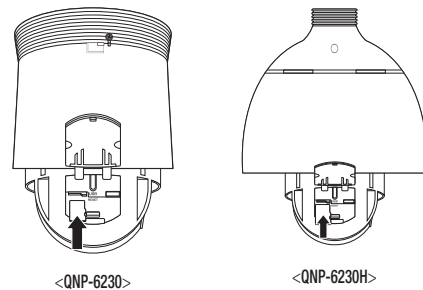


- 使用螺丝刀逆时针旋松螺丝，卸下球盖。(QNP-6230H)



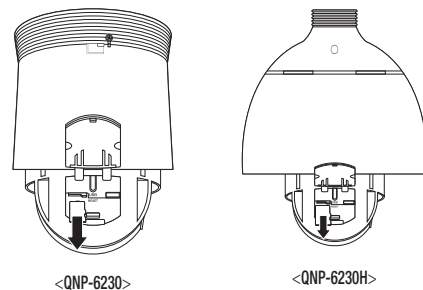
2. 请按图中所示箭头方向推 Micro SD 存储卡。

- ! 请勿在 Micro SD 内存卡翻转时用力插入。否则，可能会损坏 Micro SD 内存卡。



拔出 Micro SD 存储卡

轻轻地按压存储卡露在外面的一端，依图示的方向从卡槽中弹出存储卡。



- ! 过度用力按压 Micro SD 存储卡可能会导致卡不可控制地从卡槽中弹出。
- 取出微型 SD 存储卡之前，先关闭摄像机电源或在<存储器>中将设备设置为<关>，然后按[应用]按钮。
- 如果关闭摄像机或取出 Micro SD 内存卡，并且其中包含来自产品的数据，则数据可能丢失或受损。

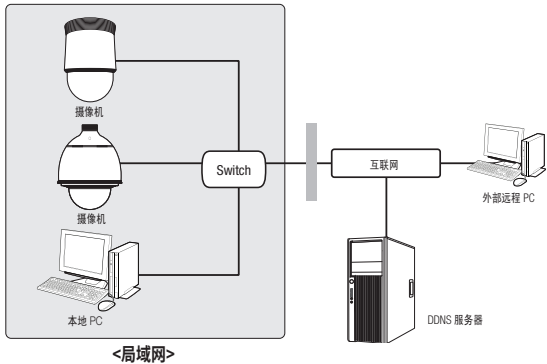
网络连接和设置

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

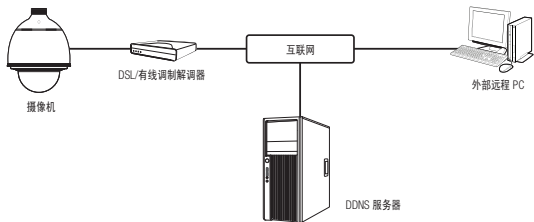
连接局域网内的本地 PC 和摄像机

- 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。
- 可以使用“Device Manager”中的初始密码“4321”设置IP地址，子网掩码，网关，HTTP端口，VNP端口和IP类型。更改网络接口后，请通过连接到Web界面来更改密码以增强安全性。
- 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“Device Manager”。有关如何使用Device Manager，请参阅“使用Device Manager”。（第 20 页）

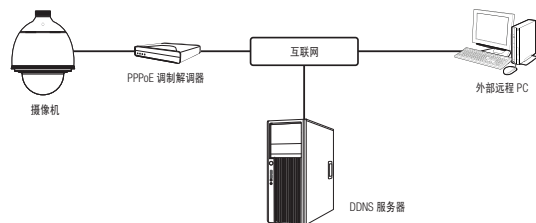
将摄像机直接连接至基于 DHCP 的 DSL/有线电视网调制解调器



- 1. 直接将用户 PC 与网络摄像机连接。
- 2. 使用“Device Manager”将摄像机的IP地址更改为可通过用户计算机从Internet浏览器从访问的IP地址。
- 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。

直接将摄像机连接到 PPPoE 调制解调器

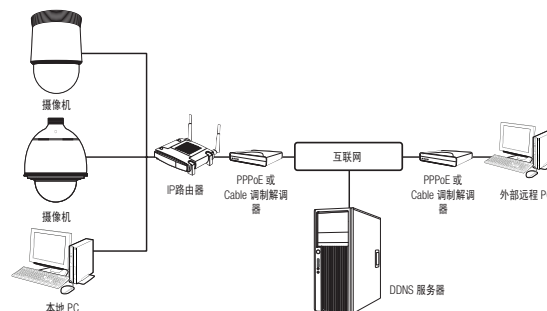


1. 直接将用户 PC 与网络摄像机连接。
2. 使用“Device Manager”将摄像机的IP地址更改为可通过用户计算机从Internet浏览器从访问的IP地址。
3. 使用Web浏览器连接至 Web Viewer。
4. 移至 [设置] 页面。
5. 移至 [网络] - [DDNS] 并配置 DDNS 设置。
6. 移动到 [Basic] - [IP & 端口] 设置页面，将“IP 类型”设置为 [PPPoE]，然后输入网络服务的 ID 和密码。
7. 将摄像机与用户PC分开，并直接连接到调制解调器。
8. 重新启动摄像机。

- 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。

将摄像机与使用 PPPoE/CABLE 调制解调器的IP路由器连接

适用于小型网络环境，如家庭、SOHO 以及普通的商店。



配置与IP路由器连接的本地PC的网络设置

在配置连接到IP路由器的本地 PC 的网络设置时，遵循以下说明。

- 选择：<网上> → <属性> → <本地连接> → <常规> → <属性> → <Internet 协议 (TCP/IP)> → <属性> → <自动获得 IP 地址> 或 <使用下面的 IP 地址>。
- 若您选择的是 <使用下面的 IP 地址>，遵照以下说明操作：

例1) 若IP路由器的地址 (LAN IP) 为 192.168.1.1
IP 地址：192.168.1.100
子网掩码：255.255.255.0
默认网关：192.168.1.1

例2) 若IP路由器的地址 (LAN IP) 为 192.168.0.1
IP 地址：192.168.0.100
子网掩码：255.255.255.0
默认网关：192.168.0.1

例3) 若IP路由器的地址 (LAN IP) 为 192.168.xxx.1
IP 地址：192.168.xxx.100
子网掩码：255.255.255.0
默认网关：192.168.xxx.1

- 关于IP路由器的地址，请参见产品文档。
- 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)

网络连接和设置

如何使用“DEVICE MANAGER”

- 
- “Device Manager”可以访问Hanwha Vision网站的（<https://www.HanwhaVision.com>）<Support> - <Online Tool> 进行下载。
 - 您可以在主页的<帮助>菜单中查看如何使用“Device Manager”。

自动搜寻摄像机

如果摄像机连接到安装了“Device Manager”的PC相同的网络,则可以使用搜索功能查找网络摄像机。

- 请在“Device Manager”主界面上点击<搜索>。
- 确保在搜索列表中搜索到了要连接的摄像机。
 - 请在摄像机附带标签上确认MAC地址。

设置IP地址

若要更改摄像机的网络设置, < 状态 > 项目应标有 <Login OK>。您可以通过单击“Device Manager”主界面 上的 < 验证 > 来登录。

设置 Static IP

- 手动输入并设置IP地址和端口信息。
- 在搜索列表中, 单击要更改IP设置的摄像机。
 - 在“Device Manager”主界面上单击<IP分配>。
 - 选择<分配IP地址>。
 - 摄像机的IP信息将显示为先前设置的值。
 - 输入IP相关项目和端口相关项目。



如果不使用IP路由器

- 有关<IP地址>、<子网掩码>和<网关>设置, 请与网络管理员联系。
- HTTP端口：用于使用Web浏览器访问摄像机, 默认值为 80。
 - VNP端口：用于控制视频信号传输, 默认值为 4520。
 - RTSP端口：此端口为控制实时流媒体的端口, 默认值为554。

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地址 子网掩码 网关	192.168.1.100 255.255.255.0 192.168.1.1
端口相关设置	HTTP端口 VNP端口 RTSP端口	8080 4520 554

- 
- 如果 <HTTP端口> 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>

- 单击[应用]按钮。
- 显示成功确认信息时请点击[确定]按钮。

设置 Dynamic IP

通过DHCP自动分配IP地址

- 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

1. 在搜索列表中单击要更改IP设置的摄像机。
2. 在“Device Manager”主界面上单击<IP分配>。
3. 请选择<自动获取一个IP地址 (DHCP)>。
4. 请点击[适用]按钮。
5. 请在显示成功确认消息时点击[确定]按钮。



手动注册摄像机

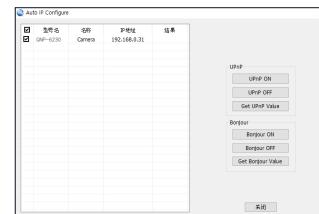
如果通过搜索功能找不到摄像机, 或者摄像机连接到外部网络, 则可以手动输入 IP 信息以远程查找摄像机并进行注册。

1. 在“Device Manager”主界面上单击<添加设备> - <手动注册设备>。
2. 请输入要搜索的IP地址范围。
3. 请选择要注册的摄像机的<型号名>并输入HTTP端口、VNP端口、用户ID和密码。
4. 单击[注册]按钮。
5. 确保在列表中注册了所需的摄像机。
 - 检查相机附带标签上的MAC地址。



自动设置 IP

1. 在搜索列表中, 单击要自动设置IP的摄像机。
2. 在“Device Manager”主界面上单击<+>。
 - 将会出现设备设置菜单。
3. 单击设备设置菜单中的<Auto IP Configure (IP自动设置)>。
4. 单击[关闭]按钮。



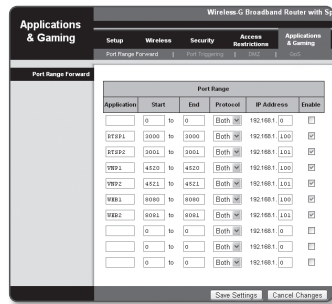
网络连接和设置

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。

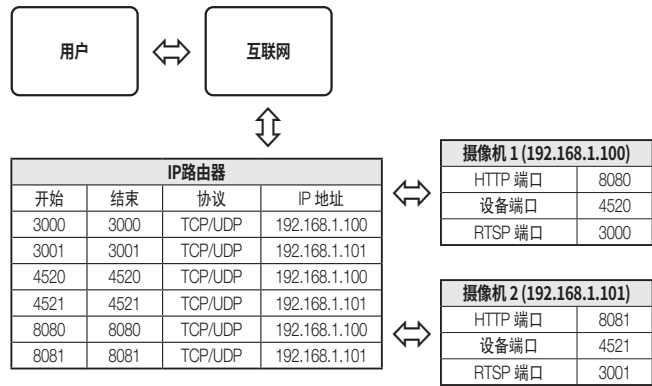


- 设置端口转发说明是CISCO IP路由器设置的示例。
- 设置可能因连接的IP路由器型号而异。
有关详细信息, 请参阅适用路由器的用户手册。

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“Device Manager”。
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路由器的网络集群外部的远程计算机上，用户可以使用摄像机的DDNS URL访问IP路由器网络内的摄像机。

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>



■ 要使用DDNS，您必须先注册在DDNS主页（<http://ddns.hanwha-security.com>）上注册会员，然后在[我的DDNS]>[产品注册]中注册产品。

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。

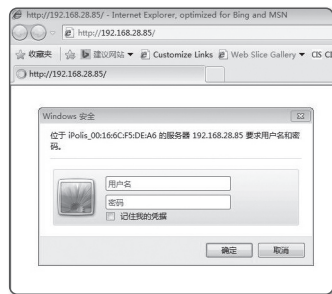
使用 URL

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

如果摄像机直接连接到 DHCP 有线电视网调制解调器、DSL 调制解调器或 PPPoE 调制解调器, 每当您尝试连接到 ISP (互联网服务提供商) 服务器时, 您的网络 IP 地址都会更改。

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。

各浏览器插件支持规格

现有插件 web 查看器和新的无插件 web 查看器已嵌入一起。
如此可允许您在不支持插件的较新浏览器中使用 web 查看器，例如 Chrome、EDGE 和 FireFox（仅 Windows 64 位）。
对于 IE 和 Safari 等允许安装插件的浏览器而言，建议安装插件。
由于浏览器环境不同，可能会出现以下区别。

- **Chrome、FireFox(Windows 64bit 仅支持)、EDGE 浏览器：**虽然上述浏览器不支持插件，但嵌入无插件 web 查看器时，您依然可以使用 web 查看器。



- 由于无插件 web 查看器的性能不如插件 web 查看器，其在监控高品质配置文件和播放保存的视频时可能会受到限制。使用有插件 web 查看器或智能查看器 (SmartViewer) 均可监控高品质配置文件及播放保存的视频。
 - 无插件 web 查看器创建条件：选中的配置文件超过 MJPEG 全高清 10fps H.265 全高清 10fps 2Mbps 或更高
- Chrome 浏览器的无插件功能已得到优化。
- 支持自适应流
 - 该功能在延迟超过 5 秒的情况下自动降低配置文件分辨率。其用于防止在使用低于建议的硬件规格的系统播放视频时出现等待时间延长和浏览器无响应的问题。
视频配置文件分辨率将按照以下顺序减小：1920*1080(20fps) -> 1280*720(20fps) -> 640*480(20fps)。

- **IE、Safari 浏览器：**即使您未安装现有的有插件 web 查看器，也可以使用 web 查看器。



- 如要流畅地监控/播放已保存的视频，必须安装插件。

web 查看器

安装 WEBVIEWER 插件

如要访问有插件 web 查看器并播放实时视频 (H.264/H.265) 或录制的视频, 将弹出一条安装消息。此时, 您需要安装 web 查看器插件, 才能恰当使用该功能。

1. 在第一次访问监控页面时, 屏幕会显示安装页面。 单击 [Download plugin] 以开始安装。

❗ 如果 Internet Explorer 浏览器中的插件安装文件下载状态停留在 99%, 请在“工具 → SmartScreen 筛选器”中选择“释放 SmartScreen 筛选器”。

2. 在消息窗口中单击 [Run]。
3. 当通知窗口指示将关闭所有浏览器窗口时, 单击 [Yes]。

✍ 如果尚未安装任何 Web 浏览器插件, 将跳过步骤 4 和 5。

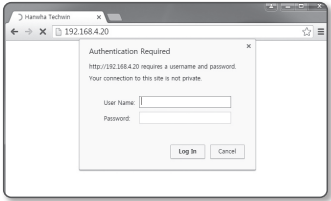
4. 如果已安装了旧版本的 Web 浏览器插件, 屏幕会显示一个通知窗口以指示旧版本将被删除。在该通知窗口中单击 [Yes]。
5. 单击 [OK]。
旧版本的 Web 浏览器插件即被删除。
6. 单击 [Install], 开始安装 Web 浏览器插件。
7. 单击 [Finish]。
Web 浏览器插件即完成安装。

❗ 在您的 Internet 浏览器中, 如果在安装 webviewer 插件后移到安装屏幕, 请检查“工具 → 其他功能管理”菜单中的 webviewer_activexplugin_lib.control 是否“已启用”。如果未启用且一直有问题, 请选择“工具 → Internet 选项 → 常规”并删除所有搜索记录。
如仍有问题, 请在“工具 → Internet 选项 → 安全 → 受信任的站点”下注册摄像机的 IP 或域名。

使用无插件 WEB 查看器

如通过 Google Chrome、Mozilla Firefox 或 MS Edge web 浏览器访问摄像机, 您可能无法单独安装插件, 但您仍可在不安装插件的情况下查看和控制摄像机视频。

1. 输入用户名和密码登录。
2. 成功登录后即显示摄像机实时视图屏幕。



设置摄像机的步骤

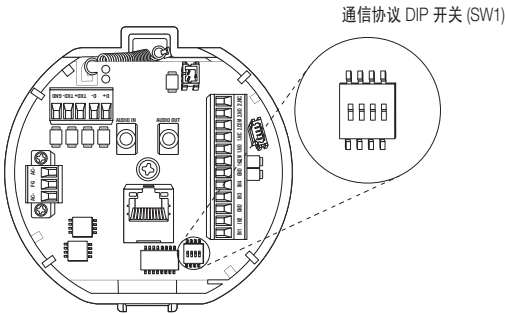
1. 点击[设置 (⚙)]图标。
2. 出现设置窗口。
3. 可通过网络管理摄像机基本信息、PTZ、视频和音频、网络、事件、分析、系统和打开平台的设置。
4. 点击<帮助 (🔗)>查看各项功能的详细描述。

DIP 开关设置

如何设置协议和 ID DIP 开关

可以使用通信和 ID DIP 开关，来控制摄像机系统的各种设置。
在安装产品之前，请根据安装环境设置 DIP 开关。

- 根据安装环境设置开关。有关更详细的设置信息，请参阅下一页上的表。
- 如果未完全打开/关闭开关，摄像机可能会功能异常；在完成设置之前，请仔细检查开关。
- 请注意，使用带尖的工具进行操作时，可能会损坏开关。
- 请注意，使用过大的力进行操作时，可能会损坏开关。



通信协议 DIP 开关设置 (SW1)



SW1 引脚编号	用途
1	设置传输协议 (RS-485)
2	终端设置 1
3	终端设置 2
4	保留

- 通信方法设置**
选择摄像机的通信方法。

	功能	ON	OFF
SW1-#1	传输模式开关	-	RS-485 (2 线)

- 终端设置**
为了防止摄像机和控制器之间的通信信号减弱，必须通过终端设置来设置线路末端的项目。

摄像机输入位置	SW1-#2	SW1-#3
路径最长的终端	ON	ON
路径上	OFF	OFF

- 默认值是在每个设置表中加阴影。
- 要将第三方控制器与本产品配合使用，请与售后服务人员或技术部门联系。

摄像机布线

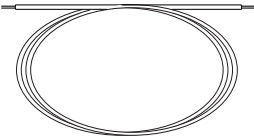
控制信号连接

- RS-485 通信



通信电缆

对于与控制器通信的摄像机，需要 RS-485 通信线。



- 建议使用长度在 30m 或以内的电线来进行连接。
- 摄像机不附带提供通信电缆。

故障排除

故障	解决方法
当 Windows 10 用户通过 Chrome 或 Firefox 浏览器访问 web 查看器时，麦克风音量将做周期性变化。	当 Realtek 驱动程序被设置为麦克风驱动程序时出现此现象。安装高清音频设备 (Windows 默认驱动程序) 或第三方驱动程序作为麦克风驱动程序。
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。
在“Device Manager”中找不到连接到网络的摄像机。	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
即使配置了音频输入设置，也不会录音。	您必须在 <Basic> - <视频配置文件> 中启用 <音频输入> 复选框。
<分析> 的 <移动探测> 设置为 <启用> 但我未收到任何电子邮件通知，甚至发生了分析事件也是如此。	- 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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Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
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
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inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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Eco 标志表明 Hanwha Vision 致力于生产环保型产品，同时也表示该产品符合欧盟 RoHS 标准。

