

WISeNeT

网络摄像机

用户手册

SNV-L6013R/SNV-L6014RM



网络摄像机 用户手册

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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. 本产品专门由所列出的标有“Class 2”的电源装置供电, 并且额定交流电压为 24 伏 (50/60 赫兹), 最小电流为 1.0 A; 或者额定直流电压为 12 伏, 最小电流为 1.0 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。



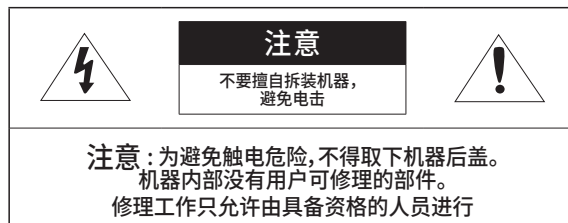
警告

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，由部件制作商提供并在三星内部验证后做成的。
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 Techwin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。

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：英特尔酷睿 2 双核 2.4 GHz 或更高（使用 1920x1080@30 fps）
 - Web 插件针对 SSE 4.1 指令集进行了优化。
- 分辨率：1280X1024 像素或更高（32 位颜色）
- RAM：2GB 或更大
- 支持的操作系统：Windows 7、8、10、MAC OS X 10.8、10.9、10.10、10.11
- 支持的浏览器：Microsoft Internet Explorer 11、Mozilla Firefox 43、Apple Safari 9 ※ 仅限 Mac OS X
 - 只在桌面模式下支持 Windows 8。
 - 既不支持测试版，也不支持开发者版，仅支持在公司官方网站发布的正式版本。
 - 为了实现 IPV6 连接，建议使用 Window 7 或更高版本的操作系统。
 - 对于 Mac OS X，只支持 Safari 浏览器。
- 显存：256MB 或更大

- 
- 如果显卡的驱动程序未正确安装或不是最新版本，则视频可能无法正确播放。
 - 对于至少涉及 2 个监视器的多监视系统，播放性能可能会下降，具体视系统而定。

建议的 MICRO SD/SDHC/SDXC 存储卡规格

- 建议容量：4GB ~ 32GB
- 对您的摄像头，我们建议您使用以下厂商制造的存储卡：
Micro SD/SDHC/SDXC 存储卡：Sandisk, Transcend
- 建议使用 Class 10 + UHS-1 或更高速度的规格存储卡。

NAS 建议规格

- 建议容量：50GB 以下
- 同步访问：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
Netgear 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。

- 
- 不支持制造商停止生产的型号。
 - 使用 Netgear 公司的 NAS 设备时，不要分配要使用的容量。
 - 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。)

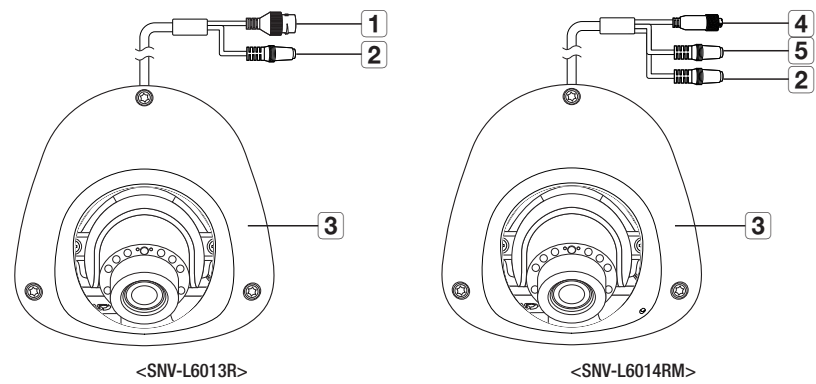
外观	项目名称	数量	说明	型号名称
	摄像机	1		SNV-L6013R
				SNV-L6014RM
	简介 (可选)	1		SNV-L6013R/ SNV-L6014RM
	保修卡 (可选)	1		SNV-L6013R/ SNV-L6014RM
	L 型扳手	1	用于卸下/固定圆顶盖	SNV-L6013R/ SNV-L6014RM
	M4 自攻螺钉	2	将摄像机安装到墙壁或天花板上时使用	SNV-L6013R/ SNV-L6014RM
	塑料固定器	2	用于固定螺钉，已插入孔中 (增强固定力量)	SNV-L6013R/ SNV-L6014RM
	模板	1	安装摄像机时使用	SNV-L6013R/ SNV-L6014RM
	安装支架	1	将摄像机安装到墙壁或 (单) 工盒时 使用	SNV-L6013R/ SNV-L6014RM

外观	项目名称	数量	说明	型号名称
	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	SNV-L6013R/ SNV-L6014RM
	RJ45 防水配件	1	用于确保 RJ45 连接器线缆的防水性能	SNV-L6013R

概述

简图

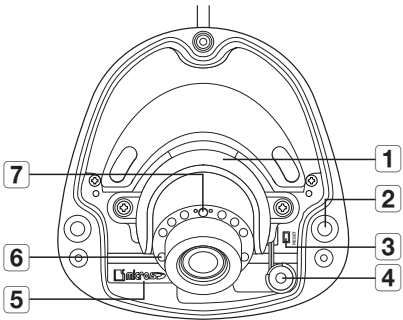
外观



项目	说明	
1 PoE 连接器	连接到网络，并通过以太网电缆供电。	
2 音频输入插孔	SNV-L6013R	用于连接麦克风。(黑色)
	SNV-L6014RM	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)	

 用擦镜布或蘸有乙醇的布块轻轻擦拭透镜去除表面脏污。

内部



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。 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。
4 麦克风插孔	在此处插入麦克风。 仅适用于 SNV-L6014RM 型号。
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。

安装与连接

安装

安装前注意事项

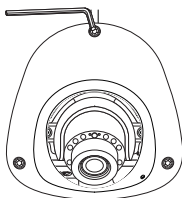
安装之前，请确保阅读下列说明：

- 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。
- 该摄像机符合 IP66 规范，防水产品，但如果未使用 M12 插头和电缆，则插孔将不能提供防水功能。(SNV-L6014RM) 安装该产品时，建议使用符合 M12 规范的外部电缆。

拆解

通过使用提供的 L 型扳手逆时针旋转松开 3 颗螺钉，并分开圆顶盖。

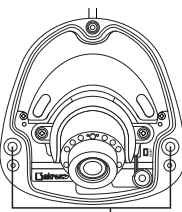
- 请注意，不需要完全松开螺钉。



将摄像机安装至天花板上

1. 选择要安装摄像机的位置。
2. 在您要安装设备的墙壁上打一个螺钉孔，然后将随附提供的墙用塑料胀管全部插到孔中。
3. 将内孔与已插入塑料胀管的孔对齐，并顺时针旋紧自攻螺钉，使其固定。

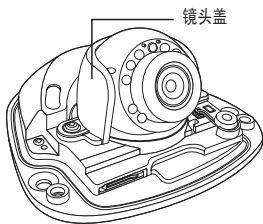
- 将产品安装至墙壁上时，要使用随附的安装支架。



固定孔

4. 逆时针旋转摄像机镜头盖两侧的螺钉即可将螺钉拧松。

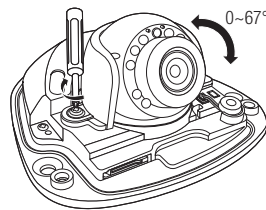
- 如未拧松螺钉即强行偏转镜头（盖）可能导致产品出现故障。



镜头盖

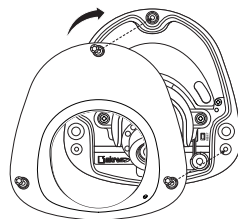
5. 请参阅“调整摄像机的监视方向”来调整镜头，使其面向所需的方向。
(第 10 页)

6. 调整好角度后，顺时针旋转螺钉，固定镜头角度。



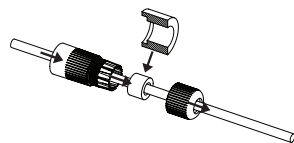
7. 关闭圆顶盖并用 L 型扳手顺时针转动。

- 如果护盖无法牢牢固定，则可能会发生防水问题。(IP66)

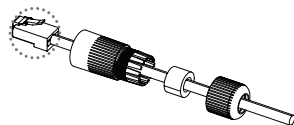


如何将 RJ45 防水电缆连接到 LAN 电缆 (SNV-L6013R)

1. 沿箭头方向插入。

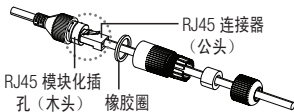


2. 将 LAN 连接器（插头）连接到电缆。



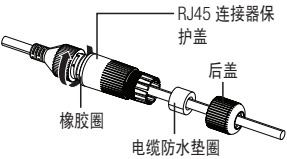
3. 将 RJ45 模块化插孔（插孔）连接到 RJ45 连接器（插头）。

- 请保留拆下的每个零部件。

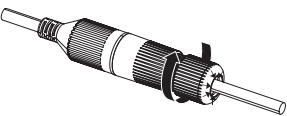


安装与连接

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。

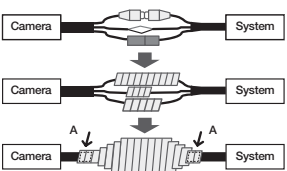


■ 您必须安装彻底，以将后盖向上旋转至 RJ45 连接器螺纹的末端。

室外安装 (SNV-L6013R)

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、音频输入插孔、LAN 和其他线缆。
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。



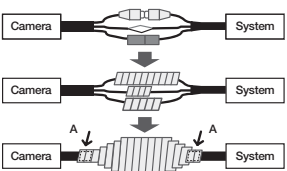
■ 如未对电缆套管进行适当的防水操作，它可能直接导致漏水。确保使用橡胶带保护电缆。

■ 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。

室外安装 (SNV-L6014RM)

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。

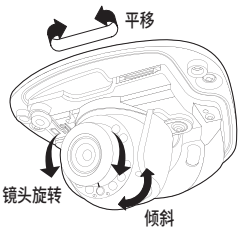
1. 连接电源、音频输入/输出、LAN 和其他线缆。
2. 用防水（丁基橡胶）带包裹住黑色电缆套管（区域 A）和电缆连接区域，确保一半以上的丁基橡胶带重叠。



■ 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。

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。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

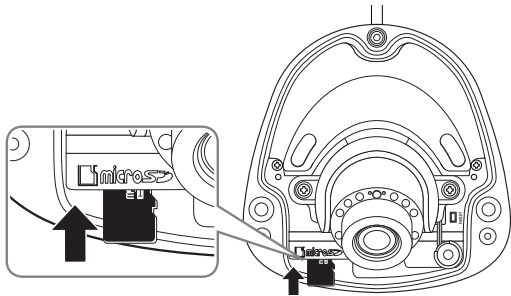
1. 安装摄像机之后，根据监视方向调整平移角度。
2. 设置为水平角度，使图像不会颠倒。
3. 调整倾斜角度，以便摄像机面朝监视的对象。

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。

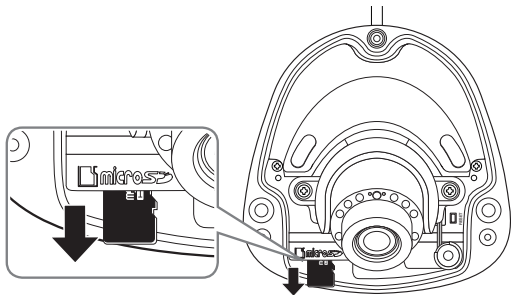
插入 Micro SD 存储卡

请按图中所示箭头方向推 Micro SD 存储卡。



取出 Micro SD 存储卡

轻轻地按压存储卡露在外面的一端，依图示的方式从插槽中弹出存储卡。



- ❗ 太用力按 Micro SD 存储卡可能会导致存储卡从卡槽中松脱后猛然弹出。
- 移除微型 SD 存储卡之前，关闭摄像机或转到 <存储器>，关闭设备，然后按 [应用 (结束)] 按钮。(第 38 页)
- 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。

存储卡信息 (未包含)

什么是存储卡？

存储卡是一种外部数据储存设备，它的开发为使用数字设备进行录制和共享音频、视频和文本数据提供了崭新的方式。

选择一款适合您的存储卡

本摄像机支持 Micro SD/SDHC/SDXC 存储卡。根据存储卡的型号和制作材料不同，您可能会遇到兼容性的问题。

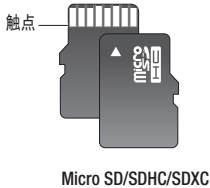
对您的摄像头，我们建议您使用以下厂商制造的存储卡：
Micro SD/SDHC/SDXC 存储卡：Sandisk, Transcend

建立将 4GB ~ 32GB 的存储卡与本摄像机配合使用。

回放性能可能受存储卡速度的影响，因此，请使用高速存储卡。

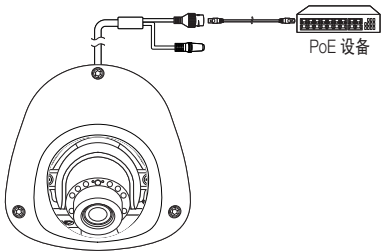
建议使用 Class 10 + UHS-1 或更高速度的规格存储卡。

记忆卡组件

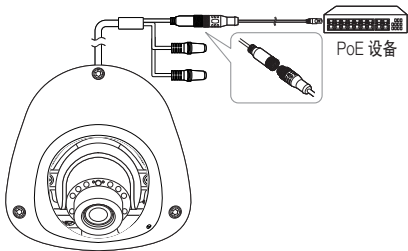


安装与连接

与其他设备连接



<SNV-L6013R>



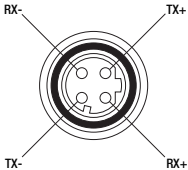
<SNV-L6014RM>

连接插头电缆 (SNV-L6014RM)

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。

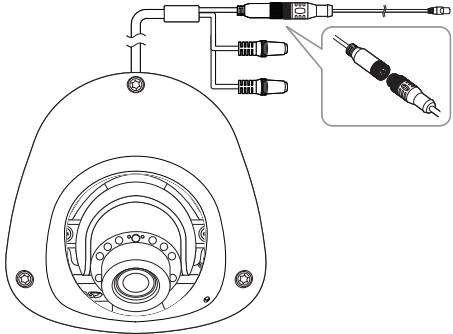
- 将该摄像机连接到屏蔽式网络电缆（STP）。
- 请使用符合 M12 规范的 4 针 D 型公插头外部电缆。
- 检查 PoE 设备是否正确接地。



使用 M12-RJ45 转换线缆进行连接 (SNV-L6014RM)

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 (SNV-L6013R)

将摄像机连接至一个 PoE 设备。

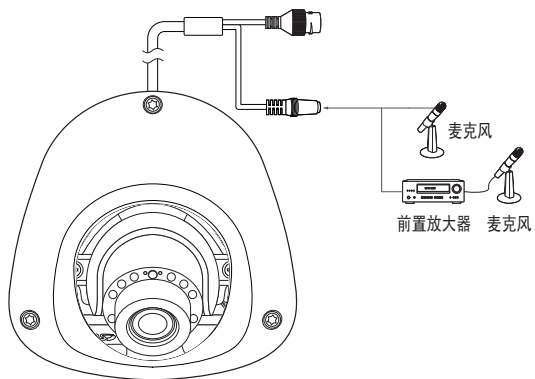
- 连接到支持 PoE（以太网供电）的路由器 PoE 插头。
- 使用符合 IEEE802.3af 协议的 PoE（以太网供电）。

供电和联网 (SNV-L6014RM)

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。

连接音频输入 (SNV-L6013R)



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. 检查音频输入的规格。

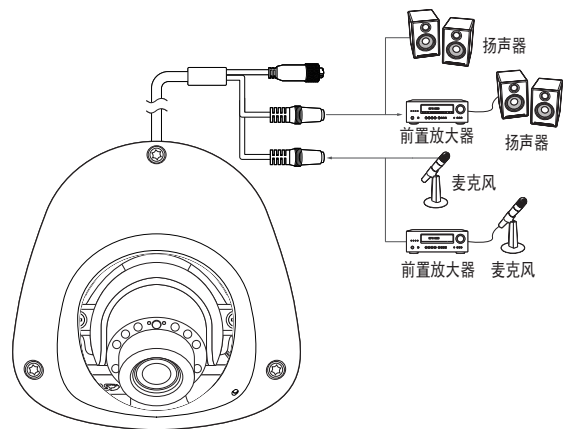
• 音频编解码器

- 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)

• 全双工音频

- 音频输入：单信号线路输入（最大2.4 Vpp）

连接音频输入/输出 (SNV-L6014RM)



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。

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)
- 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：单信号线路输入（最大2.4 Vpp）
- 音频输出：单信号线路输出（最大2.4 Vpp）
- 线路输出阻抗：8Ω

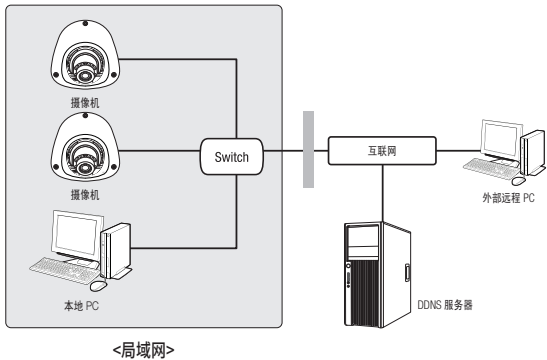
网络连接和设置

可根据您的网络配置来设置网络的设定。

将摄像头与局域网直接连接

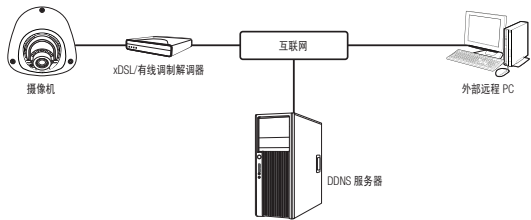
连接局域网内的本地 PC 和摄像头

- 1. 启动本地 PC 上的网络浏览器。
- 2. 在浏览器的地址栏中输入 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头。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。
- 根据出厂默认值，会自动从 DHCP 服务器分配 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 16 页）

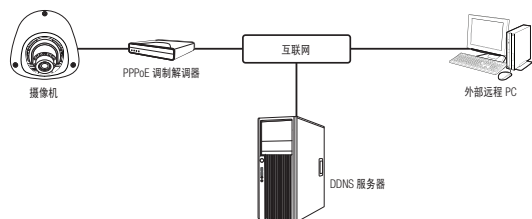
将摄像机直接连接至基于 DHCP 的 XDSL/有线电视网调制解调器



- 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. 使用互联网浏览器连接至 Web Viewer。
- 4. 移至 [Setup] 页面。
- 5. 移至 [Network] – [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（已从您的 PC 上拔下）直接连接至调制解调器。
- 8. 重新启动摄像机。

- 有关配置 DDNS 设置，请参阅“DDNS”。（第 34 页）
- 有关注册 DDNS 设置，请参阅“注册 DDNS”。（第 35 页）
- 请参阅“IP & 端口”部分，了解如何设置IP。（第 30 页）

直接将摄像机连接到 PPPoE 调制解调器



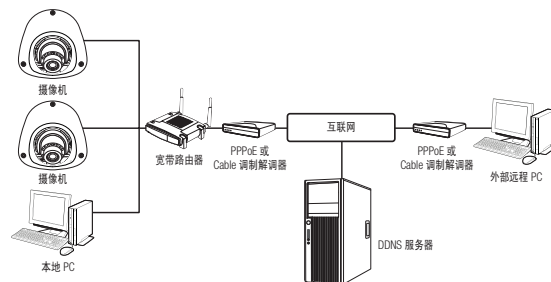
1. 直接将用户 PC 与网络摄像机连接。
2. 运行 IP Installer 并更改摄像机的 IP 地址，以便可以使用桌面上的 Web 浏览器连接至互联网。
3. 使用互联网浏览器连接至 Web Viewer。
4. 移至 [Setup] 页面。
5. 移至 [Network] - [DDNS] 并配置 DDNS 设置。
6. 移动到 [Basic] - [IP & 端口] 设置页面，将“IP 类型”设置为 [PPPoE]，然后输入网络服务的 ID 和密码。
7. 将摄像机（已从您的 PC 上拔下）直接连接至调制解调器。
8. 重新启动摄像机。



- 有关配置 DDNS 设置，请参阅“DDNS”。（第 34 页）
- 有关注册 DDNS 设置，请参阅“注册 DDNS”。（第 35 页）
- 请参阅“IP & 端口”部分，了解如何设置 IP。（第 30 页）

将摄像头与使用 PPPoE/CABLE 调制解调器的宽带路由器连接

适用于小型网络环境，如家庭、SOHO 以及普通的商店。



配置连接到宽带路由器

在配置连接到宽带路由器的本地 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) 若宽带路由器的地址 (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) 若宽带路由器的地址 (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

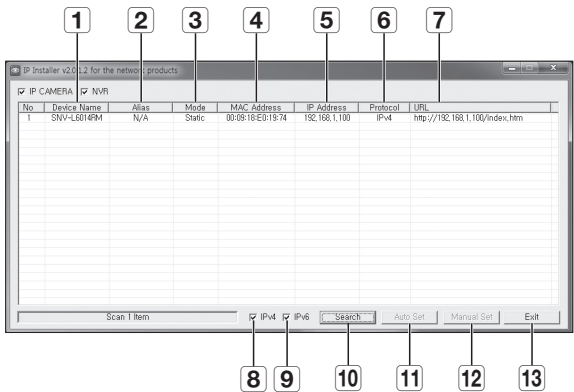
例3) 若宽带路由器的地址 (LAN IP) 为 192.168.xxx.1
IP 地址：192.168.xxx.100
子网掩码：255.255.255.0
默认网关：192.168.xxx.1



- 关于宽带路由器的地址，请参见产品文档。
- 如需宽带路由器的正向端口的更多信息，请参阅“路由器端口设置”。（第 18 页）

网络连接和设置

在 IP INSTALLER 中使用的按钮



项目	说明
1 Device Name	已连接摄像机的型号名称。 单击此列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	对当前网络连接状态显示 <Static>、<Dynamic> 和 <PPPoE>。
4 MAC(Ethernet) Address	已连接摄像机的以太网地址。 单击此列可以按以太网地址列表进行排序。 但是，如果在搜索时单击将会停止搜索。
5 IP Address	IP 地址。 单击此列可以按 IP 地址列表进行排序。 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	DDNS URL 地址可以从外部互联网访问。 但是，如果 DDNS 注册失败，此按钮将被摄像机的 <IP Address> 代替。
8 IPv4	扫描使用 IPv4 设置的摄像机。

项目	说明
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 Techwin 网站下载最新版本。

静态 IP 设置

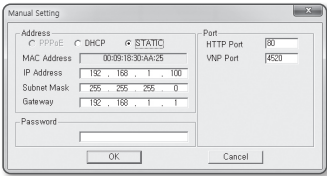
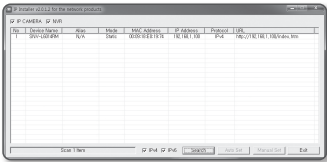
手动网络设置

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> 显示在预设值中。
- 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。



网络连接和设置

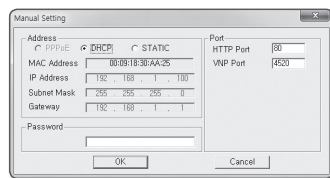
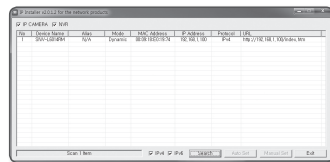
动态 IP 设置

动态 IP 环境设置

- 动态 IP 环境示例
 - 如果连接了摄像机的宽带路由器由 DHCP 服务器分配了 IP 地址
 - 如果使用 DHCP 协议将摄像机直接连接至调制解调器
 - 如果 IP 由内部 DHCP 服务器通过 LAN 分配

检查动态 IP

- 在用户的本地计算机上运行 IP Installer。
分配了 <Dynamic IP> 地址的摄像机将会显示在列表中。
- 从搜索结果中选择摄像机。
- 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>。

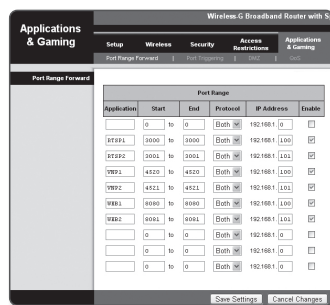


路由器端口设置

如果您安装了连接摄像机的宽带路由器，就必须设置在宽带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

- 从宽带路由器的 Setup 菜单中，选择 <Applications & Gaming> - <Port Range Forward>。
对于第三方宽带路由器端口范围前移设置，请参阅该宽带路由器的用户手册。
- 对连接到宽带路由器的每个摄像机选择 <TCP> 和 <UDP Port>。
宽带路由器的每个端口号都应该与在摄像机的 Web Viewer 菜单的 <Setup> - <Basic> - <IP & 端口> 中指定的端口号相符。



- 完成后，单击 [Save Settings]。
将保存设置。

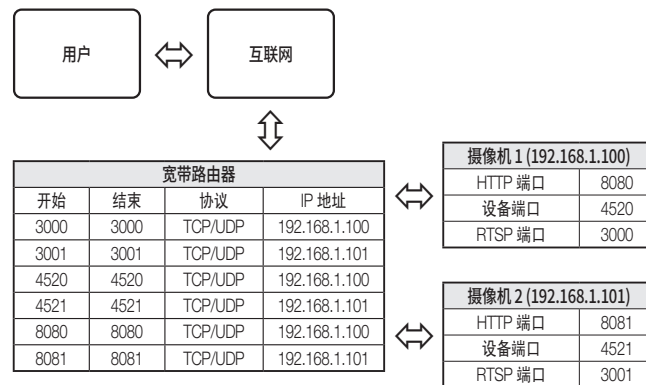


- 以上样本说明基于 CISCO 的宽带路由器。
- 设置可能因连接的宽带路由器型号而异。
有关详细信息，请参阅适用路由器的用户手册。

设置多个网络摄像机的端口范围前移

- 您可通过配置网页在宽带路由器设备上设置 正向端口的规则。
- 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：

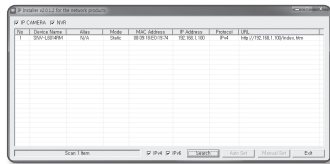


- 如果路由器支持 UPnP（通用即插即用）功能，无需额外路由器设置即可实现端口转发。
在连接网络摄像机后，在“Setup → Network → DDNS”菜单中将 <Wisenet DDNS> 的 <Quick connect> 设置为 <开>。

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。
互联网浏览器将启动，并连接到摄像机。

 ■ 您也可以在互联网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

由于不允许在不属于宽带路由器网络群集的远程计算机上使用 IP Installer，所以用户需通过摄像机的 DDNS URL 在宽带路由器网络内访问摄像机。

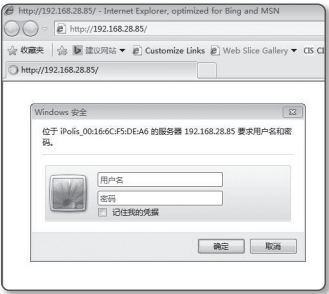
1. 您应该设置宽带路由器端口范围前移，然后才能访问宽带路由器网络中的摄像机。
2. 从远程 PC 启动互联网浏览器，并在地址栏中键入摄像机的 DDNS URL 地址，或宽带路由器的 IP 地址。
例) <http://ddns.hanwha-security.com/ID>

 ■ 有关注册 DDNS 设置，请参阅“注册 DDNS”。（第 35 页）

连接到摄像机

通常,您应该

1. 启动互联网浏览器。
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. 启动互联网浏览器。
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. 启动互联网浏览器。
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 LAN 的环境中禁用网络连接。

通过 UPnP 连接

1. 运行支持 UPnP 协议的客户端或操作系统。
2. 单击要搜索的摄像机名称。
在 Windows 操作系统中, 从网络菜单中单击要搜索的摄像机名称。
- 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. 单击要搜索的摄像机名称。
在 Mac 操作系统中, 从 Safari 的 Bonjour 选项卡单击要搜索的摄像机名称。
- 登录窗口即显示出来。

检查 DDNS 地址

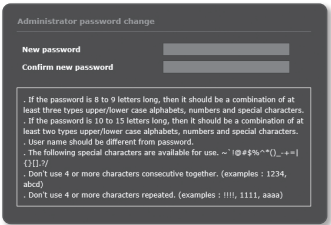
如果摄像机直接连接到 DHCP 有线电视网调制解调器、xDSL 调制解调器或 PPPoE 调制解调器, 每当您尝试连接到 ISP (互联网服务提供商) 服务器时, 您的网络 IP 地址都会更改。
在这种情况下, 将不会通知您 IP 地址已被 DDNS 更改。

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 <Network> - <DDNS> 设置为 <Wisenet DDNS>, 同时提供用于 DDNS 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。



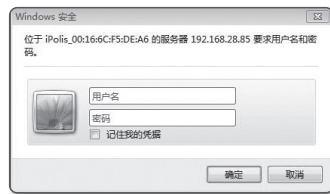
登录

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。

! ■ 访问摄像机 Web 查看器时, 要特别注意是否安全, 检查一下图像数据是否加密。

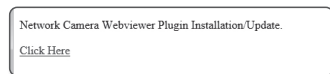
- ☑ ■ 如果您在完成输入之后选中“记住我的密码”选项, 则从下次起将自动登录, 而不会提示输入登录信息。
- 如果屏幕大小是 100%, 则您可以体验最佳视频质量。降低该比率可能会切掉边框上的图像。



安装 WEBVIEWER 插件

首次连接相机时, 将显示动态画面。
如果未安装插件, 这些功能的使用可能会受到限制。

1. 如果您在允许安装插件的浏览器中选择受限制的功能, 系统将提示您在“安装”页面上安装插件, 点击“安装”页面上的 [Click Here] 后将开始安装。



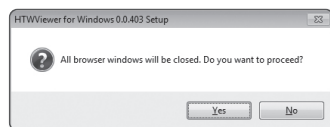
- ! ■ 如果 Internet Explorer 浏览器中的插件安装文件下载状态停留在 99%, 请在“工具 → SmartScreen 筛选器”中选择“释放 SmartScreen 筛选器”。

2. 在消息窗口中单击 [Run]。

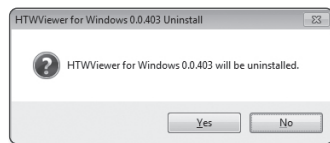


3. 当通知窗口指示将关闭所有浏览器窗口时, 单击 [Yes]。

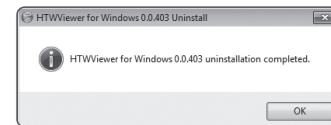
- ☑ ■ 如果尚未安装任何 Web 浏览器插件, 将跳过步骤 4 和 5。



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。

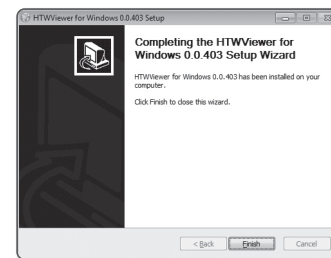


6. 单击 [Install], 开始安装 Web 浏览器插件。



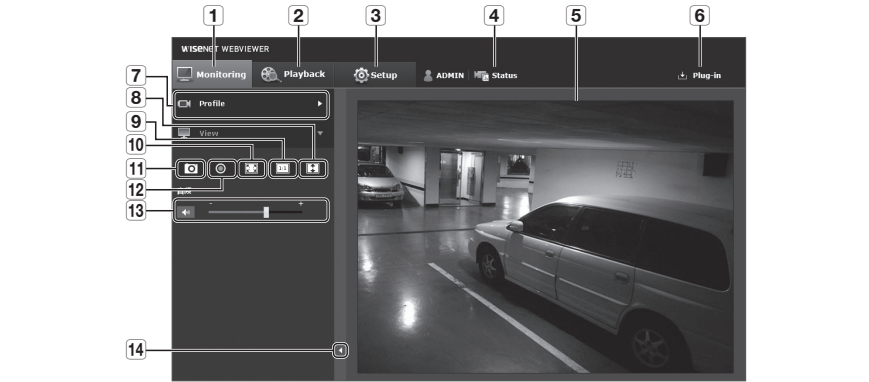
7. 单击 [Finish]. Web 浏览器插件即完成安装。

- ! ■ 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_activeplugin_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。



web 查看器

使用现场屏幕



项目	说明
1 正在监视	移至监视屏幕。
2 播放	移动到您可以搜索 Micro SD 存储卡或 NAS 中保存的视频录制的屏幕。
3 设置	移至设置屏幕。
4 配置文件访问信息	您可以读取配置文件信息。
5 查看器屏幕	显示屏幕上的现场视频。 在 Viewer 屏幕中，可以使用鼠标滚轮来激活数码缩放。
6 安装 Web 查看器插件	安装 Web 查看器插件后，您可以播放直播视频或录制的视频。此功能仅适用于允许安装插件的浏览器 (IE/Firefox/Safari)。
7 配置文件类型	可以在 <Basic> 设置菜单下的 <视频配置文件> 中选择配置文件类型。 - 连接 Web Viewer 后，将会显示当前使用的配置文件的信息。 - 如果在监视页面中播放视频，以下情况可能会发生残影。 - 由于配置文件变化，分辨率发生变化。 - 配置文件变化时，由于网络延迟，传入数据变慢。 - Web 浏览器窗口大小和位置发送变化。

项目	说明
8 屏幕优化	来自摄像机的视频尺寸将放大为与 Web 浏览器尺寸一样大。
9 固定分辨率	不管在摄像机中配置的分辨率设置如何，系统都会将分辨率设置为 640x480。再按一次它会切换回默认分辨率。
10 全屏	将当前视频切换至显示器的最大大小。
11 捕捉	将快照保存为 .jpg 格式的图像文件。
12 手动录制	用户可自行将视频存储至 PC。
13 音频/麦克风控制	启用音频和麦克风音量控制。 - 只能控制音频音量。 - 麦克风仅适用于 SNV-L6014RM。
14 隐藏上下文菜单	左上角的上下文菜单将会消失，只留下菜单图标。

捕捉快照

- 在场景上单击 [捕捉 ()] 进行捕捉。
- 保存捕捉到的视频时，会显示通知信息。

使用 Internet Explorer 时，捕捉到的视频将保存在“我的电脑/我的文档/图片”中。对于 Mac OS，它保存在“~/Pictures”或“/Users/{用户帐户}/Pictures/”中。IE、Firefox 和 Chrome 版插件安装文件的基本路径为“C:\Users\{Users}\Downloads”，Safari 版插件安装文件则直接保存在“Downloads”文件夹中。

 - 如果您在 Windows 7 计算机上使用 IE8 时发生视频中断，请从“工具 - Internet 选项 - 安全”中取消选择“启用保护模式”。
 - 如果 Windows 7 或 8 中的 IE 浏览器没有捕捉该屏幕，请使用管理员权限运行 IE 浏览器。

如何手动录制视频

- 按[手动录制 ()]。
 - 要结束录制，再次按[手动录制 ()]。
- 可以手动将录制的视频以 avi 文件格式存储至用户 PC 中。指定路径并保存您的视频。

适合全屏

- 1. 单击 [全屏 ()] 按钮。
- 2. 这将使查看器适合全屏。
- 3. 要退出全屏模式，请按键盘上的 [Esc]。

 对于 Internet Explorer 和 Google Chrome 浏览器，您可以切换至全屏。

使用音频

- 1. 单击 [音频 ()] 图标以激活音频通信。
- 2. 使用 [] 滑块控制音量。

 如果设备运行中插入和拔出音频插头时没有声音，单击 [音频 ()] 图标以将其再次启用。

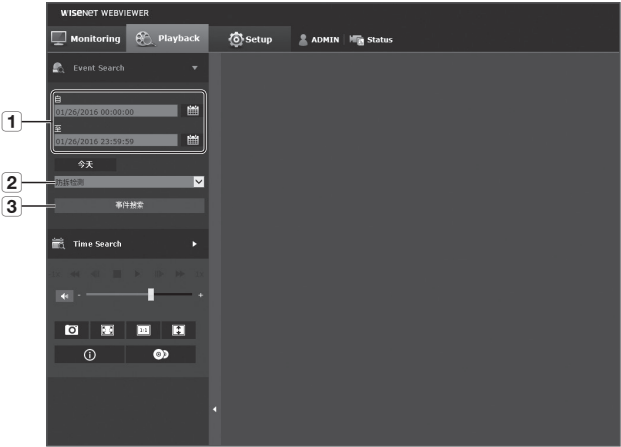
使用麦克风 (SNV-L6014RM)

单击 [麦克风 ()] 图标以激活麦克风。

播放录制的视频

 在可以播放视频之前，必须配置录制设置。有关录制设置的详细信息，请参阅“存储器”。(第 38 页)

事件搜索屏幕的名称及其功能



项目	说明
1 搜索范围设置	为 Micro SD 存储卡或 NAS 中保存的数据设置搜索日期和时间范围。
2 搜索事件设置	设置想要搜索的事件类型。
3 事件搜索	运行事件搜索。

在按事件搜索后播放内容

- 1. 单击 [Playback (🎬)] 按钮。
- 2. 指定搜索的开始和结束时间。
- 3. 选择指定时间段内搜索的事件类型。
- 4. 单击 [事件搜索] 按钮。
搜索结果将显示在列表中。
- 5. 如果在搜索时间段内录制了超过 800 个事件，则搜索将限制为录制第 800 个事件的日期。
例如，如果搜索时间段在一个月的第 10 天和第 15 天之间，并且在第 10 天到第 11 天录制了超过 800 个事件，则搜索将限制为最多第 11 天（共 800 个事件），将找不到之后（从第 12 天开始）的事件。
- 5. 在搜索列表中选择要播放的数据项目。
- 6. 单击 [播放 (🎬)] 按钮。
- 7. 要停止播放视频，请单击 [停止 (⏏)]。
- 8. 要返回到搜索屏幕，请单击 [退出 (🔍)]。



时间搜索屏幕的名称及其功能



项目	说明
1 时间条	通过移动时间条播放特定时间段的视频。
2 搜索日期设置	使用日历设置搜索日期。 ■ 如果这一天有数据保存到 Micro SD 存储卡或 NAS 中，则会在日历上将这一天标记为一个方框。
3 扬声器	若要收听录制视频中的语音信号（如果有），则需要在播放时激活语音信号图标。
4 屏幕优化	转换摄像机图像，使它适合 Web 浏览器窗口。
5 固定分辨率	不管在摄像机中配置的分辨率设置如何，系统都会将分辨率设置为 800x600。再按一次它会切换回默认分辨率。
6 捕捉	当前图像保存为 .jpg 图像文件。
7 全屏	转换当前图像，使它覆盖显示器的最大尺寸。
8 视频信息	屏幕上将显示回放视频的时间数据。
9 备份	设置对保存在 Micro SD 内存卡或 NAS 中的视频创建备份。 ■ 使用 Micro SD 存储卡或 NAS 时，可设置的最长时间分别为 5 分钟或 30 分钟。

在按时间搜索后播放

1. 单击 [Time Search (🔍)]。
2. 在日历中单击所需日期。
将会播放指定日期上的视频。
3. 如果视频播放已停止，请选择时间，然后单击 [播放 (▶)]。
将会播放所选日期上的视频。
4. 播放视频时，将会显示当前视频的录制时间。
5. 向前或向后搜索视频，并控制播放速度。
 - 如何控制播放间隔
 - ▶▶：选择该按钮可前移 1 帧。
 - ◀◀：选择该按钮可后移 1 秒。
 - 控制播放速度
 - 如果选择 ▶▶，按钮将切换为 x1, x2, x4, x8，并且播放速度相应提高。
 - 如果选择 ◀◀，播放速度降至 -x1, -x2, -x4, -x8，并且播放速度逐渐放慢。随后，快速播放速度恢复为正常速度，反向播放速度增加。
 - 控制播放方向
 - 如果您看到显示 ▶▶ 按钮和播放速度，将会向前播放视频；而如果您看到显示 ◀◀ 按钮和播放速度，将会向后播放视频。
 - 如何设置时间条
 - 如果按 [⏮] 按钮，则可以查看时间条部分的详细信息。
 - 如果按 [⏭] 按钮，则可以查看更广的时间范围并且可以更轻松地选择所需的时间。
6. 先将 [时间滑块 (🎛)] 移至视频的所需时间点再播放。
包含标准录制文件的时间将以蓝色突出显示；包含事件录制内容的时间将以红色突出显示。



播放备份视频

备份的视频数据保存为 .avi 格式。建议使用兼容该格式的 Gom Player、VLC Player 或 Window Media Player 媒体播放器。

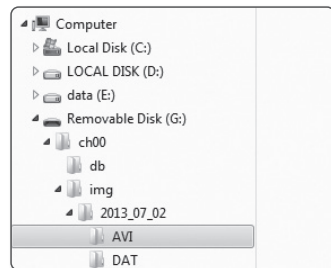


- 如果使用 Windows Media Player，请在使用前从 www.windows7codecs.com 下载最新的编解码器，然后安装。

播放 AVI 文件

(1) Micro SD 存储卡

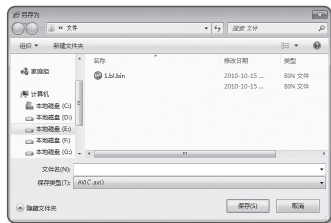
1. 从摄像机取出 Micro SD 存储卡。
2. 将 Micro SD 存储卡插入 PC。
3. 使用媒体播放器播放 “\ch00\img\YYYY_mm_DD\AVI” 目录中的 AVI 文件。
 - 文件名以 “001_YYYYMMDD_HHMMSS.avi” 的格式开始，其中文件编号逐一递增。
YYYYMMDD_HHMMSS 表示数据保存的开始时间。
 - “001_YYYYMMDD_HHMMSS.smi” 文件是一个字幕文件，如果它与关联 AVI 文件位于相同目录，就可以查看它。
 - 每个 AVI 文件的最大录制时间是 5 分钟。
 - 如果受损，Micro SD 存储卡中的数据将无法在 Web Viewer 的 [Playback] 中播放。



Name	Date modified	Type	Size
001_20130702_180708	8/15/2013 10:11 AM	AVI File	405,298 KB
001_20130702_180708.smi	8/15/2013 10:11 AM	Sub File	133 KB
001_20130702_182759	8/15/2013 10:11 AM	AVI File	371,384 KB
001_20130702_182759.smi	8/15/2013 10:11 AM	Sub File	162 KB

备份搜索到的视频

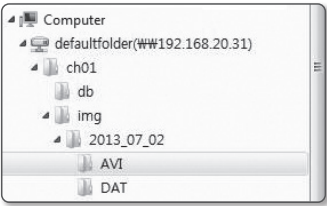
1. 在播放期间，在场景上单击 [📁] 进行备份。
备份开始和结束时间的计划窗口将会出现。
2. 单击 [📁] 按钮。
另存为窗口将会出现。
3. 确认保存路径，然后单击 [保存(S)] 按钮。
备份的视频数据将备份到指定的路径中。



(2) NAS（网络连接存储器）

1. 在 Windows 浏览器中，使用 \\<ip address>\ 来访问。
ex)\\192.168.20.31\defaultfolder\ch01\img\2013_07_02\AVI
2. 转到 <Computer> → <Network drive connection> → 输入 1。
3. 已连接到 NAS。
该目录结构与 Micro SD 存储卡使用的目录结构相同。

- 文件名以“001_YYYYMMDD_HHMMSS.avi”的格式开始，其中文件编号逐一递增。
YYYYMMDD_HHMMSS 表示数据保存的开始时间。
- “001_YYYYMMDD_HHMMSS.smi”文件是一个字幕文件，如果它与关联 AVI 文件位于相同目录，就可以查看它。
- 每个 AVI 文件的最大录制时间是 30 分钟。
- 如果自行更改或损坏所保存数据，它将无法正常播放或保存。



File name	Date modified	Type	Size
[R] 001_20130702_200720	8/13/2013 10:23 AM	AVI File	405,298 KB
[L] 001_20130702_200720.smi	8/13/2013 10:23 AM	SMI File	133 KB
[R] 001_20130702_202759	8/13/2013 10:23 AM	AVI File	371,394 KB
[L] 001_20130702_202759.smi	8/13/2013 10:23 AM	SMI File	102 KB

设置屏幕

设置

在网络中,您可以设置关于摄像机、视频和音频、网络事件和系统的基本信息。

1. 在现场屏幕中,单击 [Setup ()]。
2. 设置屏幕将会出现。

! 预览视频的设置页面要求在PC上安装web查看器插件。
如果尚未正确安装,则安装页面将自动出现。

基础设置

视频配置文件

1. 从设置菜单,选择 <Basic ()> 选项卡。
2. 单击 <视频配置文件>。
3. 设置 <视频配置文件连接策略>。
 - 在更改配置文件设置时保持连接:即使在活动配置文件的设置发生更改的情况下,输出也使用相同的设置。如果未选中,则更改现有连接使用的配置文件会重设此类连接。
4. 选择每个配置文件属性。
如需更多信息,请参阅“添加/更改视频配置文件”。(第 28 页)
5. 单击每个项目的输入框,并输入/选择所需的值。
 - 上下文菜单可能因所选的编解码器类型而异。
 - 默认配置文件:如果在使用 Web Viewer 时未选择配置文件,则会应用默认视频配置文件。
 - 电子邮件/FTP配置文件:将传送到指定的电子邮件或 FTP 站点的视频配置文件。
 - 只能将 MJPEG 编解码器设置为电子邮件/FTP 配置文件。
 - 录制配置文件:这是应用于视频录制的配置文件。
 - 音频输入:设置是否使用音频进行视频录制。



6. 根据您的情况,设置 ATC (自动传输控制) 模式。

- ATC 模式:它可以根据网络带宽的变化调整视频属性,以控制比特率。
根据 ATC 模式调整比特率。
 - 控制帧速率:如果网络带宽下降,则降低帧速率。
 - 控制压缩:如果网络带宽下降,则控制压缩率。压缩调整可能会导致图像质量下降。
 - 事件 (MD):当选择移动探测 (MD) 事件时,可使用此功能。如某个事件发生,系统将对帧率加以控制。如果未检测到任何运动,系统将以最小帧率输出信号,由此减少带宽的使用。
- 如果 <比特率控制> 设置为 <CBR>,则根据 ATC 模式,按如下所示固定编码优先级:



比特率控制/ATC 模式	控制帧速率	控制压缩	事件 (MD)
CBR	帧速率	压缩	帧速率

- ATC 灵敏度:根据网络带宽的变化影响传输速率。如果带宽为 <非常高>,传输速率将调整为最高,如果带宽为 <非常低>,则调整为最慢。
- ATC 限制:如果调整帧速率的质量,此属性将更改为针对上一设置值 (100%) 的应用值 (%)。请注意,如果您将此属性值降低太多,屏幕上可能会闪烁。因此,建议在阈值范围内调整该值。

- ! 建议您仅对支持 ATC 的摄像机应用 ATC 控制。
- 在网络带宽变化较大的网络环境中,将 ATC 灵敏度设置为 <非常低>。
 - 如果网络连接不稳定,屏幕可能会闪烁。

7. 完成后,请单击 [应用 ()]。

设置屏幕

添加/更改视频配置文件

根据录制条件，可以添加或修改配置文件设置来适应不同的配置文件。

- 1. 选择 <视频配置文件> 选项之一。
- 2. 提供名称并选择编解码器。
- 3. 指定将应用编解码器的条件。
- 4. 指定所选编解码器的详细信息，包括分辨率和帧率。
单击 <高级> 以显示上下文。
 - 分辨率：设置 H.264 和 MJPEG 文件的视频大小。
 - 帧率：设置每秒的最大视频帧数。



“摄像机设置”中的 <传感器> 模式设置会改变最大可配置帧率。

传感器	25 fps	30 fps
帧率	1~25 fps	1~30 fps

- 最大比特率：当比特率控制设置为 VBR 时设置视频的最大比特率。
 由于比特率可以根据清晰度、帧频和屏幕复杂性进行有限的调整，所以实际比特率可能比最大比特率要大。所以在设定值时必须考虑使用环境。
- 目标比特率：当比特率控制设置为 CBR 时设置目标比特率。
- 比特率控制：您可从恒定比特率和可变比特率中选择一种方式进行压缩。固定比特率意味着改变视频质量或帧速率时网络传输的比特率是固定的，可变比特率意味着改变比特率时优先考虑视频质量。
 为比特控制设置固定比特率之后，如果选择视频质量优先模式，则为了保证对于给定的比特率获得最佳的视频质量，实际传输的帧速率可能会与帧速率设置有所不同（取决于屏幕的复杂程度）。
- 编码优先权：可以将视频传输的优先级设置为帧速率或压缩。
- 视频组长度：当 H.264 编解码器被选择时指定一个视频序列中两个连续 I 帧之间的距离（按照多个帧）。（一个 I 帧 + 0）。
- 配置文件：可以选择 H.264 靠模方法。
- 熵编码：减少可能因编码引起的压缩损失。

- 多播 (SVNP)：指定使用 SVNP 协议。
 - IP 地址：输入可用于连接至 IPv4 网络的 IPv4 地址。
 - 端口：指定视频通信端口。
 - TTL：为 SVNP 数据包设置 TTL。
- 多播 (RTP)：指定 RTP 协议的使用。
 - IP 地址：输入可用于连接至 IPv4 网络的 IPv4 地址。
 - 端口：指定视频通信端口。
 - TTL：可为 RTP 数据包设置 TTL。



如果您将多播地址设置为 224.0.0.0~224.0.0.255，则多播不能在所有环境中都正常工作。鉴于这种情况，我们建议您更改多播地址。

什么是视频组长度？

视频组（视频对象平面组）是用于 H.264 压缩的视频帧，表示从初始图像帧（关键帧）到下一个图像帧的帧集合。视频组由 2 类帧组成：I 帧和 P 帧。

I 帧是压缩的基本帧，也称为关键帧，包含一幅完整图像的数据。
P 帧仅包含与先前的 I 帧相比发生了变化的数据。

对于 H.264 编解码器，您可以决定视频组长度。
如果您使用 H.264 编解码器设置录制配置文件，则 GOV 长度将为帧率/2。

用户

1. 从设置菜单，选择 <Basic ()> 选项卡。

2. 单击 <用户>。

3. 提供必要的用户信息。

- 管理员密码更改：更改管理员的密码。



- 出于安全考虑的原因，建议您的密码使用数字、大小写字母以及特殊字符的组合。

- 建议每三个月更改密码一次。

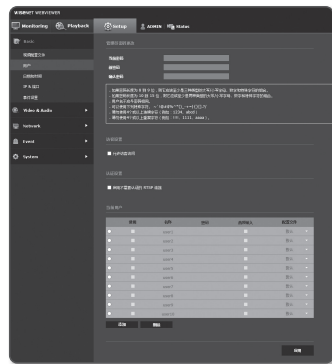
- 密码长度和限制如下所示。

- 8 到 9 位字符：至少是大写、小写、数字和特殊字符中 3 种类型的组合。
- 至少两种类型的大写字母、小写字母、数字和特殊字符的组合：10 到 15 个字符。
- 密码应与 ID 不同。
- 不得重复使用同一字母、特殊字符超过 4 次。
- 不得使用 4 个或 4 个以上连续的字符。（例如：1234、abcd）
- 不得重复使用字符 4 次或 4 次以上。（例如：!!!!、1111、aaaa）
- 允许使用的特殊字符为：~!@#%&^*()_+=|[]{}?/
- 进行出厂设置之后，会初始化管理员和用户密码。您需要重置密码。
- 在首次或者初始化后访问摄像机网页时，您将转到管理员密码设置菜单。
- 在此菜单中，您需要先使用新密码再次登录，然后再使用摄像机网页菜单。
- 如果现有密码不匹配，则更改管理员密码时，无法更改该密码。
- 在更改密码后，如果有摄像机连接到 CMS 或 NVR 客户端，则需要使用新更改的密码重新注册。如果仍使用相同的密码连接摄像机，则帐户可能被锁定，因为客户端使用的是以前的密码。
- 如果您尝试使用注册的帐户登录，5 次或更多次连续密码验证失败，则帐户可能会被锁定三十秒钟。
- 在更改密码时，如果从 PC 发出多个活动状态连接，则浏览器可能功能不正常。在此情况下，请重新连接到服务器。

- 访客设置：如果选择了 <允许访客访问>，则访客帐户可以访问 Web Viewer 屏幕，但是只能查看 Live Viewer 屏幕。

- 访客帐户的 ID/密码是 <guest/guest>，无法更改。

- 认证设置：如果您选择了 <启用不需要认证的 RTSP 连接>，则您不需要登录就可以访问 RTSP 并查看视频。



- 当前用户：如果您选择了 <使用>，则您可以设置或更改用户权限。

- 配置文件：如果您选择了 <默认>，则您只能查看默认配置文件视频；如果选择了 <全部>，则您可以查看全部配置文件视频。



- 允许使用已注册 ONVIF 功能的用户限制为那些已授予许可的用户。
- 图象传输和图象信息变更：将配置文件设置为 <全部> 并启用其余授权项。

4. 完成后，请单击 [应用 ()]。

日期和时间

1. 从设置菜单，选择 <Basic ()> 选项卡。

2. 单击 <日期和时间>。

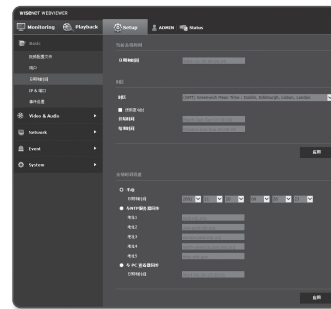
3. 指定将应用于摄像机的时间和日期。

- 当前系统时间：显示系统的当前时间设置。
- 时区：指定本地基于 GMT 的时区。
- 使用夏令时：如果选中将在指定的时间段内将时间设置成比当地时区早一小时。仅在应用夏令时的地区显示此选项。
- 系统时间设置：指定将应用于您的系统的时间和日期。
 - 手动：手动指定时间。
 - 与 NTP 服务器同步：与指定的服务器地址的时间同步。
 - 与 PC 查看器同步：设置为连接计算机的时间。

4. 完成后，请单击 [应用 ()]。



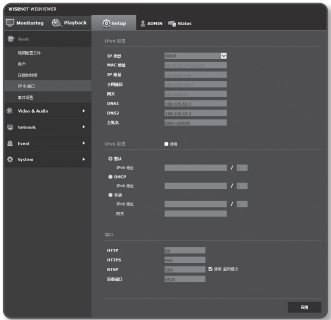
- 如果您选择 <与 PC 查看器同步>，则应该将标准时区设置为与计算机中的当前时区相同。



设置屏幕

IP & 端口

1. 从设置菜单，选择 <Basic ()> 选项卡。
2. 单击 <IP & 端口>。
3. 配置 <IPv4 设置>。
 - IP 类型：选择 IP 连接类型。
 - 手动：指定 IP 地址、子网掩码、网关、主机名、DNS1 和 DNS2。
 - DHCP：指定 DNS1 和 DNS2。
 - PPPoE：指定 DNS1、DNS2、ID 和密码。
 - 如果将其设置为 <手动>，则应手动指定 IP、子网掩码、网关和 DNS 1 和 2。
 - MAC 地址：显示 MAC 地址。
 - IP 地址：显示当前 IP 地址。
 - 子网掩码：显示所设 IP 的 <子网掩码>。
 - 网关：显示所设 IP 的 <网关>。
 - DNS1/DNS2：显示 DNS（域名服务）服务器地址。
 - 主机名：显示主机名称。
4. 配置 <IPv6 设置>。
 - 设置为 <使用> 以使用 IPv6 地址。
 - 默认：使用默认 IPv6 地址。
 - DHCP：显示并使用从 DHCP 服务器获取的 IPv6 地址。
 - 手动：手动输入 IP 地址和网关并使用它。



- ! ■ IP 寻址系统将默认为 DHCP。如果未找到 DHCP 服务器，将自动恢复之前的设置。
- 完成编辑之后，单击 [应用 ()] 以应用更改，并且浏览器将会退出。一小会之后，使用更改后的 IP 再次连接。

5. 在端口菜单的每个项目中键入所需信息。
 - 0 至 1023 之间的端口范围和端口 3702 都不可用。
 - HTTP：用于通过 Web 浏览器访问摄像机的 HTTP 端口。默认值是 80(TCP)。
 - 安全策略不允许将 Safari 和 Google Chrome 浏览器的 HTTP 端口设置为 65535。
 - HTTPS：在这个版本中，加强了 Web 通信协议 HTTP 的安全性。在 SSL 中设置 HTTPS 模式时可以使用该端口。初始值设置为 443(TCP)。
 - 可用的设置范围为 1024-65535。（为了安全起见，在您的 Safari 或 Google Chrome 浏览器中，可以不使用 65535 作为您的 HTTPS 端口。）
 - RTSP：用于以 RTSP 模式传输视频，默认值为 554。
 - 使用 超时提示：连接到 RTSP 时，如果一段时间内没有响应，此功能会重置连接。
 - 设备端口：设置用于根据 Wisenet 协议传输视频信号的端口。

- ✍ ■ 如果更改了 HTTP 端口，则浏览器会退出。此后，地址应该在 IP 后面包含新分配的 HTTP 端口。
例) IP 地址：192.168.1.100, HTTP 端口：分配了 8080 → http://192.168.1.100:8080
(如果将 HTTP 端口设置为 80，则不需要指定端口号)
- 建议使用 RTSP 和 HTTPS，以便防止图像信息被还原。

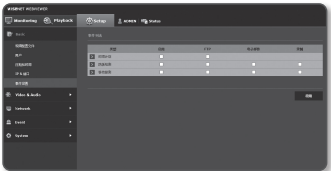
6. 完成后，请单击 [应用 ()]。

事件设置

您可以轻松设置事件探测项，并移到具体设置。

1. 从设置菜单，选择 <Basic ()> 选项卡。
2. 单击 <事件设置>。
3. 激活“事件列表”中的所需项。
4. 完成后，请单击 [应用 ()]。

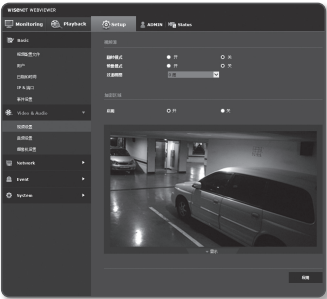
- ✍ ■ 要进行具体的事件设置，单击所需设置。转到具体的 <Event> 设置。



视频与音频设置

视频设

- 1. 从设置菜单，选择 <Video & Audio (🔊)> 选项卡。
- 2. 单击 <视频设置>。
- 3. 选择 <视频源> 模式。
 - 翻转模式：使摄像机捕捉的图像上下翻转。
 - 镜像模式：使摄像机捕捉的图像水平翻转。
 - 过道视图：将摄像机拍摄的视频旋转指定的角度。可以旋转 0、90 和 270 度。
 - 如果更改此设置，则会关闭浏览器窗口。过一段时间之后再尝试连接。
- 4. 指定隐私区域。
- 5. 完成后，请单击 [应用 (应用)]。



设置加密区域

可以指定为了您的隐私将保护摄像机视频的某些区域。

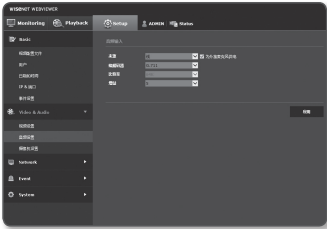
- 1. 将其设置为 <开>。
- 2. 单击 [应用 (应用)]。
- 3. 单击并拖动视频上所需的区域。
- 4. 输入名称，选择颜色，然后单击 [确认]。
- 5. 如果想删除列表中的某个名称，请将其选中并单击 [删除 (删除)]。



音频设置 (SNV-L6013R)

您可以配置连接到摄像机的音频的输入值。

- 1. 从设置菜单，选择 <Video & Audio (🔊)> 选项卡。
- 2. 单击 <音频设置>。
- 3. 设置音频输入值。
 - 来源：设置音频输入。
 - 线：将电缆连接到音频设备。
 - 外部麦克风：3.5 mm 插孔类型外部麦克风。
 - 为外部麦克风供电：如果连接的外部麦克风没有独立的电源，请选中此选项以将摄像机设置为向连接的外部麦克风供电。如果选择了 <外部麦克风>，则此选项可用。
 - 编解码器：指定音频编解码器。
 - G.711：一种音频编解码器标准，它使用 64 Kbps PCM（脉冲编码调制）编码。ITU 标准音频编解码器，对于在 PSTN 网络或通过 PBX 进行的数字语音传输而言已经足够。
 - G.726：ITU 标准音频编解码器，将可变比特率 40/32/24/16 Kbps 的 ADPCM（自适应差分脉冲编码调制）应用于 64 Kbps PCM 编码。
 - 比特率：如果使用 G.726 编解码器，则设置比特率以区分压缩比。
 - 增益：指定音频输入放大倍数。
- 4. 完成后，请单击 [应用 (应用)]。



设置屏幕

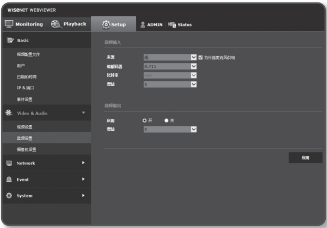
音频设置 (SNV-L6014RM)

可以配置摄像机的音频源的 I/O 设置。

1. 从设置菜单，选择 <Video & Audio (🔊)> 选项卡。
2. 单击 <音频设置>。
3. 设置音频输入值。
 - 来源：设置音频输入。
 - 线：将电缆连接到音频设备。
 - 内置麦克风：摄像机中内置的麦克风。
 - 外部麦克风：3.5 pi(c) 插孔类型外部麦克风。
 - 为外部麦克风供电：如果连接的外部麦克风没有独立的电源，请选中此选项以将摄像机设置为向连接的外部麦克风供电。如果选择了 <外部麦克风>，则此选项可用。
 - 编解码器：指定音频编解码器。
 - G.711：一种音频编解码器标准，它使用 64 Kbps PCM（脉冲编码调制）编码。ITU 标准音频编解码器，对于在 PSTN 网络或通过 PBX 进行的数字语音传输而言已经足够。
 - G.726：ITU 标准音频编解码器，将可变比特率 40/32/24/16 Kbps 的 ADPCM（自适应差分脉冲编码调制）应用于 64 Kbps PCM 编码。
 - 比特率：如果使用 G.726 编解码器，则设置比特率以区分压缩比。
 - 增益：指定音频输入放大倍数。

❗ 如果声源的音量或增益值设置过度，可能会发生音质下降或振鸣。

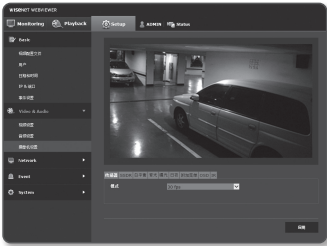
4. 设置音频输出级别。
 - 启用：设置是否使用音频输出。
 - 增益：指定音频输出放大倍数。
5. 完成后，请单击 [应用 (🔧)]。



摄像机 设置

可以根据摄像机所在的环境更改摄像机设置。

1. 从设置菜单，选择 <Video & Audio (🔊)> 选项卡。
2. 单击 <摄像机 设置>。
3. 根据需要配置以下各项的设置：传感器、SSDR、白平衡、背光、曝光、日夜、附加菜单、OSD、IR
4. 完成后，请单击 [应用 (🔧)]。
 - 如果在更改设置之后经过一定的时间未按 [应用 (🔧)] 按钮（超时：240 秒），则不会应用您的更改。



设置传感器

指定摄像机 CMOS 传感器每秒钟将捕捉多少帧。

1. 选择 <传感器>。
2. 选择 <模式>。



■ 请参考“视频配置文件”，了解基于模式设置的 <视频配置文件> 的帧率设置范围。（第 27 页）



设置 SSDR

在明暗差异非常大的场景中，您可以单独增加黑暗区域的亮度以调整总亮度。

1. 选择 <SSDR>。
2. 将 <模式> 设置为 <开>。
3. 配置必要的 <级别> 和 <范围> 设置。
 - 级别：调整动态范围的级别。
 - 范围：选择动态范围的幅度区域。



设置白平衡

在任何照明条件下，可以基于白色校正图像颜色。

1. 选择 <白平衡>。

2. 选择 <模式>。

- 自动追踪白平衡：自动校正摄像机视频的颜色。
- 手动：可以手动调整摄像机视频的红色和蓝色增益。
- 自动白平衡：根据当前照明条件和屏幕模式进行优化，校正摄像机视频的颜色。要获得当前照明的最佳条件，请将摄像机的焦点对准白纸，然后按 [设置] 按钮。
- 室外：根据室外环境进行优化，自动校正摄像机的视频颜色。
- 室内：根据室内环境进行优化，自动校正摄像机的视频颜色。



■ 在自动白平衡模式中，如果要保留当前图像的白平衡级别，请单击 [设置] 按钮。

■ 在下列情况下，白平衡可能无法正常工作：在这种情况下，请切换到“自动白平衡”模式。

- 如果物体的周围环境条件超出测试校正范围
示例) 清澈的蓝天，日落
- 如果物体的周围环境黑暗
- 如果摄像机的焦点直接面对荧光灯照明，或者如果将摄像机安装在照明变化的位置，白平衡操作可能会不稳定。

设置背光补偿

可以手动在视频上指定想要的区域和设置要更清晰显示的区域。

1. 选择 <背光>。

2. 将 <模式> 设置为 <背光补偿>。

3. 设置 <背光补偿级别>。

可以更改等级以调整监视区域的亮度。

4. 设置 <顶部, 底部, 左边, 右边> 等级以指定目标区域。



■ 设置背光补偿时，绿框在屏幕上显示 15 秒。

■ 为了避免在背光补偿设置时出现故障，背光补偿区域的纵向空间应大于 40 且低于 60，而横向空间应大于 30 且低于 60。

设置曝光

可以调整摄像机的曝光级别。

1. 选择 <曝光>。

2. 选择各项并进行正确设置。

- 亮度：调整屏幕亮度。
- 最小快门：最长曝光时间的限值。
 - 快门是用于设置传感器曝光时间范围的模式，该范围指定了电子快门移动的上限和下限。
 - 如果快门值低于传感器模式中指定的值，在黑暗条件下可以降低帧率。
- 最大快门：最短曝光时间的限值。
- 防闪烁：用于防止周围光线和频率之间不协调引起的屏幕闪烁。
- SSNR：选择“启用”或“禁用”视频噪声消除功能。
- SSNR 级别：调整降噪级别。
- 自动增益：选择自动增益控制模式。调整视频的增益值（即，具体地说，在低对比度场景中录制且亮度级别低于正常）以控制视频亮度。



■ 根据快门设置范围，图像曝光可能饱和。

设置日夜

1. 选择 <日夜>。

2. 选择各项并进行正确设置。

- 模式：“模式”用于将颜色调整为彩色或黑白。
 - 彩色：始终以彩色输出视频。
 - 黑白：始终以黑白输出视频。
 - 自动：通常设置为彩色，但在夜晚亮度较低时使用黑白。
 - 如果 <曝光> 菜单中的 AGC 设置为 <关>，无法将日夜模式设置为 <自动>。
- 计划：设置摄像机以彩色模式工作的时间段。
- 等待时间：必须保持所选亮度条件，以便在日夜之间切换光照模式的时间段。
- 转换条件：指定光照模式转换的时间间隔。
- 激活时间（彩色）：指定彩色模式工作的时间计划。
 - 如果设置此项，从开始时间 00 秒 到结束时间 59 秒 会保持彩色模式。



■ 如果您想切换日间 / 夜间模式，将无法检测移动探测事件。

设置屏幕

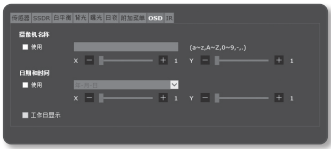
设置附加菜单

1. 选择 <附加菜单>。
2. 选择各项并进行正确设置。
 - 锐利度：调整图像的总清晰度。
如果选择了 <开>，您可以调整图像的清晰度。
 - 锐利度级别：级别越高，图像轮廓变得越清晰和越清楚。
 - 伽玛值：调整图像的对比度。
 - 色调级别：调整视频颜色的强度。
 - LDC：确定是否使用图像失真修正。
 - LDC Level：调整失真修正因数的等级。



设置 OSD

1. 选择 <OSD>。
2. 选择各项并进行正确设置。
 - 摄像机名称：指定要显示在屏幕上的摄像机名称。
 - 摄像机名称 X、Y：指定显示在屏幕上的摄像机名称的位置。
 - 日期和时间：设置屏幕上的时间显示和日期格式。
 - 日期和时间 X、Y：指定在屏幕上显示时间的位置。
 - 工作日显示：指定在屏幕上显示使用日期。



! 如果可调整位置的项目被另一个固定的 OSD 项目覆盖，那么通常情况下可能无法显示可调整位置的项目（摄像机标题、日期和时间）。

设置 IR

1. 选择 <IR>。
2. 选择各项并进行正确设置。
 - 模式：在黑白模式下红外指示灯亮起时，可避免屏幕处于中心区饱和状态。
 - 关：将禁用红外模式。
 - 自动：根据中心屏幕上物体的亮度调节红外亮度。



网络设置

DDNS

DDNS 是动态域名服务的缩写，该服务将摄像机的 IP 地址转换成一般主机名，以便用户可以轻松记住它。

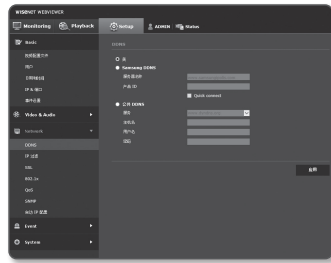
! 您只有在接通互联网时才能使用 DDNS 服务。

1. 从设置菜单，选择 <Network (网络)> 选项卡。
2. 单击 <DDNS>。
3. 选择 <DDNS> 连接类型。
4. 根据所选类型键入 DDNS 项目。
 - Wisenet DDNS：如果使用 Hanwha Techwin 提供的 DDNS 服务器，请选择此项。
 - 产品 ID：输入向 Wisenet DDNS 服务注册的产品 ID。
 - Quick connect：当与支持 UPnP（通用即插即用）的路由器配合使用时，它会自动设置端口转发。
5. 完成后，请单击 [应用 (应用)]。

! 如果想使用 DDNS 服务而不使用支持 UPnP 功能的集线器，则需要转到集线器菜单并激活集线器的端口转发。
有关如何设置集线器端口转发的详细信息，请参阅“路由器端口设置”。（第 18 页）

- 公共 DDNS：使用公共 DDNS 服务器时，可从所提供的公共 DDNS 服务器中选择一个。
 - 服务：选择所需的公共 DDNS 服务器的服务器。
 - 主机名：输入向 DDNS 服务器注册的主机的名称。
 - 用户名：输入 DDNS 服务器的用户名。
 - 密码：输入 DDNS 服务器的密码。

! 如果选择了 <Quick connect>，请确保选择 Wisenet DDNS 服务。



注册 DDNS

向 Wisenet DDNS 注册您的产品

1. 访问 Wisenet DDNS 网站(<http://ddns.hanwha-security.com>)并注册会员。

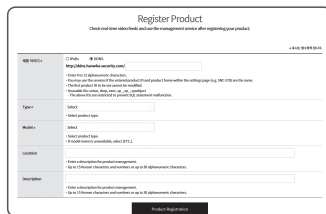


2. 从顶部的菜单栏, 选择 <MY DDNS>。



3. 点击[Register Product]选项卡。

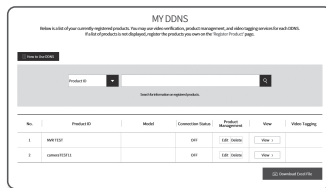
4. 输入产品 ID。



5. 指定<Type>和<Model>。

6. 指定产品位置及说明 (如有必要)。

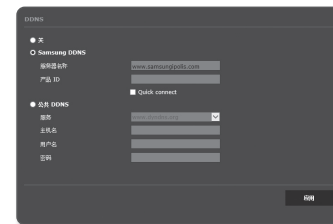
7. 单击 [Product Registration]。
您可在列表中看到新注册的产品信息。



No.	Product ID	Model	Connection Status	Registration Date	Value Tagging
1	WDR120P	WDR120P	OK	1.00. 2020.01.01	None
2	WDR120P	WDR120P	OK	1.00. 2020.01.01	None

在摄像机设置中连接至 Wisenet DDNS

1. 从 DDNS 设置页面, 将 <DDNS> 设置为 <Wisenet DDNS>。
2. 提供向 DDNS 网站注册产品 ID 时指定的 <产品 ID>。
3. 单击 [应用 (应用)]。
成功进行连接后, 屏幕上将显示消息 <(成功)>。



在摄像机设置中配置公共 DDNS

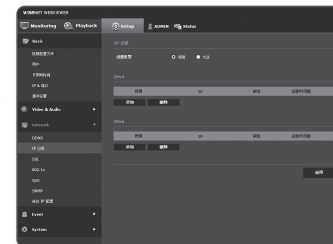
1. 打开 DDNS 设置页面并为 <DDNS> 选择 <公共 DDNS>。
2. 输入相应站点的主机名、用户名和密码。
3. 单击 [应用 (应用)] 按钮。
如果正确建立连接, <(成功)> 将会出现。
4. 完成后, 请单击 [应用 (应用)]。

■ 要正确使用 DDNS 服务, 需要 DDNS 设置和路由器的端口转发设置。
对于端口转发设置, 请参阅“路由器端口设置”。(第 18 页)

IP 过滤

可以创建想要授予或拒绝访问权限的 IP 列表。

1. 从设置菜单, 选择 <Network (网络)> 选项卡。
2. 单击 <IP 过滤>。
3. 选择 <过滤类型>。
 - 拒绝: 如果选择此项, 将限制过滤列表的那些 IP 进行的访问。
 - 允许: 如果选择此项, 将只接受过滤列表的那些 IP 进行的访问。
4. 单击 [添加 (添加)] 按钮。
将会创建 IP 列表。
5. 提供想要授予或拒绝访问权限的 IP。
输入 IP 地址和前缀时, 可用的 IP 地址列表将出现在右侧过滤范围列中。



设置屏幕



- 如果为 IP 过滤 选择了 <允许> 并且 <IP & 端口> 的 <IPv6 设置> 设为 <使用>，则应该分配当前计算机配置的 IPv4 和 IPv6 地址。
- 不能将用于当前设置的计算机的 IP 地址添加至 <拒绝>，应该将它添加至 <允许>。
- 只有设置为 <使用> 的 IP 地址才会显示在过滤器列表中。

6. 从列表中选择要删除的 IP。

单击 [删除 ()] 按钮。

7. 完成后，请单击 [应用 ()]。

SSL

可以选择安全连接系统或安装公共证书用于此目的。

1. 从设置菜单，选择 <Network ()> 选项卡。

2. 单击 <SSL>。

3. 选择安全连接系统。

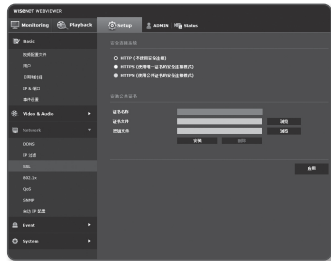
- 若使用 HTTPS 模式访问摄像机，您必须以 https://<Camera_IP> 形式键入摄像机的 IP 地址。
如果未在 Internet Explorer 中以 HTTPS 模式配置 Web Viewer 设置，请按如下所示编辑 Internet 选项：<菜单 → 工具 → Internet 选项 → 高级 → 安全 → 取消选择 TLS 1.0 并选择 TLS 1.1、TLS 1.2>

4. 搜索要安装在摄像机上的公共证书。

要将证书安装在摄像机上，需要提供证书名称（可由用户随意分配）、认证机构颁发的证书文件以及密钥文件。

- 仅当安装了公共证书，<HTTPS (使用公共证书的安全连接模式)> 项目才会活动。

5. 完成后，请单击 [应用 ()]。



安装证书

1. 输入证书名称。

2. 单击 [浏览 ()] 按钮,选择要安装的公共证书文件和密钥文件，然后单击 [安装 ()] 按钮。

删除证书

1. 单击 [删除 ()] 按钮。

2. 要删除公共证书，应该在 <HTTP (不使用安全连接)> 或 <HTTPS (使用唯一证书的安全连接模式)> 模式下访问网络视频解码器。

802.1x

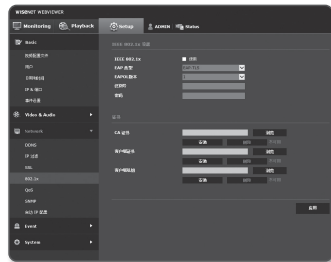
连接网络时，您可以选择是否使用 802.1x 协议，然后安装证书。

1. 从设置菜单，选择 <Network ()> 选项卡。

2. 单击 <802.1x>。

3. 设置 <IEEE 802.1x 设置>。

- IEEE 802.1x：指定使用 802.1x 协议。
- EAP 类型：选择 EAP-TLS 或 LEAP。
- EAPOL 版本：选择版本 1 或 2。
- 识别号：在 EAP-TLS 中输入客户端证书 ID，在 LEAP 中输入用户 ID。
- 密码：在 EAP-TLS 中输入客户端私钥密码，在 LEAP 中输入用户密码。如果它使用未加密的密钥文件，则无需在 EAP-TLS 中输入密码。



- 如果连接的网络设备不支持 802.1x 协议，那么即使您设置了该协议，它也不会正常执行。
- LEAP 是一种安全性较差的身份验证方法。仅在 EAP-TLS 不可用的情况下使用。

4. 安装/移除证书。

只有 EAP-TLS 需要证书。

- CA 证书：选择包含公共密钥的公共证书。
- 客户端证书：选择包含客户端证书密钥的公共证书。
- 客户端私钥：选择包含客户端私钥的公共证书。

5. 完成后，请单击 [应用 ()]。

安装/删除与 802.1x 相关的证书

1. 按每个项目的 [浏览 ()] 按钮并选择要安装的证书。

2. 如果未安装任何证书，则会看到“不可用”出现在所选项目旁边。

3. 按 [安装 ()] 按钮以开始安装，并在项目旁边显示消息“已安装”。

4. 按 [删除 ()] 按钮以删除证书。

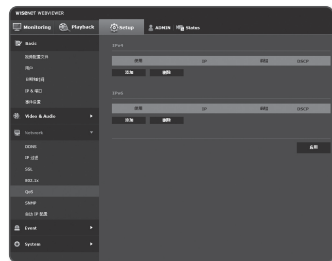
QoS

您可以指定优先级以确保特定 IP 的传输率稳定。

1. 从设置菜单，选择 <Network ()> 选项卡。
2. 单击 <QoS>。
3. 单击 [添加 ()] 按钮。
将会创建 IP 列表。
4. 输入将应用 QoS 的 IP 地址。

- 默认前缀对于 IPv4 是 32；
对于 DSCP，默认值设置为 63。
- 只能为设置为 <使用> 的 IP 地址设置优先级。

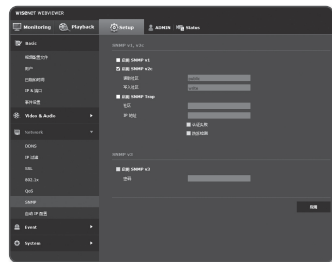
5. 从列表中选择要删除的 IP。
单击 [删除 ()] 按钮。
6. 完成后，请单击 [应用 ()]。



SNMP

通过 SNMP 协议，系统或网络管理员可以监视远程站点上的网络设备，以及配置环境设置。

1. 从设置菜单，选择 <Network ()> 选项卡。
2. 单击 <SNMP>。
3. 指定 <SNMP>。
 - 启用 SNMP v1：SNMP V1 将处于活动状态。
 - 启用 SNMP v2c：SNMP V2c 将处于活动状态。
 - 读取社区：提供读取社区的名称，可在其中访问 SNMP 信息。
默认名称为 <public>。
 - 写入社区：提供写入社区的名称，可在其中访问 SNMP 信息。默认名称为 <write>。
 - 启用 SNMP Trap：SNMP Trap 用于将重要事件和情况发送到管理员系统。
 - 社区：输入用于接收消息的 Trap 社区名称。
 - IP 地址：输入消息将发送到的 IP 地址。
 - 认证失败：指定当社区信息无效时是否生成事件。
 - 网络连接：指定当网络断开后恢复连接时是否生成事件。



- 启用 SNMP v3：SNMP V3 将处于活动状态。
 - 密码：指定 SNMP V3 的默认密码。
 - 默认密码可能会向黑客线程公开，因此建议您在安装产品之后更改该密码。
请注意，未更改密码导致的安全和其他相关问题，用户自己承担责任。
 - 密码长度应该为 8-16 个字符。

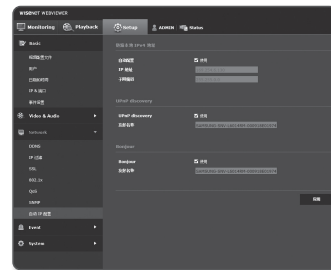
4. 完成后，请单击 [应用 ()]。

- ! ■ 仅当安全连接模式是 HTTPS 时，才能设置 SNMP v3。
请参阅“SSL”。(第 36 页)
- 如果您不使用 SNMP v3，则可能出现安全问题。

自动 IP 配置

您可以自动设置可用于访问和摄像机搜索的 IP。

1. 从设置菜单，选择 <Network ()> 选项卡。
2. 单击 <自动 IP 配置>。
3. 设置 <链路本地 IPv4 地址>。
可以分配一个额外的 IP 地址以从链路本地网络访问摄像机。
 - 自动配置：指定“启用”或“禁用”链路本地 IPv4 地址。
 - IP 地址：显示所分配的 IP 地址。
 - 子网掩码：显示所分配 IP 的子网掩码。
4. 设置 <UPnP discovery>。
可以在支持 UPnP 协议的客户端和操作系统中自动搜索摄像机。
 - UPnP discovery：指定“启用”或“禁用”UPnP 发现。
 - 友好名称：显示摄像机名称。
友好名称的显示格式为 WISENET- <型号名称>-<MAC 地址>。



- 在基本支持 UPnP 的 Windows 操作系统中，连接到网络的摄像机将显示出来。

5. 设置 <Bonjour>。
可以在支持 Bonjour 协议的客户端和操作系统中自动搜索摄像机。
 - Bonjour：指定“启用”或“禁用”Bonjour 发现。
 - 友好名称：显示摄像机名称。
友好名称的显示格式为 WISENET- <型号名称>-<MAC 地址>。

- 在默认支持 Bonjour 的 Mac 操作系统中，已连接的摄像机将自动显示在 Safari 网络浏览器的 Bonjour 书签中。
如果 Bonjour 书签没有显示出来，请在“首选项”菜单中检查书签设置。

6. 完成后，请单击 [应用 ()]。

设置屏幕

事件设置

FTP / 电子邮件

可以配置 FTP/电子邮件服务器设置，以便在事件发生时可以将使用摄像机拍摄的图像传输到您的计算机。

1. 从设置菜单，选择 <Event ()> 选项卡。
2. 单击 <FTP / 电子邮件>。
3. 选择 <FTP 配置> 或 <E-mail 配置> 并输入/选择所需的值。

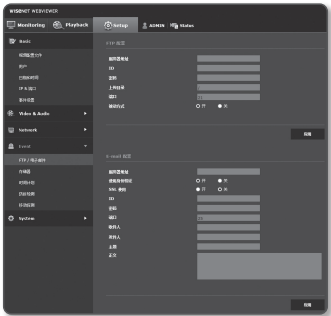
• FTP 配置

- 服务器地址：输入您将警报或事件图像传输到的 FTP 服务器的 IP 地址。
- ID：输入用于登录 FTP 服务器的用户 ID。
- 密码：输入用于登录 FTP 服务器的用户帐户密码。
- 上传目录：指定警报或事件图像将传输到的 FTP 路径。
- 端口：FTP 服务器的默认端口为 21；但是，可以根据 FTP 服务器设置使用不同的端口号。
- 被动方式：如果由于防火墙或 FTP 服务器设置需要以被动模式连接，请选择 <开>。

• E-mail 配置

- 服务器地址：输入您将警报或事件图像传输到的电子邮件服务器的 SMTP 地址。
- 使用身份验证：选择是否使用身份验证。
- SSL 使用：指定使用 SSL。
- ID：输入用于登录电子邮件服务器的用户 ID。
- 密码：输入用于登录电子邮件服务器的用户帐户密码。
- 端口：电子邮件服务器的默认端口为 25；但是，可以根据电子邮件服务器设置使用不同的端口号。
- 收件人：输入电子邮件收件人的地址。
- 发件人：输入电子邮件发件人的地址。如果发件人地址不正确，来自发件人的电子邮件可能会被电子邮件服务器分类为垃圾邮件，这样可能不发送。
- 主题：输入电子邮件的主题。
- 正文：为邮件提供文本。将警报或事件图像附加至准备的电子邮件。

4. 完成后，请单击 [应用 ()]。



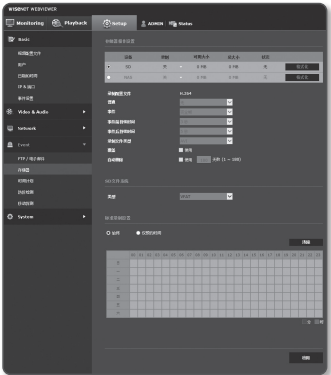
存储器

您可以在设备上激活录制，选择录制条件，检查已保存数据占用的容量，对设备自身进行格式化。

1. 从设置菜单，选择 <Event ()> 选项卡。
2. 单击 <存储器>。
3. 选择用来保存数据的设备。



- 如果设备正在正确录制数据，将显示“录制”。
- 如果显示“错误”信息，请检查以下各项：
 - 检查存储器，确认它已连接到设备。
 - 检查存储器中的文件，确认它们是否受损。
 - 检查存储器，确认它们是否受到物理损伤。
- 如果按照下列指示操作之后“错误”消息未消失，请格式化 Micro SD 卡。
格式化之后，如果错误消息仍然存在，请更换 Micro SD 卡。
- 如果您不在设置中将按钮移到“关”位置就移除 Micro SD 卡或者如果您将摄像机连接到不稳定的电源，那么 Micro SD 卡可能会受损。



- 在录制模式下运行完后，您仅限于 2 个同时可访问的配置文件和 3 个连接的用户。然而，现有用户将保持不变。

在 Micro SD 存储卡上进行录制

1. 将 SD 卡录制设置为 <开>。
2. 单击 [应用 ()] 按钮。
3. 检查存储卡的 <可用大小> 和 <总大小>。
您可以通过单击 <格式化> 按钮来格式化 Micro SD 卡。
 - 如果 Micro SD 存储卡以低于建议值的速度运行，可能会跳过某些帧。
如需更多信息，请参阅“建议的 Micro SD/SDHC/SDXC 存储卡规格”。(第 6 页)
 - 对于大容量的 Micro SD 存储卡，格式化将相应变慢。
 - 将摄像机设置为较高分辨率、较高帧速率或较高帧率时，数据流量会增大。
如果数据流量较大，可能会跳过某个帧，但仍会将其全帧存储。
 - 发生跳帧时，将以最低每秒一幅图像的速度保存图像。

4. 指定存储操作。

- 录制配置文件：显示录制配置文件的编解码器类型。
- 普通：以特定帧速率进行录制。
- 事件：设置发生的特定事件的录制类型。

- 事件前持续时间：指定警报发出之前的时间点；从该时间点开始，将传输图像。最多可以指定警报发出之前 5 秒。
- 事件后持续时间：指定警报发出之后的时间点；将传输图像到指定的时间点为止。最多可以指定警报发出之后 120 秒。
- 录制文件类型：指定所录制图像的文件格式。
 - STW：Hanwha Techwin 的独特文件格式。
 - AVI：传统的 avi 格式。

❗ 如果存储文件类型改变，那么现有数据将被格式化。

- 覆盖：如果 Micro SD 存储卡已满，这将删除旧数据并存储新数据代替。
- 自动删除：删除指定时间段的数据，不删除其他数据。
可以设置的范围是 1 到 180 天。

❗ 如果超出保留时间段，将自动删除相应数据并录制新数据。数据一旦删除即无法恢复。

5. 设置 <SD 文件系统>。

- 类型：对于 SD 卡文件系统，摄像机支持 VFAT 和 EXT4，用户可以进行设置。
(但是，需要另一个允许 EXT4 文件系统与 Windows 操作系统交互的应用程序。)

❗ 如果更改此设置，则会格式化现有数据。

- 对于 ext4 文件系统，格式化 SD 卡最多需要 10 分钟。

6. 指定 <标准录制设置>。

- 始终：始终将录制的视频保存在 Micro SD 存储卡中。
 - 如果设置为始终，则激活时间无法更改。
- 仅预约时间：仅在指定星期几的指定时间录制。
- [清除(清除)]：清除选择选定的时间。

7. 完成后，请单击 [应用 (应用)]。

如果希望录制到 NAS 中

1. 设置保存操作和基本录制。

❗ 只有 NAS 符合建议规格，才能支持自动删除。

2. 输入在 NAS 中注册的信息。

- IP 地址：为 NAS 分配的具有唯一性的 IP 地址。
- ID：这是 NAS 中注册的一个 ID。
- 密码：NAS 中注册的密码。
- 默认文件夹：指定用来保存数据的 NAS 用户文件夹。

3. 单击 [测试] 按钮来查看是否可以成功连接到 NAS。

❗ 如果显示成功消息，则意味着您可以成功地将数据保存到 NAS 中。

▪ 如果显示失败消息，请检查以下方面。

- 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。
- 检查是否作为其他用户尝试访问，而没有对所保存和使用的基本文件夹进行格式化。
- 确认使用了建议的 NAS 设备。

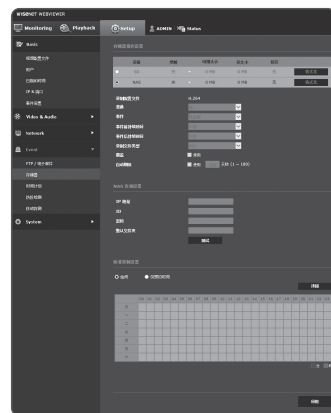
4. 设置结束后，将 NAS 装置设置为 <开>。

5. 单击 [应用 (应用)] 按钮。

6. 登录 NAS 并检查 <可用大小> 和 <总大小>。

您可以通过单击 <格式化> 按钮来格式化在 NAS 连接设置中指定的默认文件夹。

- 由于使用 NAS 时临时网络中断之后可能没有保存数据，因此我们建议您同时使用 SD 防止录制的图像丢失。
- 将摄像机设置为较高分辨率、较高速率或较高帧率时，数据流量会增大。
如果数据流量较大，可能会跳过某个帧，但仍会将其全帧存储。
- 发生跳帧时，将以最低每秒一幅图像的速度保存图像。



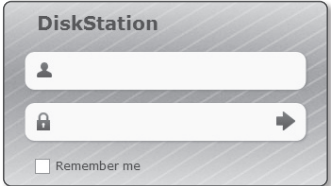
设置屏幕

NAS(网络连接存储器)指南

- 由于使用 NAS 时临时网络中断之后可能没有保存数据，因此我们建议您同时使用 SD 防止录制的图像丢失。
- 如果设置允许同时连接和使用 Micro SD 存储卡和 NAS，NAS 享有较高录制优先级。
- 如果通过将覆盖设置为 <关> 激活覆盖并且可用容量低于 1%，则将其保存在 Micro SD 卡中。
- 如果正将数据保存到 NAS，在插入其他摄像机使用的 Micro SD 存储卡时，可能无法保存数据。
- NAS 建议规格：请参阅“NAS 建议规格”。（第 6 页）
- 如果在数据保存到 NAS 期间更改 NAS 保存设置，该更改将不会立即在系统中反映出来。
- 如果在数据保存期间移除 NAS 设备，或者网络断开，NAS 保存操作将异常终止。
- NAS 保存只允许一台摄像机访问一个文件夹。不允许使用另一台摄像机登录，图像将不会保存。

下面描述了如何按照 Synology NAS（建议产品之一）方法使用 NAS 保存数据。

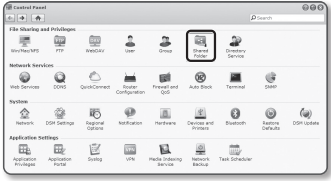
1. 作为管理员访问 Synology NAS。
在本例中，NAS IP 地址设置为 [192.168.20.253]。



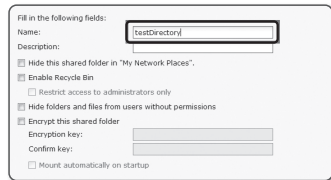
2. 如果作为管理员访问，将显示以下屏幕。单击 [Control Panel]。



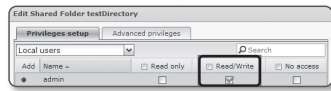
3. 在文件共享和权限菜单中单击 <Shared Folder>。



4. 单击 [Create] 按钮。
5. 在输入共享文件夹名称 (ID) 后，单击 [OK] 按钮来创建共享文件夹。
在本例中，共享文件夹名称是 [testDirectory]。



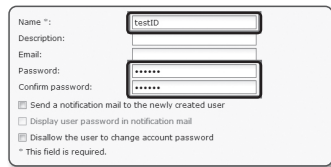
6. 在 Windows 中，针对 NAS 访问，如下设置共享文件夹的权限。
选中管理员的 [Read/Write] 权限。



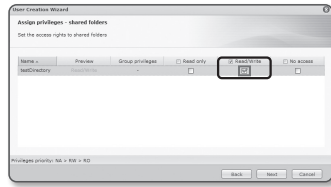
7. 在文件共享和权限菜单中单击 <User>。



8. 单击 [Create] 按钮后，输入名称 (ID) 和密码。
在本例中，名称 (ID) 设置为 [testID]，密码设置为 [testID]。
- 不支持制造商停止生产的型号。
 - 根据 NAS 建议，在使用 Netgear 的 NAS 设备时，不要分配要使用的容量。



9. 在 Windows 中，设置 NAS 访问的权限。
为第 4 步中创建的名称为“testDirectory”的共享文件夹，选中 [Read/Write] 权限。



10. 至此 NAS 中的基本设置已完成。
将摄像机连接到实际 NAS。
如下所示，输入 NAS 连接设置项。



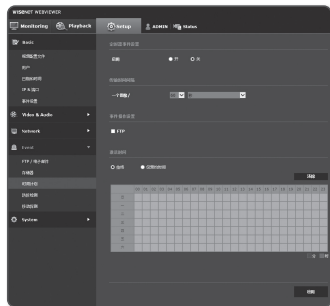
11. 在输入项目 10 后，选中 <开>。
12. 单击 [应用 (应用)] 按钮。
通过使用 NAS 来完成保存。



时间计划

可以设置为根据计划以特定间隔保存视频数据，而不考虑事件的实际情况。

- 从设置菜单，选择 <Event (事件)> 选项卡。
- 单击 <时间计划>。
- 设置是否 <启用>。
- 指定 <传输时间间隔>。
- 指定 <激活时间>。
 - 始终：始终在设置的时间间隔内以运行的模式激活。
 - 仅预约时间：在指定的时间和日期定期以运行的模式激活。
- 指定激活条件。
 - FTP：设置在使用时间计划时，是否启用 FTP 传输。
 - 有关详细信息，请参阅“FTP/电子邮件”。(第 38 页)
- 完成后，请单击 [应用 (应用)]。

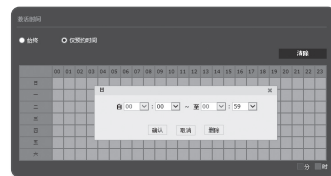
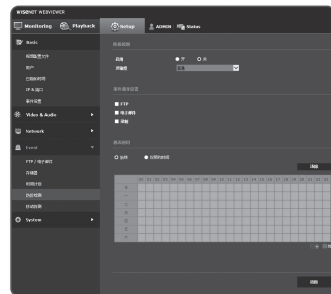


! 传输间隔设置值必须小于预设激活间隔才能成功进行图像传输。

防拆检测

您可以设置为检测拆离尝试并触发事件，例如摄像机取景框方向突然发生变化、镜头被蒙住以及视频的其他整个场景变化。

- 从设置菜单，选择 <Event (事件)> 选项卡。
- 单击 <防拆检测>。
- 设置是否 <启用>。
- 设置防拆检测灵敏度。灵敏度越高，越能检测最小的拆离尝试。
- 指定 <激活时间>。
 - 始终：持续检查是否发生了事件。如果探测到事件，则会执行预设操作。
 - 如果设置为 <始终>，激活时间将无法更改。
 - 仅预约时间：检查在特定日期特定时间是否发生了事件。如果探测到事件，则会执行预设操作。
 - [清除 (清除)]：重置时间设置。
 - 时：在“激活时间”上拖动鼠标并以小时为单位设置时间。
 - 分：单击“激活时间”中的某个区域并以分钟为单位设置时间。
- 配置在探测到事件时要执行的操作。
 - FTP：设置在探测到事件时是否要发送 FTP。
 - 有关详细信息，请参阅“FTP/电子邮件”。(第 38 页)
 - 电子邮件：设置在探测到事件时是否发送电子邮件。
 - 有关详细信息，请参阅“FTP/电子邮件”。(第 38 页)
 - 录制：设置在探测到事件时是否录制到 NAS 或微型 SD 卡。
 - 在 <存储器> 中将 <设备> 设置为 <开>。(第 38 页)
- 完成后，请单击 [应用 (应用)]。



- ! 在下列情况下，默认防拆检测功能可能无法正常工作：
- 在简单背景或低照度以及夜晚情况下，可能会降低检测灵敏度。
 - 摄像机摇晃严重或照明激烈变化会导致错误地视为拆离。
 - 防拆检测可能会在拆离发生之后的一定时间（最多 5 秒）进行。
 - 一旦检测到拆离，摄像机将继续在特定稳定性时间（大约 5 秒）之后继续标准操作，在此稳定性期间不会执行任何检测。

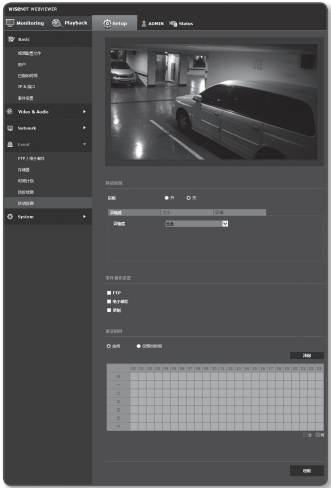
设置屏幕

移动探测

您可以对设置项进行配置，以使在观察到移动探测事件时，可以产生事件信号。

1. 从设置菜单，选择 <Event (📌)> 选项卡。
2. 单击 <移动探测>。
3. 设置是否 <启用>。
4. 设置 <灵敏度>、<大小> 和 <地区>。
5. 指定激活时间和激活条件。
 - 有关 <激活时间> 和 <动作> 的详细信息，请参阅“防拆检测”。（第 41 页）
6. 完成后，请单击 [应用 (🔧)]。

- !
- 在使用之前，设置最小和最大移动大小以适合要探测的所需迁移范围。
 - 物体的探测到大小与实际大小可能会有差异，视其形状而定。
 - 从屏幕顶部开始，最多可以显示 16 个物体。
 - 当摄像机拍摄到短距离范围内的物体时，移动探测功能可能会受到影响。
 - 在以下情况中，移动探测功能的性能可能会降低或可能造成探测失误。
 - 拍摄对象的颜色或亮度与背景类似。
 - 摄像机视野边界区域周围的小活动。
 - 由于场景变化、照明快速变化或其他原因，多次移动随机连续发生。
 - 固定的对象在一个位置连续不断地移动。
 - 位置变化不大的移动，例如逐渐靠近摄像机或从摄像机中慢慢消失。
 - 移动的对象离摄像机太近。
 - 对象隐藏在其他对象后面。
 - 2 个或更多对象重叠，或者 1 个对象被分成多个对象。
 - 对象速度太快（若要探测，一个对象应该在邻近的帧之间重叠）。
 - 由于太阳直射、照明或头灯等强光而出现反射 / 视线模糊 / 阴影。
 - 在大雪、大雨、大风或黎明 / 黄昏环境中。



使用移动探测

它会探测满足灵敏度、大小和区域指定的所有条件的移动。

1. 选择移动探测模式。
2. 选择 <灵敏度> 选项卡以设置灵敏度级别。可以设置传感器的灵敏度以检测监视视频中脱离背景的移动。

!

 - 在可以清楚区分物体与背景的情况下，将此项设置为低灵敏度级别。在难以区分物体的相反情况下，如低照度环境中，请将此项设置为高级别。
3. 选择 <大小> 选项卡。

您可以限制要探测的移动的最小/最大大小。

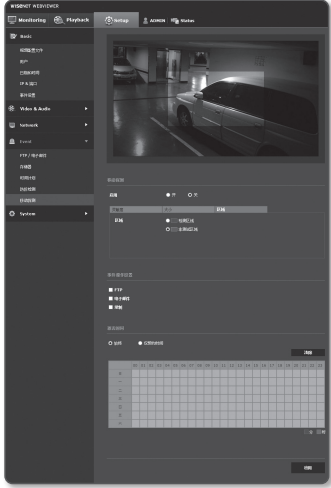
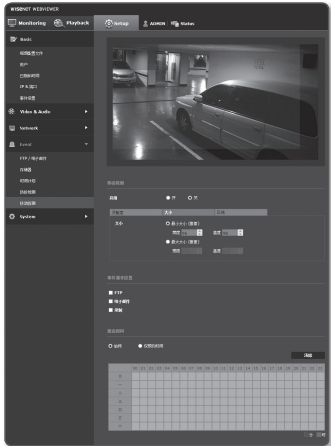
 - 最小大小（像素）：要设置被探测移动的最小大小，请选择 <最小大小（像素）>，然后使用鼠标指向屏幕上的位置并拖动至所需大小。
 - 最大大小（像素）：要设置被探测移动的最大大小，请选择 <最大大小（像素）>，然后使用鼠标指向屏幕上的位置并拖动至所需大小。

!

 - 无法探测小于指定最小大小或大于最大大小的移动。为了避免大杂讯导致的意外探测，请根据环境相应地设置最小/最大大小。请注意，相同位置处的相同移动在其检测大小方面可能会检测到不同；建议您在设置最小/最大探测大小时，考虑并包括公差。
4. 选择 <地区> 选项卡。

您可以指定屏幕上要包括到探测中或从探测中排除的区域。您最多可以指定 4 个区域。

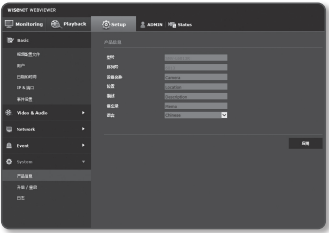
 - 检测区域：将整个屏幕设置为从探测中排除，并将指定的区域添加为移动探测区域。使用鼠标在图像上选择 4 个顶点以指定探测区域。
 - 非测试区域：将整个屏幕设置为移动探测区域，并排除指定的区域作为不探测的区域。使用鼠标在图像上选择 4 个顶点以指定非探测区域。
5. 要删除区域，请右键单击屏幕以打开弹出窗口上下文菜单，然后选择删除和 [确认] 按钮。
6. 完成后，请单击 [应用 (🔧)]。



系统设置

产品信息

1. 从设置菜单, 选择 <Event ()> 选项卡。
2. 单击 <产品信息>。
3. 检查摄像机信息, 或根据网络环境提供详细信息。
 - 型号: 产品的型号名称。
 - 序列号: 产品序列号。
 - 设备名称: 提供将在现场屏幕上显示的设备名称。
 - 位置: 指定安装摄像机的位置。
 - 描述: 提供有关摄像机位置的详细信息。
 - 备忘录: 提供有关摄像机的说明以便更好理解。
 - 语言: 选择 Web 查看器 OSD 的首选语言。

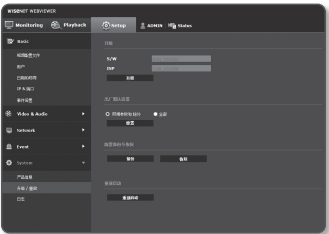


 ■ 默认语言设置为 <中文>。

4. 完成后, 请单击 [应用 ()]。

升级 / 重启

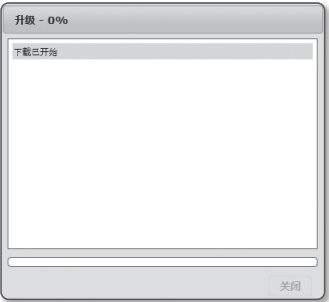
1. 从设置菜单, 选择 <System ()> 选项卡。
2. 单击 <升级 / 重启>。
3. 选择所需的项目并进行适当设置。
 - 升级: 执行系统升级。
 - 出厂默认设置: 将系统重置为出厂默认值。
 - 网络参数和 除外: 初始化所有设置 (与网络和镜头相关的设置除外)。
 - 全部: 重置包括摄像机设置在内的所有设置。(但是, 将不重置日志信息)
 - 如果重置摄像机, IP 寻址系统将默认为 DHCP。如果未找到 DHCP 服务器, 将自动恢复之前的设置。
- 配置备份与恢复: 在执行恢复流程之前, 备份当前的系统设置。备份或恢复之后, 系统会自动重新启动。
- 重新启动: 重新启动系统。



执行升级

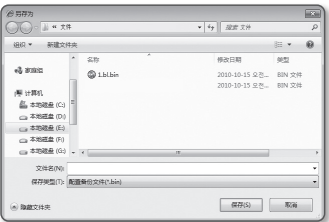
1. 单击 [升级]。
2. 单击 [浏览] 并指定要升级的文件。
3. 单击 [发送]。
4. “升级”对话框出现, 其底部将显示进度。
5. 完成升级之后, 浏览器将会退出, 并且摄像机将重新启动。

-  ■ 升级过程大约需要 10 分钟。
如果强行终止升级流程, 升级将无法正确完成。
- 在重新启动系统期间, 不能使用 Web Viewer 进行访问。
- 可以从 Hanwha Techwin 网站下载最新版本。



备份当前设置

1. 单击 [备份]。
另存为对话框将出现。
2. 指定备份路径及正确的文件名, 然后单击 [保存(S)]。
备份文件将以 “.bin” 格式保存到指定的路径。

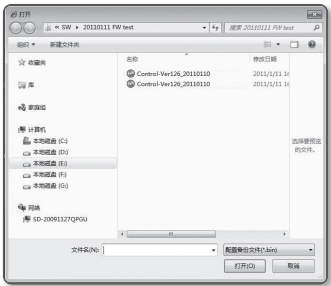


设置屏幕

恢复备份设置

1. 要恢复备份设置，请单击 [恢复]。
2. 选择备份文件，然后单击 [打开(O)]。

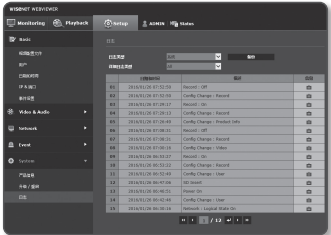
- 如果执行备份或恢复，Web 浏览器将关闭，且摄像机将重新启动。
- 如果您试图恢复其它型号上备份的配置 文件，有些功能可能会失去作用，您需要手动更改设置。



日志

可以检查系统日志或事件日志。

1. 从设置菜单，选择 <System (⚙️)> 选项卡。
2. 单击 <日志>。
3. 选择日志类型。
 - 系统：您可以检查系统日志，其中记录了所有系统更改，包括时间信息。
 - 事件：可以检查事件日志，包括时间信息。
4. 从右边的日志列表，选择要搜索的项目。
 - 如果在左上角的下拉列表中选择了 <All>，将显示适用日志类型的所有日志。
5. 如果一页无法显示所有可用的日志，请使用底部按钮以移至前一个、下一个或最后项目。
6. 单击 <备份> 按钮可将当前所选模式（系统、事件）的所有日志数据保存在浏览器 download 文件夹的“摄像机型号名称-模式-摄像机中创建的时间戳值.txt”文件中。



- 如果要查看日志的详细信息，请单击日志右列中的 [信息 (i)]；日志信息将显示在底部窗格中。
- 每页显示 15 个日志，最新的日志显示在顶部。
- 事件/系统日志列表最多可包含 1000 个日志；之后，每当创建新日志时，将删除最旧的现有日志。

查看配置文件信息

配置文件访问

您可以检查配置文件信息。

1. 单击实时屏幕中的 [Status (📊)]。
2. 将显示配置文件信息屏幕。
 - 配置文件访问：显示新添加的配置文件的。
 - 配置文件：显示新添加的编解码器的信息。
 - 比特率(kbps)：显示实际比特率和设置的比特率。
 - 帧率(fps)：显示实际帧速率和设置的帧速率。
 - ATC(%)：显示 ATC 状态。
 - 并行用户计数：显示访问配置文件的并行用户数。
 - 当前用户：显示有关用户访问 Web Viewer 的信息并显示监视频。
 - 配置文件：显示用户访问的配置文件的名称。
 - 比特率(kbps)：显示当前比特率。
 - 网络连接状态：它表明网络是否工作正常。
 - IP：显示当前用户的 IP 地址。



- 要检查有关当前使用的配置文件的信息，请再次单击 [Status (📊)] 以刷新它。应用更改需要一些时间。

故障排除

故障	解决方法
无法使用网络浏览器访问摄像机。	• 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。 • 若摄像机与宽带路由器连接、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。
无法使用 IE 7.0 的选项卡浏览器连接系统。	• 由于共享了 cookie 数据，所以与新窗口或选项卡连接时可能出错。不要使用新窗口或选项卡，选择“文件 → 新建会话”
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。
当<Event> 项下<移动探测>设置为<开启>时,即使摄像机已经生成移动探测事件,也无法通过电子邮件发送文件。	• 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。

故障	解决方法
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 <Setup> → <Event> → <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。 • 检查是否作为其他用户尝试访问，而没有对所保存和使用的基本文件夹进行格式化。 • 确认使用了建议的 NAS 设备。

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GPL SW

Component Name	License	URL
Base Kernel	GPL 3.0	http://www.busybox.net/downloads/snapshots
Busybox	GPL 2.0	
iproute2-3.1.0	GPL 2.0	
alsa-utils-1.0.24.2	GPL 2.0	http://ftp.netfilter.org/pub/iptables
alsa-lib-1.0.24.1	GPL 2.0	
iptables-1.4.12.2	GPL 2.0	
ethtool-3.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtd-utils
mtd-1.4.1	GPL 2.0	
mli-diag-2.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
rp-pppoe-3.10	GPL 2.0	
wpa_supplicant-0.7.3	GPL 2.0	
bash-4.2	GPL 3.0	
zeroconf	GPL 2.0	

LGPL SW

Component Name	License	URL
glibc	LGPL 2.0	http://www.webdav.org/neon/
inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	
	(The Manual and test suite are GPL)	

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lperf 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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