

网络摄像机

用户手册

XNV-6012/XNV-6012M/XNV-6013M
XNV-6022R/XNV-6022RM

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。

限制

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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. 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。
16. 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。
17. 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。
18. 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。
19. 在水下安装或使用本产品可能导致产品严重损坏。



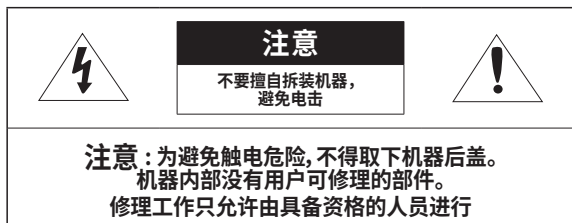
警告

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。

注意



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, 由部件制造商提供并在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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重要的安全说明

推荐 PC 技术规格

建议的 Micro SD/SDHC/SDXC 存储卡规格

NAS 建议规格

随机提供的物品 (XNV-6012/6012M/6022R/6022RM)

随机提供的物品 (XNV-6013M)

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在LAN环境下直接安装摄像机

将摄像机直接连接至基于 DHCP 的 DSL/有线电视网调制解调器

直接将摄像机连接到 PPPoE 调制解调器

将摄像机与使用 PPPoE/Cable 调制解调器的IP路由器连接

如何使用 “Device Manager”

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设置IP地址

手动注册摄像机

自动设置 IP

路由器端口设置

从共享的本地 PC 连接到摄像机

从远程 PC 通过互联网连接到摄像机

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故障排除

Open Source Announcement

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、Mac OS X
 - 无插件 web 查看器
支持的 web 浏览器：Google Chrome、MS Edge、Mozilla Firefox(Windows 64bit 仅支持)、Apple Safari (Mac OS X 仅支持)
 - 有插件 Web 查看器
支持的 web 浏览器：MS Explorer、Apple Safari (Mac OS X 仅支持)
- ※ 请参阅附件了解详细的 OS 和浏览器版本信息。

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。

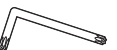


▪ 如果使用 NAS 设备的目的不是为了保存视频，可以减少可访问摄像机的数量。

随机提供的物品 (XNV-6012/6012M/6022R/6022RM)

请检查产品包装内是否已包括摄像机和所有附件。

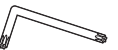
(配件因销售国家/地区而异。)

外观	项目名称	数量	说明	型号名称
	摄像机	1		XNV-6012/ XNV-6012M/ XNV-6022R/ XNV-6022RM
	说明手册, Installer 软件 CD	1		适用于所有型号设备
	简介(可选)	1		
	保修卡(可选)	1		
	星型扳手	1	用于卸下/固定圆顶盖	
	M4 自攻螺钉	2	将摄像机安装到墙壁或天花板上时使用	
	塑料固定器	2	用于固定螺钉, 已插入孔中 (增强固定力量)	
	模板	1	安装摄像机时使用	
	安装支架	1	将摄像机安装到墙壁或(单)工盒时使用	
	用于安装支架的 M4 螺钉	2	将摄像机固定到安装支架上使用	XNV-6012/ XNV-6022R
	RJ45 防水配件	1	用于确保 RJ45 连接器线缆的防水性能	

随机提供的物品 (XNV-6013M)

请检查产品包装内是否已包括摄像机和所有附件。

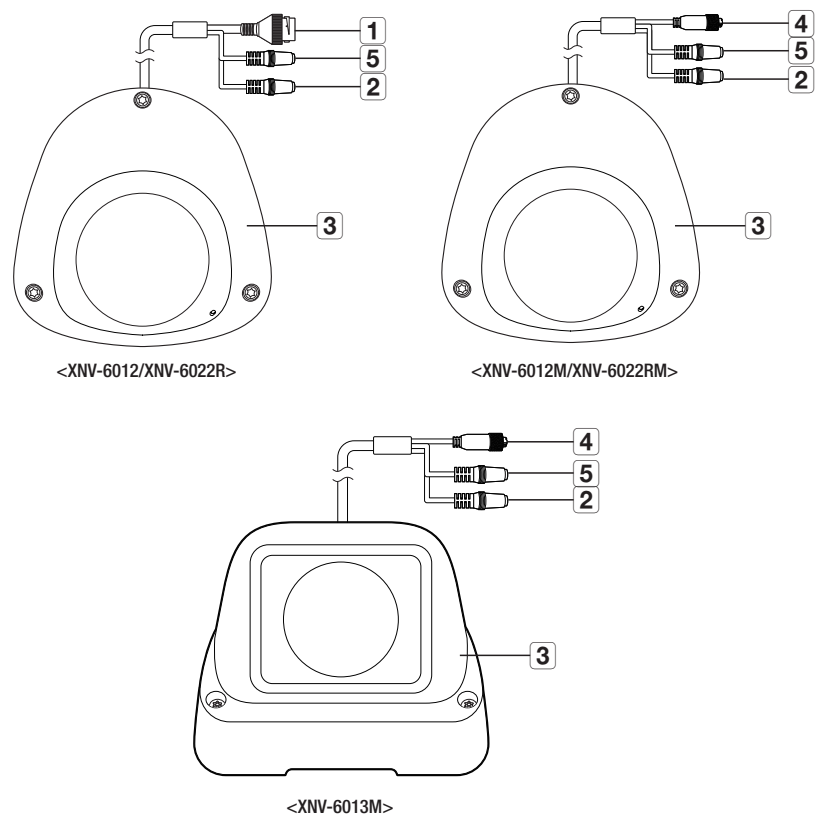
(配件因销售国家/地区而异。)

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	
	星型扳手	1	用于卸下/固定圆顶盖
	M4 自攻螺钉	4	将摄像机安装到墙壁或天花板上时使用
	O 型圈	4	使用 M4 自攻螺钉(防水)
	塑料固定器	4	用于固定螺钉, 已插入孔中 (增强固定力量)
	模板	1	安装摄像机时使用

概述

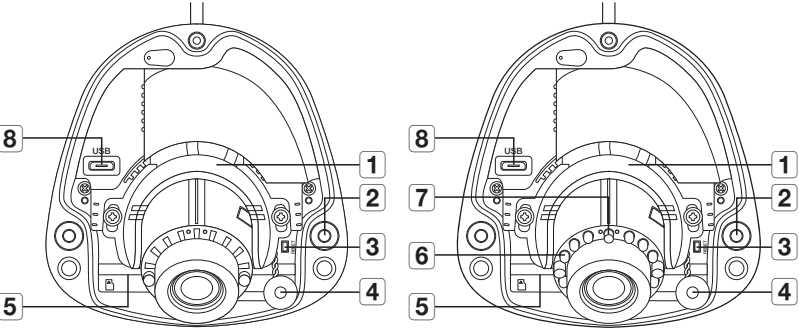
简图

外观



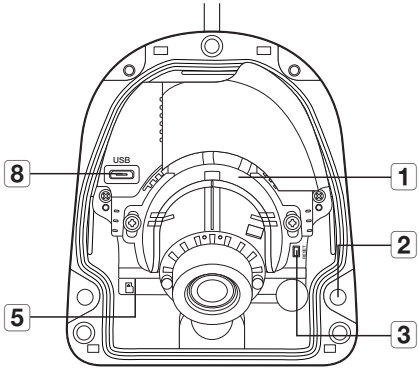
项目	说明
1 PoE 连接器	连接到网络,并通过以太网线缆供电。
2 音频输入插孔	用于连接麦克风。(粉色)
3 圆顶盖	用于保护镜头和主设备的护盖。
4 M12 母插头电缆	连接到 M12 公插头电缆,以进行供电和网络连接。
5 音频输出插孔	用于连接扬声器。(绿色)

内部



<XNV-6012/XNV-6012M>

<XNV-6022R/XNV-6022RM>



<XNV-6013M>

项目	说明
1 镜头盖	用于保护和固定镜头。
2 固定孔	用于将摄像机固定到天花板上的孔。
3 重置按钮	将摄像机设置重置为默认值。按住约 5 秒钟可重启系统。 ■ 摄像机被重置后，其网络设置会变为 DHCP。如果网络中没有 DHCP 服务器，则要使用“Device Manager”程序重新配置基本网络设置才可以从新接入网络 (IP 地址，子网掩码，网关等)
4 麦克风插孔	此处已安装麦克风
5 Micro SD 存储卡槽	用于安装 Micro SD 存储卡。
6 红外 LED	这些红外 LED 由照明传感器控制。
7 照明传感器	检测进入光线以控制红外 LED。
8 MICRO USB 端口	连接 Wi-Fi 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。(用于安装) 请参阅第 15 页“连接至 WiFi 接收器”。 ■ Wi-Fi 接收器和 OTG 适配器单独出售。

安装与连接

安装

安装前注意事项

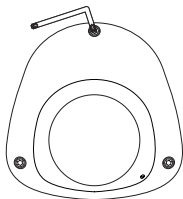
安装之前，请确保阅读下列说明：

- 安装到天花板上时，所需的位置必须至少能够支撑 5 倍的摄像机重量。
- 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。
- 本摄像机是防水产品，符合 IP66 (XNV-6012M/6022RM) 和 IP67 (XNV-6013M) 标准。然而，如未使用 M12 标准连接件和线缆，插孔部分可能不防水。安装本产品时建议使用 M12 标准外部线缆。
- 将摄像机安装在车辆外部时，务必确保将其安装在平整表面上。如安装表面为曲面，可能无法与橡胶完美贴合，也可能无法实现防水功能。

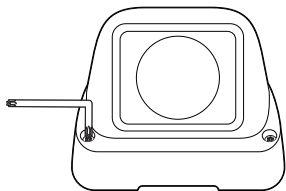
拆解

使用随附提供的星型扳手逆时针方向拧松螺丝，即可卸下球盖。

- 请注意，不需要完全松开螺钉。



<XNV-6012/6012M/6022R/6022RM>



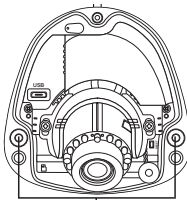
<XNV-6013M>

安装步骤

1. 按照要监视的方向，粘贴模板，并按照模板钻孔。
2. 使用随附提供的自攻螺钉将摄像机固定到孔中。

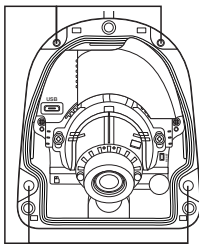


- 将产品安装至墙壁上时，要使用随附的安装支架。



固定孔

<XNV-6012/6012M/6022R/6022RM>



固定孔

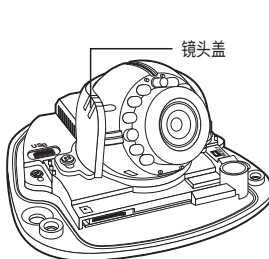
<XNV-6013M>

3. 逆时针旋转摄像机镜头盖两侧的螺钉即可将螺钉拧松。



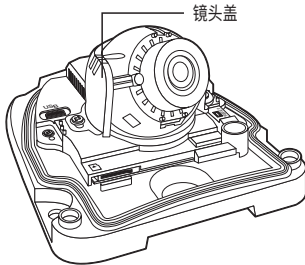
- 如未拧松螺钉即强行偏转镜头（盖）可能导致产品出现故障。

4. 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 13 页）



镜头盖

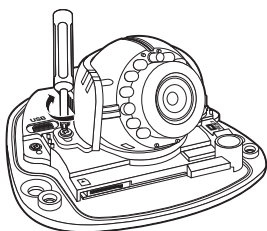
<XNV-6012/6012M/6022R/6022RM>



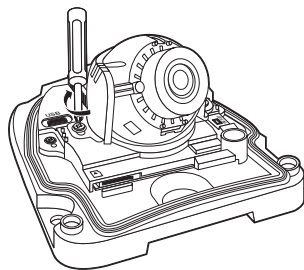
镜头盖

<XNV-6013M>

5. 调整好角度后, 顺时针旋转螺钉, 固定镜头角度。



<XNV-6012/6012M/6022R/6022RM>



<XNV-6013M>

6. (仅限XNV-6013M) 附加一个额外的干燥剂 (卡片类型)。

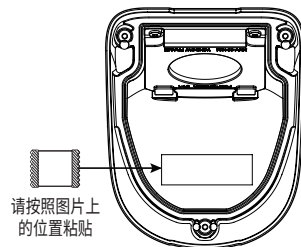
附件干燥剂会单独密封包装提供, 该干燥剂用于防止在产品安装过程中 (分离盖子) 设备内部进入湿气所引起的圆顶湿气 (结露) 现象。

1) 请打开干燥剂 (附件提供) 的包装。

2) 取下干燥剂粘合面上的保护胶带, 如图所示将其粘贴在顶盖内侧。

3) 将粘上干燥剂的顶盖拧紧到机身上。

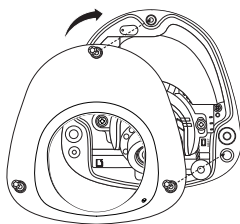
- ❗ 请勿安装在潮湿的环境中。(可能会导致圆顶内发生湿气 (结露))
- 请勿使分离盖子的状态超过10分钟。
- 打开干燥剂的包装后
 - 请勿超过5分钟。
 - 注意不要占到水分。
- [分离盖子→粘贴干燥剂→拧紧盖子]请在10分钟内完成整个过程。



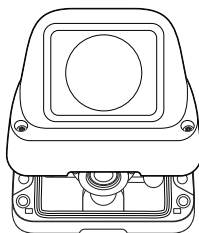
请按照图片上的位置粘贴

7. 盖上顶盖, 使用星型扳手顺时针方向拧紧螺丝, 固定顶盖。

- ❗ 如果护盖无法牢固固定, 则可能会发生防水问题。



<XNV-6012/6012M/6022R/6022RM>



<XNV-6013M>

如何将 RJ45 防水电缆连接到 LAN 电缆 (XNV-6012/6022R)

1. 沿箭头方向插入。

2. 将 LAN 连接器 (插头) 连接到电缆。

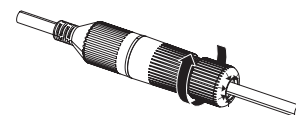
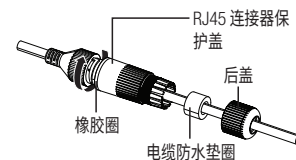
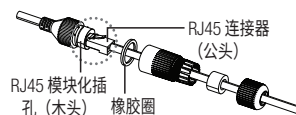
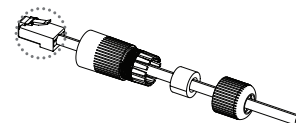
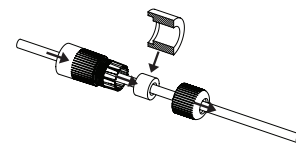
3. 将 RJ45 模块化插孔 (插孔) 连接到 RJ45 连接器 (插头)。

- ❗ 请保留拆下的每个零部件。

4. 通过顺时针旋转 RJ45 模块化插孔 (插孔) 和 RJ45 保护盖 (按箭头方向) 来进行组装。

5. 通过顺时针旋转 RJ45 保护盖和后盖 (按箭头方向) 来进行组装。组装后盖时, 使用电缆防水垫圈与电缆紧密相连, 以使其能够防水。

- ❗ 您必须安装彻底, 以将后盖向上旋转至 RJ45 连接器螺纹的末端。



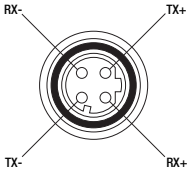
安装与连接

连接插头电缆 (XNV-6012M/6013M/6022RM)

将 M12 公插头插入摄像机 M12 母插头的孔中。

- 该摄像机使用 D 型母插头。
- 支持 PoE（以太网供电）。
- 建议使用屏蔽式网络插头。

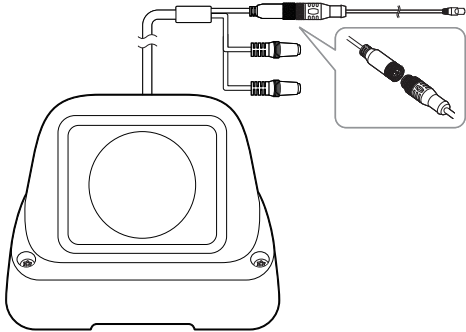
- 将该摄像机连接到屏蔽式网络电缆（STP）。
- 请使用符合 M12 规范的 4 针 D 型公插头外部电缆。
- 检查 PoE 设备是否正确接地。



使用 M12-RJ45 转换线缆进行连接 (XNV-6012M/6013M/6022RM)

将转换线的 M12 外插头连接到摄像机的 M12 内接头的凹槽。

- M12-RJ45 线缆单独出售。



供电和联网 (XNV-6012/6022R)

将摄像机连接至一个 PoE 设备。

- 连接到支持 PoE（以太网供电）的路由器 PoE 插头。
- 使用符合 IEEE802.3af 协议的 PoE（以太网供电）。

供电和联网 (XNV-6012M/6013M/6022RM)

将摄像机连接至 PoE 设备或将您摄像机的 M12-RJ45 转换线缆连接器连接至 PoE 设备。

- 连接方法可能会因用户的安装环境而有所不同。
- 连接到支持 PoE（以太网供电）的路由器 PoE 插头。
- 使用符合 IEEE802.3af 协议的 PoE（以太网供电）。只能使用通过数据引脚对 1、2、3、6 供电的 A 型 PoE 设备。
- 即使您使用的是 M12-RJ45 转换线缆，也仅可使用 A 型 PoE 设备，因为该类型设备支持向数据对针 1、2、3 和 6 供电。

网线规格

项目	内含物	备注
连接器	RJ45	
以太网	10/100Base-T	10/100 Mbps
电缆	UTP 超五类	
最大距离	100米	直流电阻 $\leq 0.188 \Omega/\text{m}$
PoE 支持	IEEE 802.3af	

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。(XNV-6012/6022R)

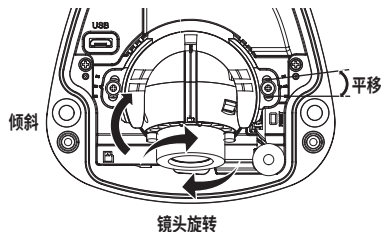
因为如果在建筑物外安装时未使用 M12 插头和 M12 电缆，外部连接的电缆间隙有可能会漏水，因此需要使用丁基橡胶防水胶带进行防水，如下图所示。(XNV-6012M/6013M/6022RM)

- 连接 PoE 线缆。
- 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。

调整摄像机的监视方向 (XNV-6012/6012M/6022R/6022RM)



■ 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。

调整时，左右旋转摄像机装置称为“平移”，调整倾斜度称为“倾斜”，沿镜头轴转动镜头称为“旋转”。

- 最大平移范围是 -5° 至 $+5^{\circ}$ 。
- 旋转角度是 -90° 或 $+90^{\circ}$ 。
- 总倾斜角度范围是 67° 。

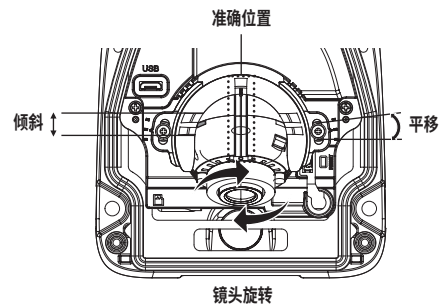


- 如未按照说明中列示的角度使用摄像机，则可能造成红外反射或模糊影像。

■ 调整方法

1. 安装完摄像机后，按照要监视的方向，调整平移角度。
2. 设置为水平角度，使图像不会颠倒。
3. 调整倾斜角度，以便摄像机面朝监视的对象。

调整摄像机的监视方向 (XNV-6013M)



■ 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。

调整时，左右旋转摄像机装置称为“平移”，调整倾斜度称为“倾斜”，沿镜头轴转动镜头称为“旋转”。

- 最大平移范围是 -5° 至 $+5^{\circ}$ 。
- 旋转角度是 -90° 或 $+90^{\circ}$ 。
- 最大倾斜角度为 -10° 至 $+10^{\circ}$ 。



- 如使用非指定的旋转角度，图像可能被挡住。尤其应注意在调整倾斜角度时，请勿将镜头上标示的部分伸出箭头范围之外。
- 同时使用平移和倾斜功能时，图像可能被挡住。
- 如过道视图未处于正确位置（0度），图像可能被挡住。

■ 调整方法

1. 将镜头中心处的长标志置于准确位置。
2. 安装完摄像机后，按照要监视的方向，调整平移角度。
3. 设置为水平角度，使图像不会颠倒。
4. 调整倾斜角度，以便摄像机面朝监视的对象。

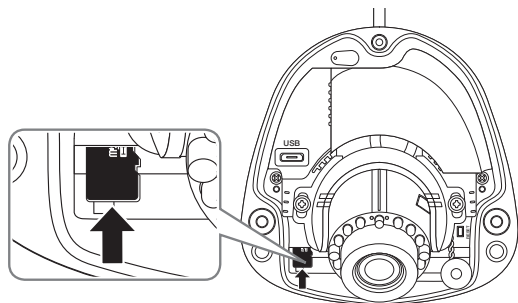
安装与连接

插入/取出 MICRO SD 存储卡

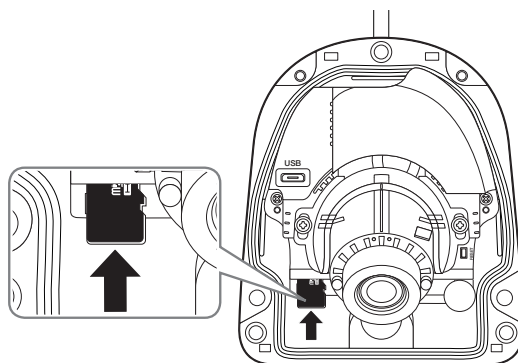
- ❗ 请先从摄像机拔下电源线，再插入 Micro SD 存储卡。
- 请勿在 Micro SD 存储卡倒放时用力插入。可能会损坏 Micro SD 存储卡槽。
- 下雨或湿度较高时，不建议插拔内存卡。
- 产品盖子的拆卸应该在5分钟之内完成，否则会有内部结露的风险。

插入 Micro SD 存储卡

请按图中所示箭头方向推 Micro SD 存储卡。



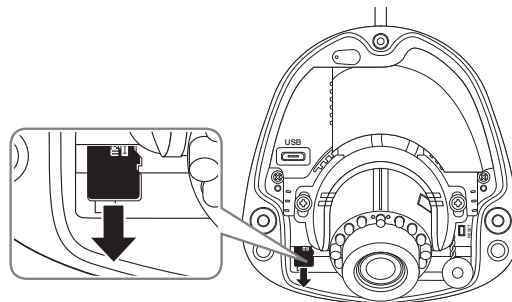
<XNV-6012/6012M/6022R/6022RM>



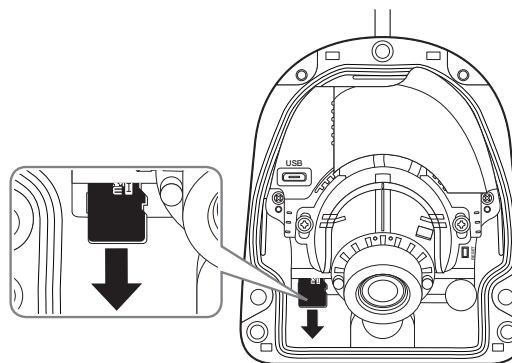
<XNV-6013M>

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。



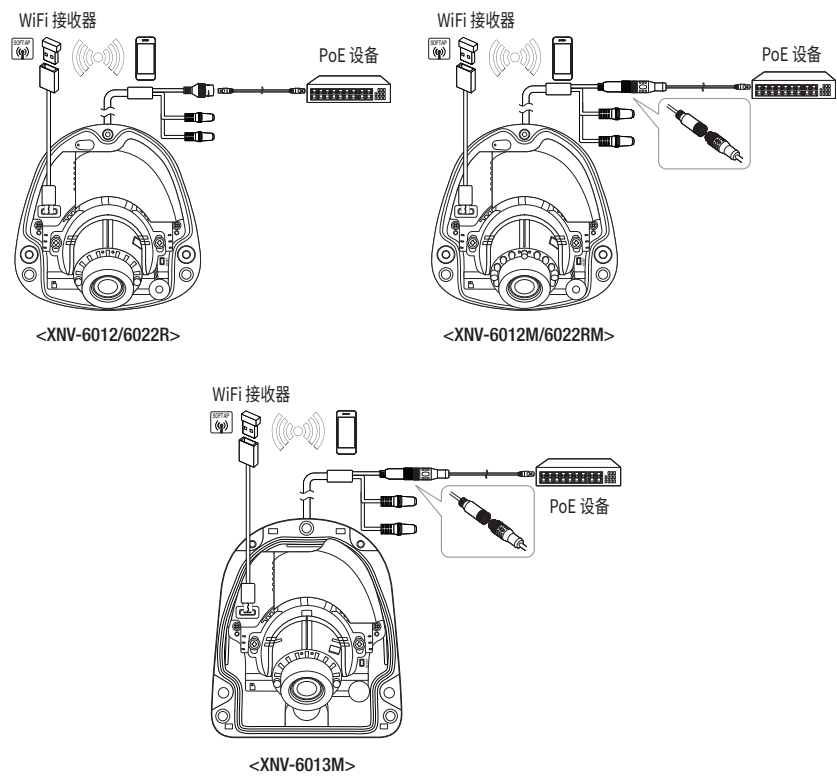
<XNV-6012/6012M/6022R/6022RM>



<XNV-6013M>

- ❗ 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。
- 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。

与其他设备连接



连接 Wi-Fi 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（初始密码：4321）
 - 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。

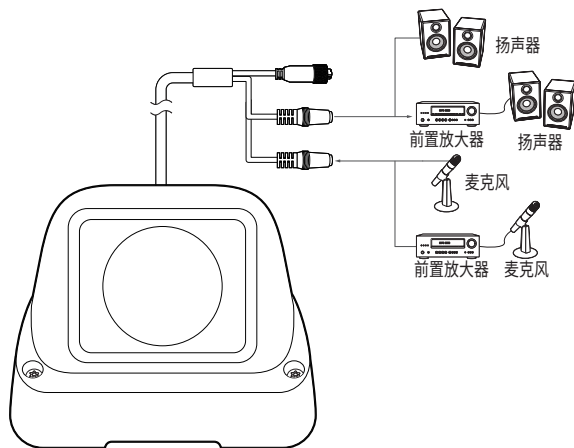
推荐的接收器生产商

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

■ 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。

安装与连接

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。

- 本产品内置麦克风，因此您可以使用内置麦克风，无需使用外置麦克风。
(仅适用于 XNV-6012 / 6012M / 6022R / 6022RM。)
- 如周围噪音过大，建议使用外置麦克风。

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)
- 音频输出：G.711 PCM (比特率：64kbps/采样频率：8kHz)

• 全双工音频

- **音频输入 (XNV-6012/6012M/6022R/6022RM)**: 可选 (麦克风/线路输入/内置麦克风), 支持的电压: 2.5VDC (4mA), 输入电阻: 2K 欧姆
- **音频输入 (XNV-6013M)**: 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

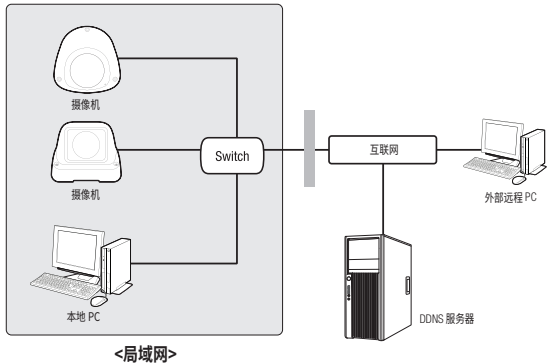
网络连接和设置

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

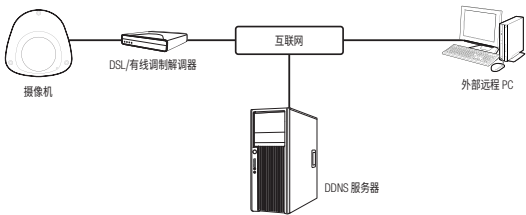
连接局域网内的本地 PC 和摄像机

- 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 19 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

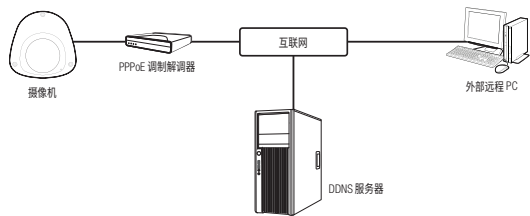


- 1. 直接将用户 PC 与网络摄像机连接。
- 2. 运行 IP Installer 并更改摄像机的 IP 地址，以便可以使用桌面上的 Web 浏览器连接至互联网。
- 3. 使用Web浏览器连接至 Web Viewer。
- 4. 移至 [设置] 页面。
- 5. 移至 [网络] - [DDNS] 并配置 DDNS 设置。
- 6. 移至 [Basic] - [IP & 端口]，并将网络类型设置为 [DHCP]。
- 7. 将摄像机与用户 PC 分开，并直接连接到调制解调器。
- 8. 重新启动摄像机。

- 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

直接将摄像机连接到 PPPoE 调制解调器

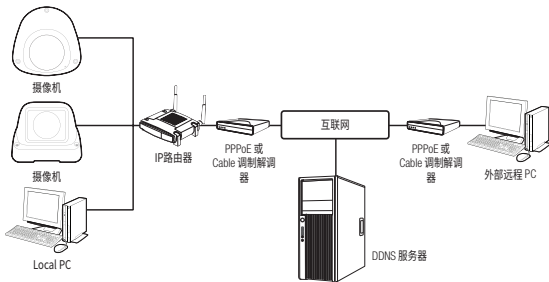


1. 直接将用户 PC 与网络摄像机连接。
2. 使用“Device Manager”将摄像机的IP地址更改为可通过用户计算机从Internet浏览器从访问的IP地址。
3. 使用Web浏览器连接至 Web Viewer。
4. 移至 [设置] 页面。
5. 移至 [网络] – [DDNS] 并配置 DDNS 设置。
6. 移动到 [Basic] – [IP & 端口] 设置页面，将“IP 类型”设置为 [PPPoE]，然后输入网络服务的 ID 和密码。
7. 将摄像机与用户PC分开，并直接连接到调制解调器。
8. 重新启动摄像机。

- 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 21 页)

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 21 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 555

- 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。

网络连接和设置

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

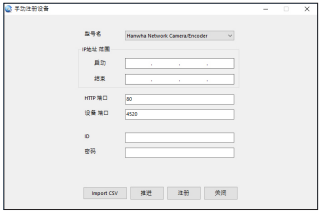
1. 在搜索列表中单击要更改IP设置的摄像机。
2. 在“Device Manager”主界面上单击<IP分配>。
3. 请选择<自动获取一个IP地址 (DHCP)>。
4. 请点击[适用]按钮。
5. 请在显示成功确认消息时点击[确定]按钮。



手动注册摄像机

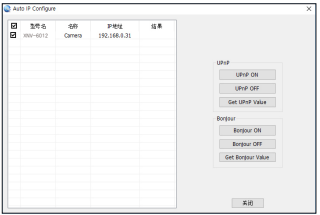
如果通过搜索功能找不到摄像机, 或者摄像机连接到外部网络, 则可以手动输入 IP 信息以远程查找摄像机并进行注册。

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。

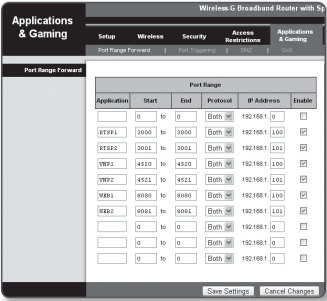


路由器端口设置

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。

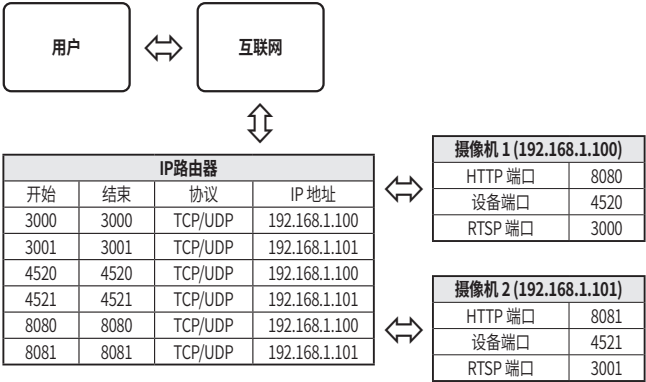


- 设置端口转发说明是CISCO IP路由器设置的示例。
- 设置可能因连接的IP路由器型号而异。
有关详细信息, 请参阅适用路由器的用户手册。

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。

网络连接和设置

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，您必须先先在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。

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。

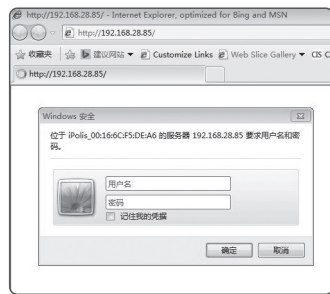
使用 URL

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。

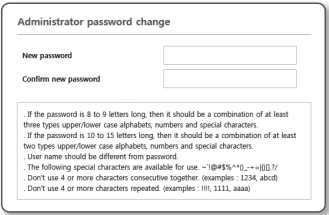
一旦您向 DDNS 服务器注册了基于动态 IP 的设备, 当尝试访问该设备时, 就可以轻松检查更改的 IP。

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。

web 查看器

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。

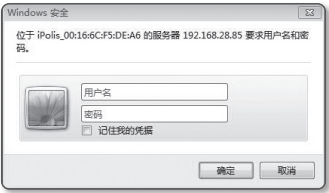


- 对于 8 到 9 位的新密码,必须至少使用下列 3 种类型:大写字母/小写字母、数字和特殊字符。对于 10 到 15 位的密码,必须至少使用上述两种类型。
 - 允许使用的特殊字符为:~`!@#\$%^&*()_+=|[]{}?/
- 为了获得较高的安全性,建议您不要重复使用相同的字符作为密码,也不要使用连续的键盘输入作为密码。
- 如果您丢失了密码,可按住[RESET]按钮初始化该产品。因此请使用记事簿写下或记住您的密码以防丢失。

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.264 (Chrome: 支持全屏分辨率 / Edge、Firefox、Safari: 全高清 30 fps 或更高) H.265 全高清 10fps 2Mbps 或更高
 - 无插件播放条件: MJPEG/H.264 全屏分辨率, H.265 高清或更低
- 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。

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 **[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。

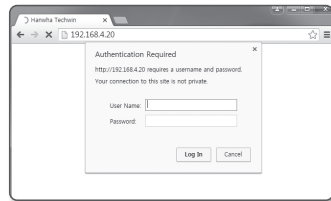


- 在您的 Internet 浏览器中, 如果在安装 webviewer 插件后移到安装屏幕, 请检查“工具 → 其他功能管理”菜单中的 webviewer_activexplugin_lib.control 是否“已启用”。如果未启用且一直有问题, 请选择“工具 → Internet 选项 → 常规”并删除所有搜索记录。
如仍有问题, 请在“工具 → Internet 选项 → 安全 → 受信任的站点”下注册摄像机的 IP 或域名。

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。

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。
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
即使配置了音频输入设置,也不会录音。	选中<Basic> - <视频配置文件>下的<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。
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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ethtool-4.2	GPL 2.0	
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mi-diag-2.11	GPL 2.0	
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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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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established by T-Engine Forum
on January 23, 2004
revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.5 of 10 December 2007

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iperf performance test

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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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