WISENET

网络摄像机
用户手册

QND-6012R/6022R/6032R/6072R/6082R
QNV-6012R/6022R/6032R/6072R/6082R
QNO-6012R/6022R/6032R/6072R/6082R

CE

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。

概述

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. 本产品应使用标有“Class 2”或“LPS”标志的电源供应装置提供电源，额定电压为12Vdc，0.55A或PoE(48V)，0.16A。(QND-6072R/6082R, QNV-6072R/6082R)
16. 本产品应使用标有“Class 2”或“LPS”标志的电源供应装置提供电源，额定电压为12Vdc，0.54A或PoE(48V)，0.16A。(QND-6012R/6022R/6032R, QNV-6012R/6022R/6032R)
17. 本产品应使用标有“Class 2”或“LPS”标志的电源供应装置提供电源，额定电压为12Vdc，0.55A或PoE(48V)，0.16A。(QNO-6072R/6082R)
18. 本产品应使用标有“Class 2”或“LPS”标志的电源供应装置提供电源，额定电压为12Vdc，0.51A或PoE(48V)，0.15A。(QNO-6012R/6022R/6032R)
19. 本产品连接外部电源时请使用隔离电源。
20. 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。
21. 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。
22. 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。
23. 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。
24. 在水下安装或使用本产品可能导致产品严重损坏。
25. 在温度突变的情况下，气泡盖内部有可能会发生霜花，但图像没有问题。

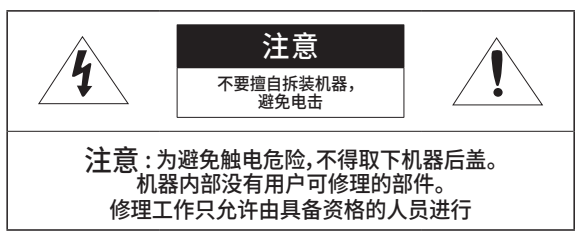
警告

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）。

无法更换电池。

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)	多滇二苯醚 (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 Techwin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。
- 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。

警告

为防止由IR LED引起的损坏，请勿直视操作灯。

该内容仅适用于以下型号。

QND-6012R/6022R/6032R/6072R/6082R
QNV-6012R/6022R/6032R/6072R/6082R
QNO-6012R/6022R/6032R/6072R/6082R

危险组1
警告，本产品放出IR。 **请勿直视操作灯。**
产品已通过IEC62471测试。

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概述

产品特色

- **防尘/防水 (IP66) (QNV-6012R/6022R/6032R/6072R/6082R, QNO-6012R/6022R/6032R/6072R/6082R)**
  防尘和防水设计可让您在室外安装产品或产品受雨淋时，不必担心。
- **红外模式**
  如果红外指示灯亮起，则产品切换至红外模式，以防止物体太亮，这可帮助您识别近距离的物体。
- **支持 2 百万像素分辨率视频**
- **多流**
  本网络摄像机可以同时使用不同的 CODEC、采用不同的分辨率和质量来显示视频。
- **基于 Web 浏览器的监视**
  通过Web浏览器，用户不仅在局域网，还在外部网络能查看视频。
- **警报**
  在发生事件时，视频发送到用户注册的电子邮件地址或 FTP 服务器，或者保存到微型 SD 卡或 NAS 中，或者向警报输出端子发送信号。
- **防拆检测**
  在视频监视上检测拆离尝试。
- **散焦检测功能**
  检测摄像机镜头是否出现散焦现象。
- **移动探测**
  从摄像机的视频输入检测移动。
- **自动检测断开的网络**
  检测网络断开连接，检测到便触发事件。
- **符合 ONVIF**
  本产品支持 ONVIF Profile S&G。
  有关详细信息，请参阅 www.onvif.org.

ONVIF
Driving network video through global standardization

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 10.12、10.13、10.14
- 建议使用的浏览器：Google Chrome
- 受支持的浏览器：MS Explore11、MS Edge, Mozilla Firefox（仅 Window 64 位）、Apple Safari(仅支持 Mac OS X)
- VGA ：PCIe 256MB GDDR3 或更高规格的视频图形卡

※ 请参阅附件了解已认证 OS 和浏览器的详细信息。

建议的 MICRO SD/SDHC/SDXC 存储卡规格

- 建议容量 : 16GB 至 128GB（MLC 类）
- 推荐制造商 : SanDisk, Transcend
- 产品类型 : 高耐久性
- 兼容性根据卡片的制造商和类型有可能有些差异。

NAS 建议规格

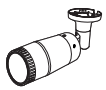
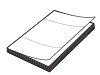
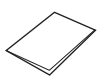
- 建议容量 : 200GB 或更高
- 同时访问 : 一套 NAS 可以同时接受最多十六个摄像机访问。
- 对于本摄像机，建议使用符合以下制造商规格的 NAS。

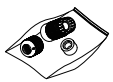
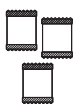
建议产品	可用尺寸
QNAP NAS	最多 16 个摄像机可同时访问。
Synology NAS	最多 16 个摄像机可同时访问。

▪ 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

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	型号名称
	摄像机	1		QND-6012R/6022R/6032R/6072R/6082R
		1		QNO-6012R/6022R/6032R/6072R/6082R
		1		QNV-6012R/6022R/6032R/6072R/6082R
	简介(可选)	1		QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R, QNO-6012R/6022R/6032R/6072R/6082R
	保修卡(可选)	1		QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R, QNO-6012R/6022R/6032R/6072R/6082R
	模板	1	产品安装指南	QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R, QNO-6012R/6022R/6032R/6072R/6082R
	电源接线板	1	插入电源插头	QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R
	L 型扳手	1	用于控制摄像机的方向	QNO-6012R/6022R/6032R/6072R/6082R

外观	品名	数量	功能	型号名称
	L型扳手(星状)	1	用于拆装圆顶盖	QNV-6012R/6022R/6032R/6072R/6082R,
	警报器电缆	1	用于连接警报器	QND-6012R/6022R/6032R/6072R/6082R
	RJ45 防水配件	1	用于安装在潮湿的地方	QNO-6012R/6022R/6032R/6072R/6082R
	防晒罩	1	它可让摄像机避免阳光直射。	QNO-6012R/6022R/6032R/6072R/6082R
	防晒罩固定螺钉	1	它将防晒罩与摄像机固定在一起。	QNO-6012R/6022R/6032R/6072R/6082R
	干燥剂	3	安装时固定在产品内部,用于防潮。	QNO-6012R/6022R/6032R/6072R/6082R
		1		QNV-6012R/6022R/6032R/6072R/6082R
	电源线	1	用于插入电源插座	QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R
	音频/警报器电缆	1	用于连接音频和警报器端口	QNV-6012R/6022R/6032R/6072R/6082R
	用于测试显示器的电缆	1	用于测试摄像机至便携式显示设备的连接	QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R, QNO-6012R/6022R/6032R/6072R/6082R

概述

外观	品名	数量	功能	型号名称
	线缆保护衬套	1	用于连接局域网线缆	QNV-6012R/6022R/ 6032R/6072R/6082R
	盖帽安装器	1	连接 RJ45 线缆时使用	QNV-6012R/6022R/ 6032R/6072R/6082R

可选的安装附件

为了更方便安装，您可以购买可选的附件。

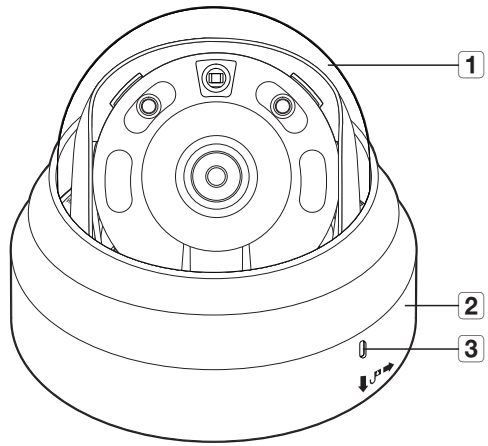




型号	挂式安装组件	后箱	柱形安装组件	通用
QNV-6012R/6022R/6032R	SBP-122HMW	SBV-120GW		SBP-300LMW (栏杆安装组件)
QNV-6072R/6082R	SBP-301HMW2	SBV-136BW		SBP-300CMW (天花板安装组件)
QND-6012R/6022R/6032R	SBP-300HMW7			SBP-300WMW1 (壁挂式安装组件)
QND-6072R/6082R	SBP-122HMW			SBP-300NBW (安装箱)
QNO-6012R/6022R/ 6032R/6072R/6082R		SBO-100B1	SBP-302PM	SBP-300PMW (柱形安装组件)
				SBP-300KMW (角落型安装组件)

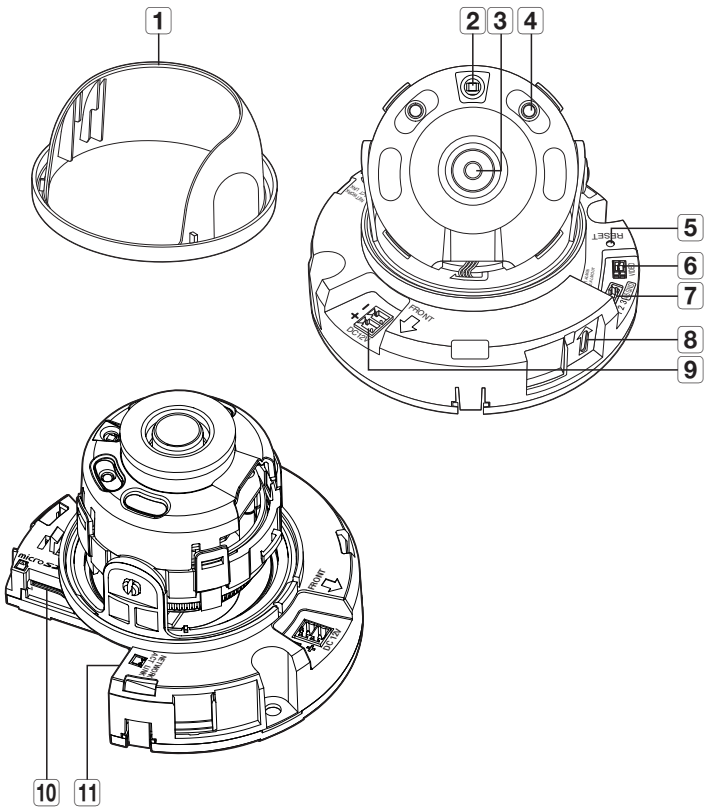
简图 (QND-6012R/6022R/6032R)

外观



名称	功能
1 球罩	用于保护镜头和机身的护盖。
2 摄像机外壳	盖住摄像机机身的外壳部分。
3 麦克风孔	内置麦克风。

组件

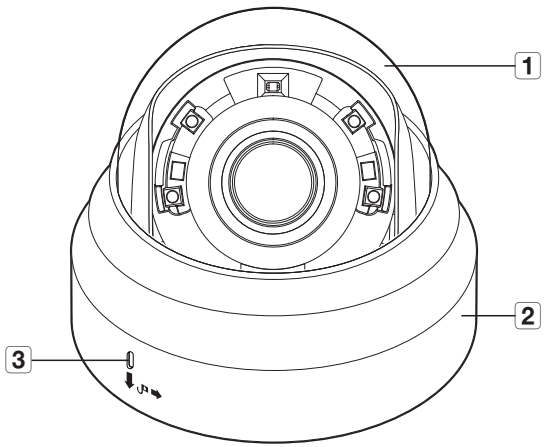


名称	功能	
1 内盖	主机身防护盖。	
2 照度传感器	检测进入光线以控制红外 LED。	
3 镜头	摄像机的镜头。	
4 红外 LED	这些红外 LED 由照度传感器控制。	
5 重置按钮	该按钮会将所有摄像机设置恢复为出厂默认值。 按住约 5 秒钟可重启系统。 摄像机被重置后，其网络设置会变为DHCP。如果网络中没有 DHCP 服务器，则必须运行 IP Installer 程序更改基本的网络设置，如 IP 地址、子网掩码、网关等，然后才能连接到网络。	
6 测试显示器输出	用于测试监视视频输出的输出端口。使用测试监视器电缆来连接至移动显示器并检查测试视频。	
7 警报 I/O 端口	ARM-IN	用于连接警报输入传感器或外部日夜传感器。
	ARM-OUT	用于连接警报输出信号。
	GND	有通用端口可以连接报警输入/输出信号。
8 麦克风孔	内置麦克风。	
9 电源端口	用于电源接线板的端口。	
10 Micro SD存储卡插入口	用于插入Micro SD存储卡的端子。	
11 网络端口	用于连接 PoE 或网络连接的以太网电缆。	

概述

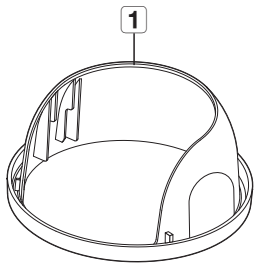
简图 (QND-6072R/6082R)

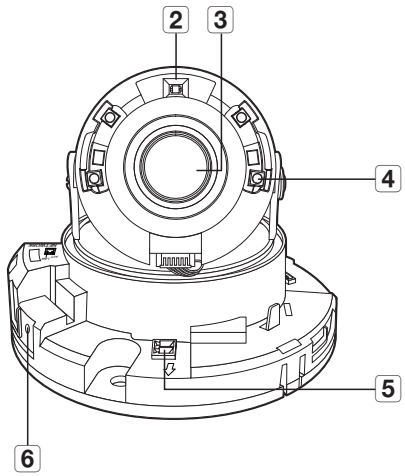
外观

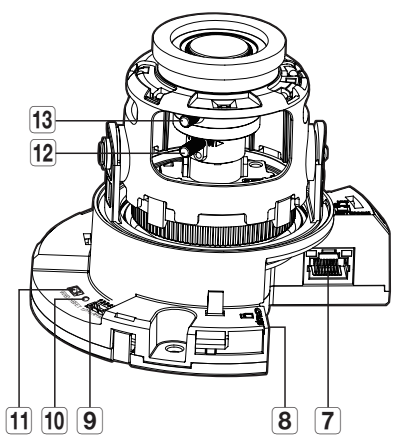


名称	功能
1 球罩	用于保护镜头和机身的护盖。
2 摄像机外壳	盖住摄像机机身的外壳部分。
3 麦克风孔	内置麦克风。

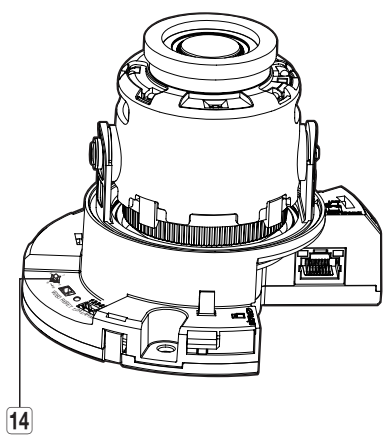
组件







<QND-6072R>



<QND-6082R>

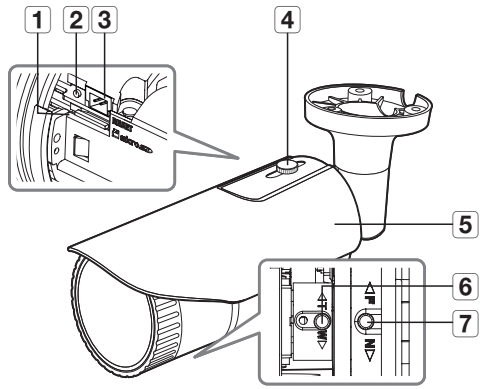
名称	功能	
1 内盖	主机身防护盖。	
2 照度传感器	检测进入光线以控制红外 LED。	
3 镜头	摄像机的镜头。	
4 红外 LED	这些红外 LED 由照度传感器控制。	
5 电源端口	用于电源接线板的端口。	
6 麦克风孔	内置麦克风。	
7 网络端口	用于连接 PoE 或网络连接的以太网电缆。	
8 Micro SD存储卡插入口	用于插入Micro SD存储卡的端子。	
9 警报 I/O 端口	ARM-IN	用于连接警报输入传感器或外部日夜传感器。
	ARM-OUT	用于连接警报输出信号。
	GND	有通用端口可以连接报警输入/输出信号。
10 重置按钮	该按钮会将所有摄像机设置恢复为出厂默认值。 按住约 5 秒钟可重启系统。 ! 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。	
11 测试显示器输出	用于测试监视视频输出的输出端口。使用测试监视器电缆来连接至移动显示器并检查测试视频。	

名称	功能	
12 缩放控制杆 (QND-6072R)	T	拉近（望远）
	W	拉远（宽）
	松开此杆，将其左右移动即可向前推进或推远镜头。 顺时针旋转此杆即可将其固定在调整好的位置，防止移动。	
13 对焦控制杆 (QND-6072R)	N	聚焦近处物体（近）
	F	聚焦远处物体（远）
	松开此杆，将其左右移动即可调整镜头聚焦。 顺时针旋转此杆即可将其固定在调整好的位置，防止移动。	
14 变焦/聚焦控制按钮 (QND-6082R)	T	拉近（Tele）
	W	拉远（Wide）
	N	聚焦近处物体（Near）
	F	聚焦远处物体（Far）
	聚焦控制	按下该按钮可自动进行聚焦控制

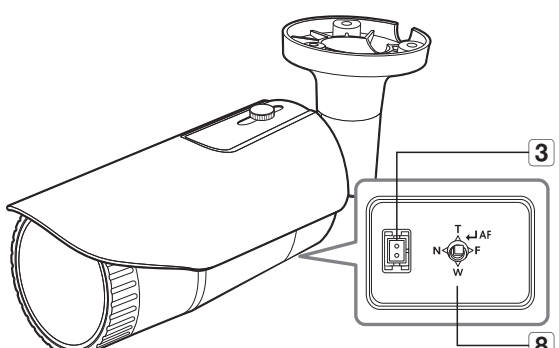
概述

简图 (QNO-6012R/6022R/6032R/6072R/6082R)

外观



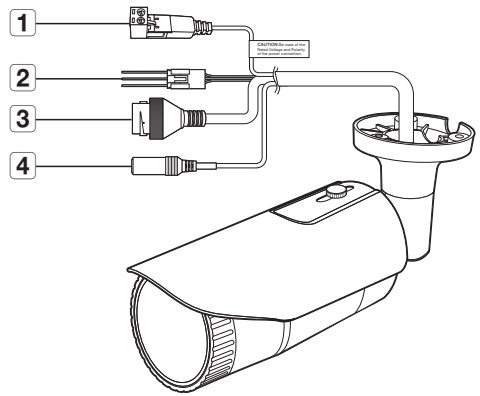
<QNO-6072R>



<QNO-6082R>

名称	功能	
1 内存卡槽	(产品的内部空间)您可以将内存卡插入此卡槽。	
2 重置按钮	该按钮会将所有摄像机设置恢复为出厂默认值。 按住约 5 秒钟可重启系统。 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。	
3 测试显示器输出	用于测试监视视频输出的输出端口。使用测试监视器电缆来连接至移动显示器并检查测试视频。	
4 防晒罩固定螺钉	它将防晒罩与摄像机固定在一起。	
5 防晒罩	它可让摄像机避免阳光直射。	
6 缩放控制杆 (QNO-6072R)	T	拉近(望远)
	W	拉远(宽)
	松开此杆,将其左右移动即可向前推进或推远镜头。 顺时针旋转此杆即可将其固定在调整好的位置,防止移动。	
7 对焦控制杆 (QNO-6072R)	N	聚焦近处物体(近)
	F	聚焦远处物体(远)
	松开此杆,将其左右移动即可调整镜头聚焦。 顺时针旋转此杆即可将其固定在调整好的位置,防止移动。	
8 变焦/聚焦控制按钮 (QNO-6082R)	T	拉近(Tele)
	W	拉远(Wide)
	N	聚焦近处物体(Near)
	F	聚焦远处物体(Far)
	聚焦控制	按下该按钮可自动进行聚焦控制

组件

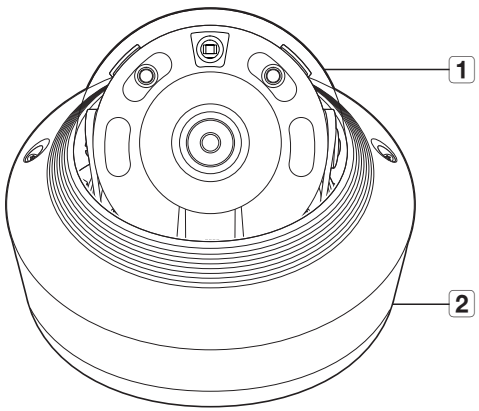


名称	功能	
1 电源端口	用于插入电源线。	
2 警报 I/O 端口	ARM-OUT	用于连接警报输出信号。
	GND	有通用端口可以连接报警输入/输出信号。
	ARM-IN	用于连接警报输入传感器或外部日夜传感器。
3 网络端口	用于连接 PoE 或网络连接的以太网电缆。	
4 音频输入插孔	用于连接到麦克风。	

概述

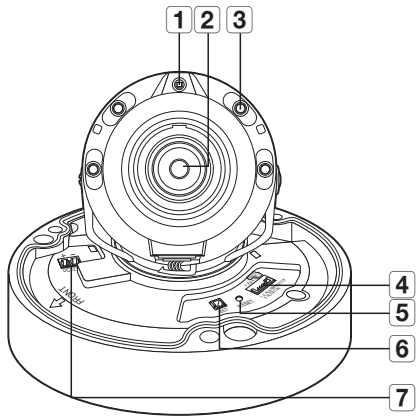
简图 (QNV-6012R/6022R/6032R/6072R/6082R)

外观

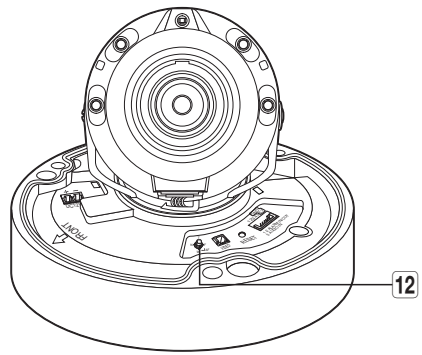


名称	功能
1 球罩	用于保护镜头和机身的护盖。
2 摄像机外壳	盖住摄像机机身的外壳部分。

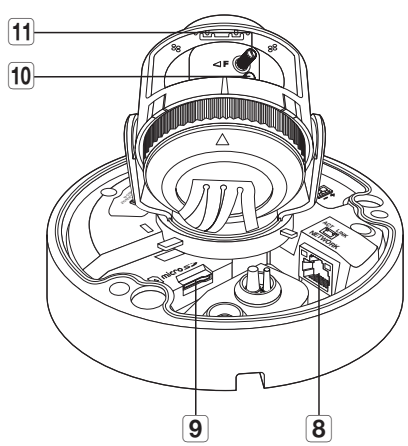
组件



<QNV-6072R>



<QNV-6082R>



<QNV-6072R>

名称	功能	
1 照度传感器	检测进入光线以控制红外 LED。	
2 镜头	摄像机的镜头。	
3 红外 LED	这些红外 LED 由照度传感器控制。	
4 音频和警报器端口	ARM-IN	用于连接警报输入传感器或外部日夜传感器。
	ARM-OUT	用于连接警报输出信号。
	GND	有通用端口可以连接报警输入/输出信号。
	AUDIO IN	用于连接到麦克风。
5 重置按钮	该按钮会将所有摄像机设置恢复为出厂默认值。 按住约 5 秒钟可重启系统。 ! 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。	
6 测试显示器输出	用于测试监视视频输出的输出端口。使用测试监视器电缆来连接至移动显示器并检查测试视频。	
7 电源端口	用于电源接线板的端口。	
8 网络端口	用于连接 PoE 或网络连接的以太网电缆。	
9 Micro SD存储卡插入口	用于插入Micro SD存储卡的端子。	
10 缩放控制杆 (QNV-6072R)	T	拉近(望远)
	W	拉远(宽)
	松开此杆，将其左右移动即可向前推进或推远镜头。 顺时针旋转此杆即可将其固定在调整好的位置，防止移动。	
11 对焦控制杆 (QNV-6072R)	N	聚焦近处物体(近)
	F	聚焦远处物体(远)
	松开此杆，将其左右移动即可调整镜头聚焦。 顺时针旋转此杆即可将其固定在调整好的位置，防止移动。	

名称	功能	
12 变焦/聚焦控制按钮 (QNV-6082R)	T	拉近(Tele)
	W	拉远(Wide)
	N	聚焦近处物体(Near)
	F	聚焦远处物体(Far)
	聚焦控制	按下该按钮可自动进行聚焦控制

安装与连接

安装 (QND-6012R/6022R/6032R/6072R/6082R)

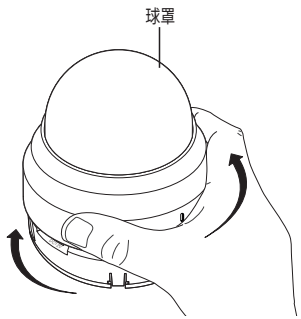
安装前注意事项

安装之前，请确保阅读下列说明：

- 用于安装它的区域(天花板或墙壁)的可承受重量必须至少 5 倍于包括安装支架在内的摄像机重量。
- 注意电缆夹在不适当的地点或电缆皮受损，以免发生火灾或产品破损。
- 为安全起见，让其他人远离安装地点。请立刻收拾放在安装地点下面的贵重品。

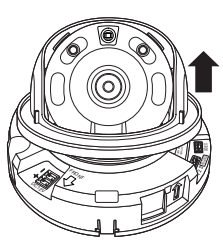
拆解

1. 用一只手握住摄像机底部，另一只手逆时针转动内罩。



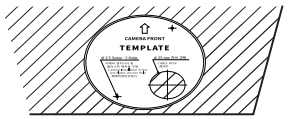
▪ 取下保护膜后，请勿触摸气泡盖的透明部分。

2. 向上提升内罩以将其分离。

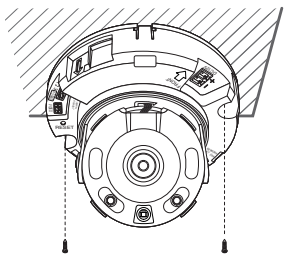


安装

1. 按照要监视的方向，粘贴模板，并按照模板钻孔。

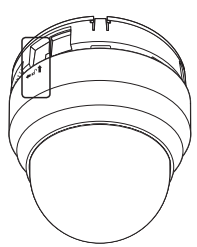


2. 使用2个自攻螺钉，将相机固定在用模板钻出的2个孔中。
   ▪ 使摄像机上压印的<⇧>标志朝向摄像机监视方向。
3. 使用适当的电缆连接摄像机内部端子。
4. 请参阅“**调整摄像机的监视方向**”来调整镜头，使其面向所需的方向。(第 23 页)



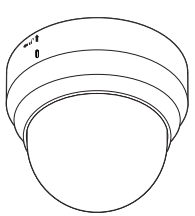
▪ 我们建议您不要触摸镜头，因为在最终制造流程中摄像机镜头已正确对焦。如果触摸镜头，镜头可能会无法对焦或者沾染灰尘或异物。

5. 请将内罩连接到主体上。
6. 用手握住摄像机底部时，请用另一只手握住并推它的护罩让两个箭头标记对齐，如图所示。



▪ 要装配圆顶盖，确保箭头相互对准，然后牢牢按下圆顶盖。
如在组装过程中球盖安反，或未能正确组装，可能出现漫反射现象，也可能使镜头部分安反，从而导致拍摄范围发生变化。

▪ 确保球盖已经如图所示，正确连接至底座部分。
如卡扣未能正确连接，球盖可能坠落、导致受伤。



安装 (QNO-6012R/6022R/6032R/6072R/6082R)

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

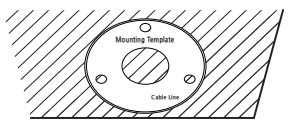
安装前注意事项

安装之前，请确保阅读下列说明：

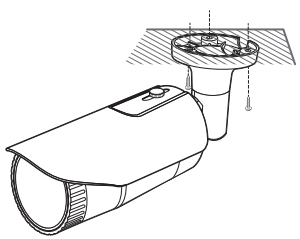
- 用于安装它的区域(天花板或墙壁)的可承受重量必须至少 5 倍于包括安装支架在内的摄像机重量。
- 注意电缆夹在不适当的地点或电缆皮受损，以免发生火灾或产品破损。
- 为安全起见，让其他人远离安装地点。请立刻收拾放在安装地点下面的贵重品。
- 请勿将遮光罩孔洞用于连接遮光罩以外的用途。
- 对于手动变焦镜头摄像机而言，变焦和缩放等功能应在安装前予以调整。调整这些功能时，务必要防止粘上异物。

安装

1. 按照要监视的方向，粘贴模板，并按照模板钻孔。

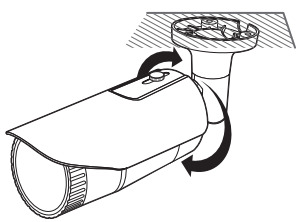


2. 使用3个自攻螺钉在3个孔中插入并固定摄像机。
3. 将适当的电缆连接至摄像机终端。



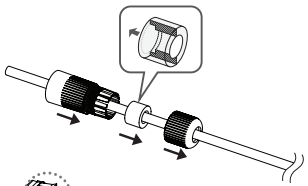
4. 使用提供的L型扳手调整摄像机的方向。

▪ 当您使用支架调整摄像机的位置时，请松开支架螺丝、调整摄像机，随后将支架螺丝拧紧。如果您在螺丝拧紧时试图强行调节摄像机，可能会导致划伤或其他问题。

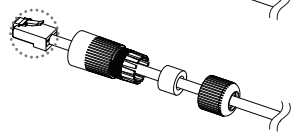


如何将 RJ45 防水电缆连接到 LAN 电缆

1. 沿箭头方向插入。

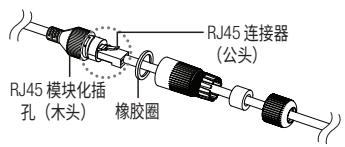


2. 将 LAN 连接器（公头）连接到电缆。

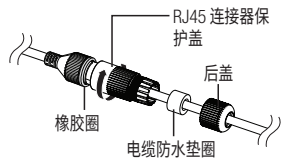


3. 将 RJ45 模块化插孔（木头）连接到 RJ45 连接器（公头）。

▪ 请保留拆下的每个零部件。

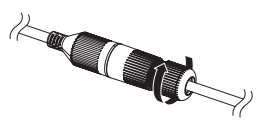


4. 通过顺时针旋转 RJ45 模块化插孔（木头）和 RJ45 保护盖（按箭头方向）来进行组装。



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。

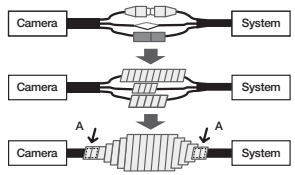


安装与连接

室外安装

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

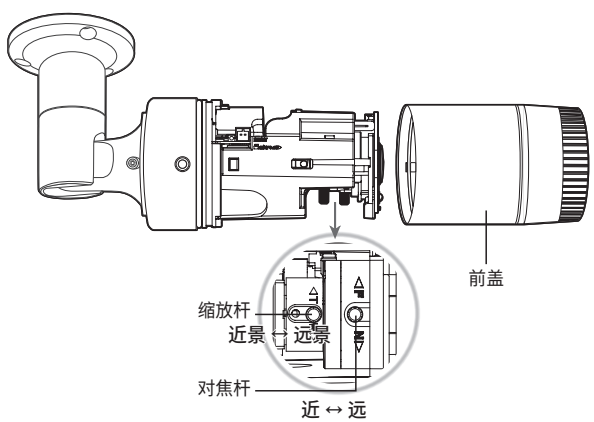
1. 连接电源、I/O、音频 和 LAN 电缆。
2. 用防水带(丁基橡胶)，包裹住黑色电缆套管（区域 A）和电缆连接区域，确保一半以上的丁基橡胶带重叠。



- 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。

调节缩放系数或焦点 (QNO-6072R)

1. 松开前盖，如图中所示。
2. 略微松开缩放/对焦杆。
3. 根据需要将缩放/对焦杆定位在近景（近）或远景（远）的位置。
4. 然后，拧紧缩放/对焦杆以固定所调节的位置。
5. 旋转前盖以将其拧紧。



- 要确保无缝防水，请将前盖旋转到位，将其拧紧。
  组装前盖时，请将机身与前盖组装在一起，以便锁定指示器能够互锁。
- 使用杆 - 缩放杆/对焦杆来调整缩放系数或焦点，并顺时针旋转杆来固定它。
- 应先松开取出前盖，然后才能调节缩放系数/焦点。

安装 (QNV-6012R/6022R/6032R)

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

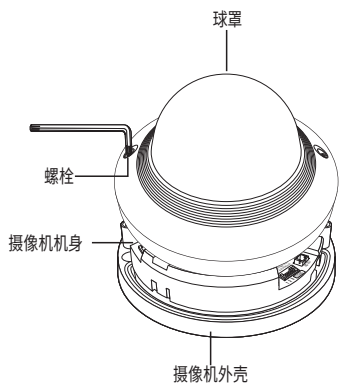
安装前注意事项

安装之前，请确保阅读下列说明：

- 用于安装它的区域(天花板或墙壁)的可承受重量必须至少 5 倍于包括安装支架在内的摄像机重量。
- 注意电缆夹在不适当的地点或电缆皮受损，以免发生火灾或产品破损。
- 为安全起见，让其他人远离安装地点。
  请立刻收拾放在安装地点下面的贵重品。

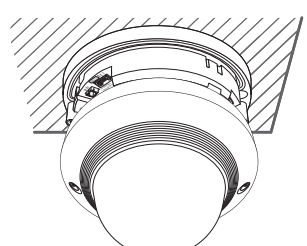
拆解

1. 使用随附提供的 L 型扳手，按照逆时针方向拧松 2 颗紧固螺栓，即可卸下顶盖。



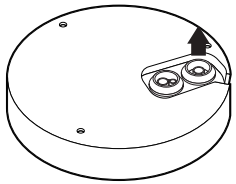
安装

1. 使用作为附件提供的模板，钻螺钉安装孔（直径为 6 毫米，最小深度为 55 毫米）并将作为附件提供的塑料锚栓牢牢插入底端。
2. 将底孔套入固定器也，然后插入并固定支架螺钉（M4.5xL50）。
3. 连接和排放必要的电缆，以免在安装摄像机时损坏或缠绕它们。
4. 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 23 页）
5. 闭合球罩。
   - 使用L型扳手拧紧固定螺栓可防止渗水。



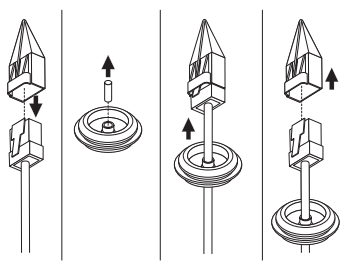
连接 LAN 线缆

1. 卸下球罩和壳体。
2. 如图所示，拉下并除去底部的电缆衬套。

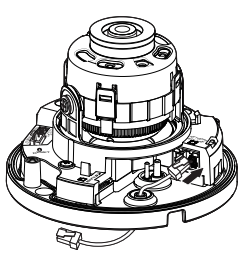


- 将适当的线缆保护衬套用于要连接的局域网线缆。
  - 基础摄像机:使用直径为5到6.5毫米的线缆。

3. 请拔下随附的1孔电缆衬套的突出部分。
4. 使用盖子安装程序将LAN电缆通过该孔。

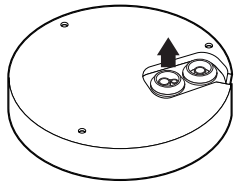


5. 将LAN电缆插入在步骤2中拆下电缆衬套后形成的孔里，然后将其连接到以太网终端。
6. 将LAN电缆上的衬套插入孔里。

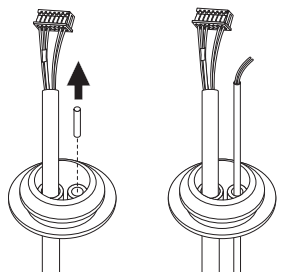


连接音频/警报线缆和电源线

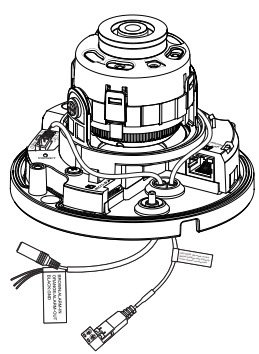
1. 卸下球罩和壳体。
2. 如图所示，拉下并除去底部的电缆衬套。



3. 拉下警报/音频电缆衬套上的小挤压部件，然后将电源线穿过衬套。



4. 将音频/警报电缆和电源电插入在步骤2中拆下电缆衬套后形成的孔里，然后将其分别连接到PCB的报警端子和电源接线端子。
5. 为防止电缆受损或挤压，在安装摄像机时，请将电缆挂在固定挂钩上。
6. 将报警/音频电缆上的衬套插入孔里。
7. 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 23 页）
8. 联接球罩。



安装与连接

安装 (QNV-6072R/6082R)

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

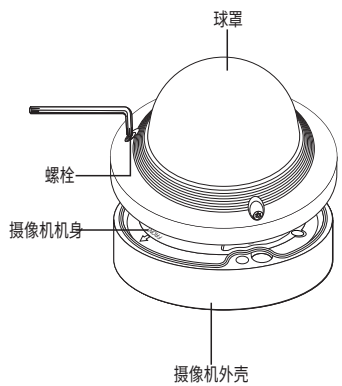
安装前注意事项

安装之前，请确保阅读下列说明：

- 用于安装它的区域(天花板或墙壁)的可承受重量必须至少 5 倍于包括安装支架在内的摄像机重量。
- 注意电缆夹在不适当的地点或电缆皮受损，以免发生火灾或产品破损。
- 为安全起见，让其他人远离安装地点。
  请立刻收拾放在安装地点下面的贵重品。
- 对于手动变焦镜头摄像机而言，变焦和缩放等功能应在安装前予以调整。调整这些功能时，务必要防止粘上异物。

拆解

1. 使用随附提供的 L 型扳手，按照逆时针方向拧松 3 颗紧固螺栓，即可卸下顶盖。

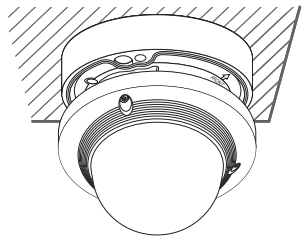


安装

1. 使用作为附件提供的模板，钻螺钉安装孔（直径为 6 毫米，最小深度为 55 毫米）并将作为附件提供的塑料锚栓牢牢插入底端。
2. 将底孔套入固定器也，然后插入并固定支架螺钉（M4.5xL50）。
3. 连接和排放必要的电缆，以免在安装摄像机时损坏或缠绕它们。
4. 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 23 页）

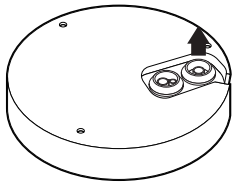
▪ 对于手动变焦镜头摄像机而言，变焦和缩放等功能应在安装前予以调整。调整这些功能时，务必要防止粘上异物。

5. 闭合球罩。
   ▪ 使用 L 型扳手拧紧固定螺栓可防止渗水。



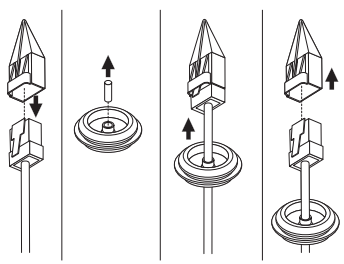
连接 LAN 线缆

1. 卸下球罩和壳体。
2. 如图所示，拉下并除去底部的电缆衬套。

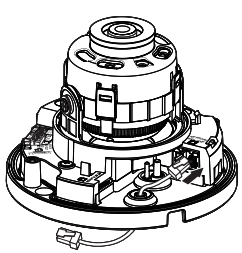


- 将适当的线缆保护衬套用于要连接的局域网线缆。
  - 基础摄像机:使用直径为5到6.5毫米的线缆。

3. 请拔下随附的1孔电缆衬套的突出部分。
4. 使用盖子安装程序将LAN电缆通过该孔。

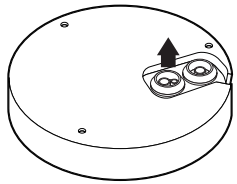


5. 将LAN电缆插入在步骤2中拆下电缆衬套后形成的孔里，然后将其连接到以太网终端。
6. 将LAN电缆上的衬套插入孔里。

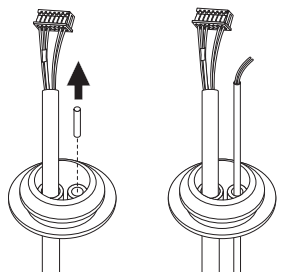


连接音频/警报线缆和电源线

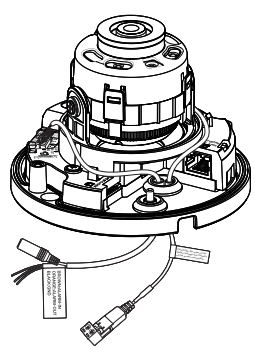
1. 卸下球罩和壳体。
2. 如图所示，拉下并除去底部的电缆衬套。



3. 拉下警报/音频电缆衬套上的小挤压部件，然后将电源线穿过衬套。



4. 将音频/警报电缆和电源电插入在步骤2中拆下电缆衬套后形成的孔里，然后将其分别连接到PCB的报警端子和电源接线端子。
5. 为防止电缆受损或挤压，在安装摄像机时，请将电缆挂在固定挂钩上。
6. 将报警/音频电缆上的衬套插入孔里。
7. 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 23 页）
8. 联接球罩。



安装与连接

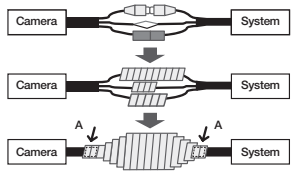
连接至非捆绑销售的适配器

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

1. 从壳体取下球罩，参考“**拆解**”部分。(第 20 页)
2. 使用机器螺钉将相机外壳固定到另售适配器上。
3. 连接和排放必要的电缆，以免在安装摄像机时损坏或缠绕它们。
4. 以“**拆解**”的相反顺序安装摄像机机身。
5. 请参阅“**调整摄像机的监视方向**”来调整镜头，使其面向所需的方向。(第 23 页)
6. 闭合球罩。
   - 使用 L 型扳手拧紧固定螺栓可防止渗水。

室外安装

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

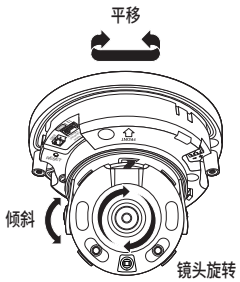


1. 连接电源、I/O、音频 和 LAN 电缆。
2. 用防水带(丁基橡胶)，包裹住黑色电缆套管（区域 A）和电缆连接区域，确保一半以上的丁基橡胶带重叠。

- 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

(QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R)



■ **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”。

- 平移的有效范围是共 350 度。
- 旋转的有效范围是共 355 度。
- 倾斜的有效范围是共 67 度。

■ 某些角度的图像会被摄像机壳遮住。

■ 在拆卸球罩和摄像机壳构成的整体后，不要用力转动焦点/缩放镜头。
否则可能会导致因马达故障而不能正确聚焦。

■ **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

■ 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。

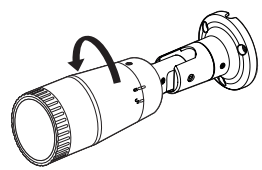
■ 请不要将Micro SD存储卡往逆方向强行插入,以免存储卡破损。

■ 下雨或湿度较高时，不建议插拔内存卡。

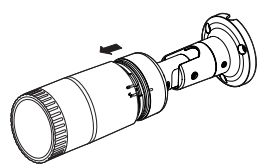
■ 产品盖子的拆卸应该在5分钟之内完成，否则会有内部结露的风险。

插入 Micro SD 存储卡 (QNO-6012R/6022R/6032R/6072R/6082R)

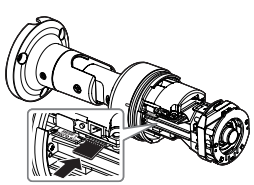
1. 按照开锁 [ ] 方向旋转前盖。



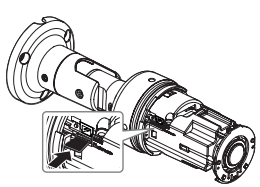
2. 将前盖拉出并与摄像机分开。



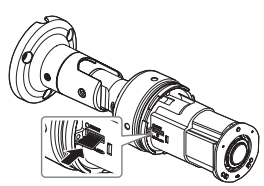
3. 按照图中箭头所示方向插入内存卡。



<QNO-6012R/6022R/6032R>



<QNO-6072R>

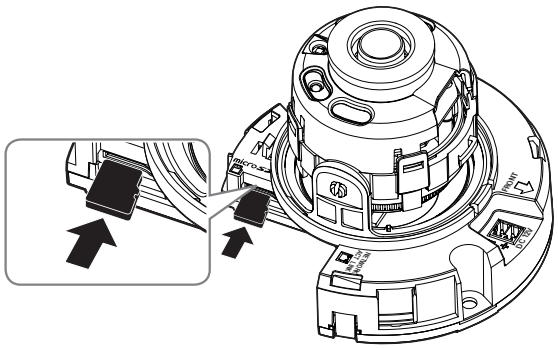


<QNO-6082R>

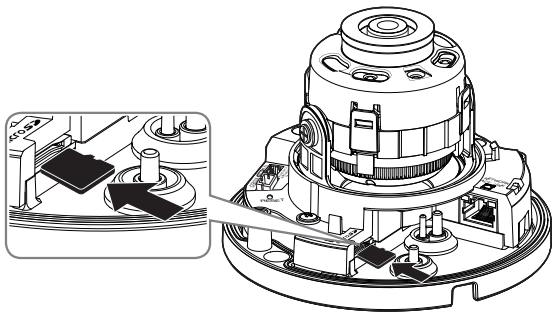
安装与连接

插入 Micro SD 存储卡 (QND-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R)

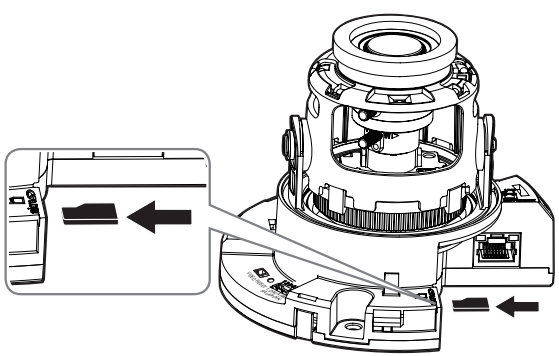
1. 将摄像机的圆顶盖分开。
2. 按照图中箭头所示方向插入内存卡。



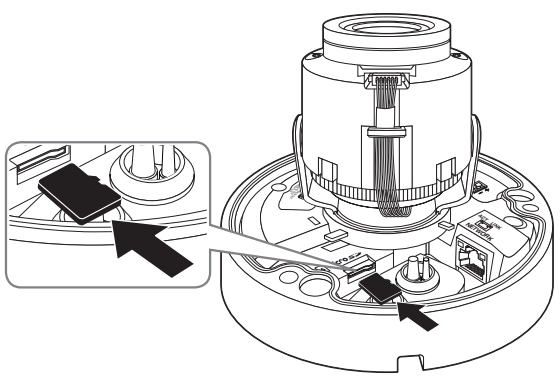
<QND-6012R/6022R/6032R>



<QNV-6012R/6022R/6032R>



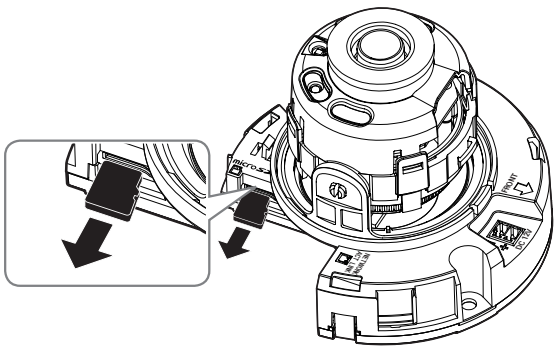
<QND-6072R/6082R>



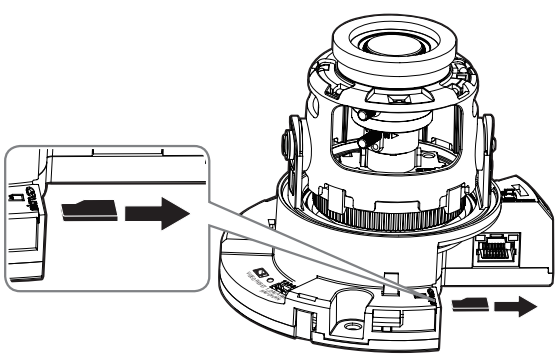
<QNV-6072R/6082R>

取出 Micro SD 存储卡

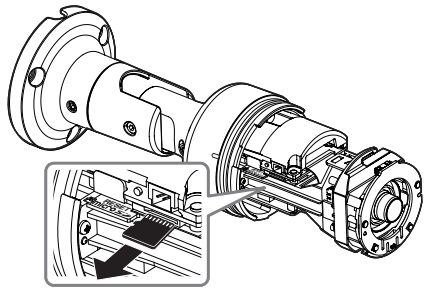
轻轻地按压存储卡露在外面的一端，依图示的方式从拆槽中弹出存储卡。



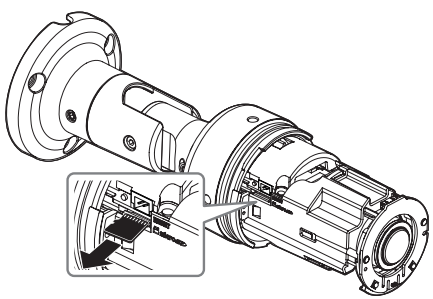
<QND-6012R/6022R/6032R>



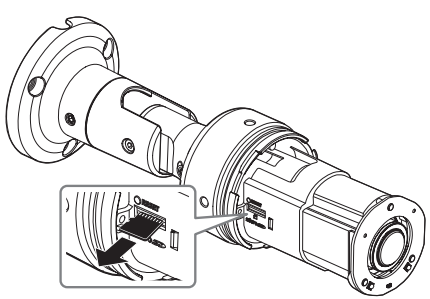
<QND-6072R/6082R>



<QNO-6012R/6022R/6032R>

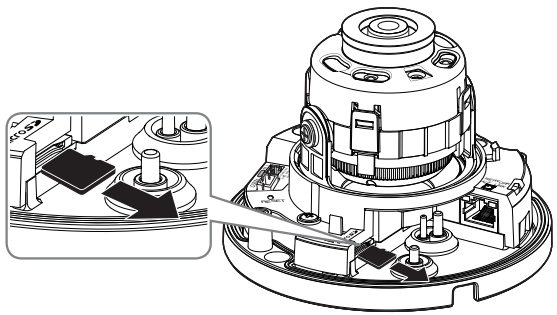


<QNO-6072R>

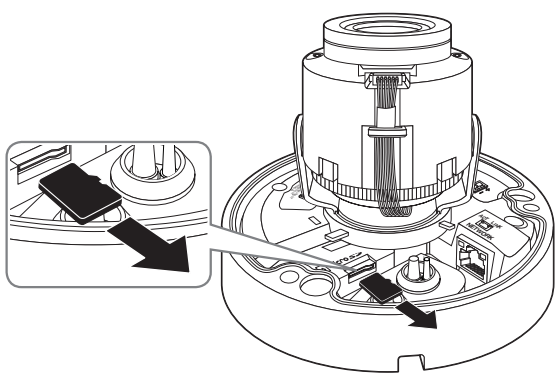


<QNO-6082R>

安装与连接



<QNV-6012R/6022R/6032R>

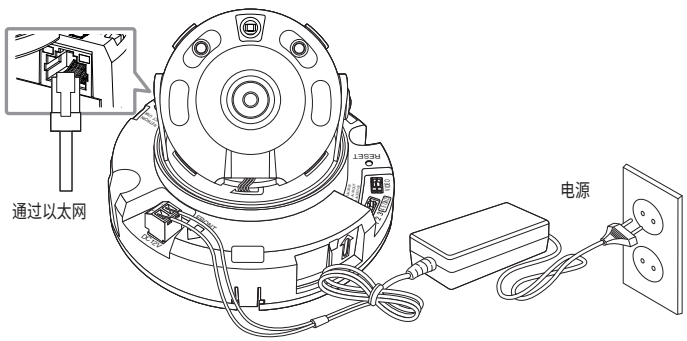


<QNV-6072R/6082R>

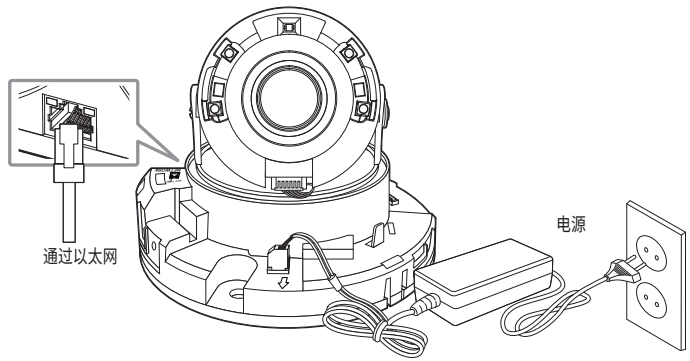
- 过度用力按Micro SD存储卡，可能会导致存储卡从卡槽中猛然弹出。
- 在移除 Micro SD 存储卡前，请在 <**存储器**> 中将设备设置为 <**关**>，然后按下 [**应用**] 按钮并关闭摄影机。
- 将数据保存在Micro SD存储卡时, 若取出存储卡或关掉电源，会导致已存数据的损失。

供电和联网

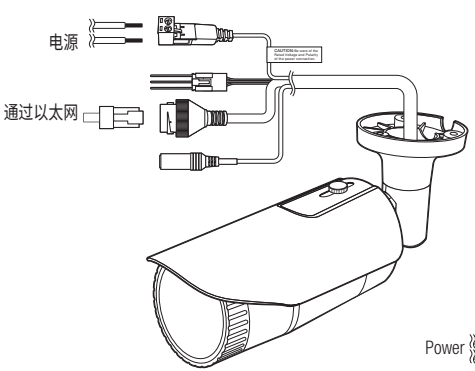
- 在将DC 12 V电源插头插入插座之前，请先安装接线盒。



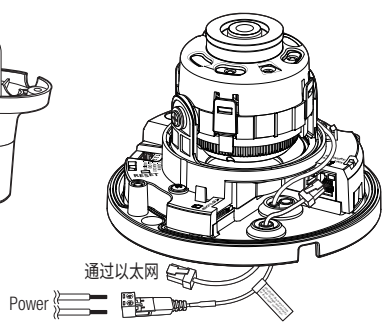
<QND-6012R/6022R/6032R>



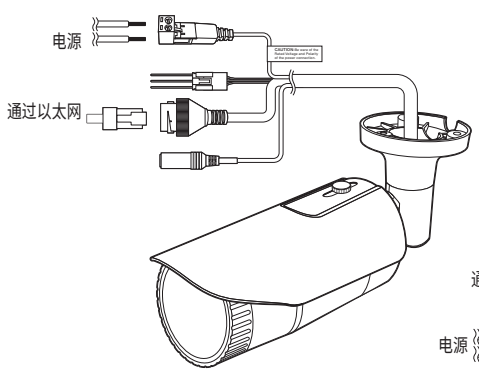
<QND-6072R/6082R>



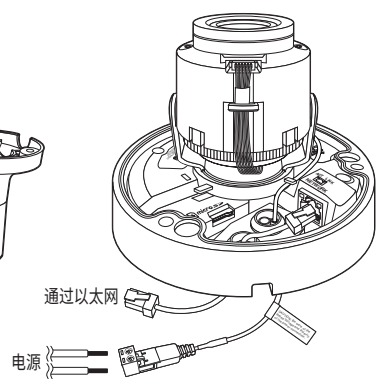
<QNO-6012R/6022R/6032R>



<QNV-6012R/6022R/6032R>



<QNO-6072R/6082R>



<QNV-6072R/6082R>

安装与连接

以太网连接

将以太网电缆连接到本地网络或互联网。

电源

使用螺丝刀将每股电源线 (+, –) 连接至摄像机的相应电源端口。

- 如果同时打开PoE和DC 12V的电源，则设备电源将使用DC 12V电源。
  - 您也可以使用具有 PoE 功能的路由器为摄像机供电。
  - 使用符合 IEEE 802.3af 协议的 PoE。
  - 仅可使用 PoE 和 DC 12V 的电源之一。
- 在连接电源线时，切勿弄反极性。
- 如果要连接外部设备，则必须先关闭外部设备再继续进行。

每个型号的电源电缆规格

对于 DC 12V 输入：

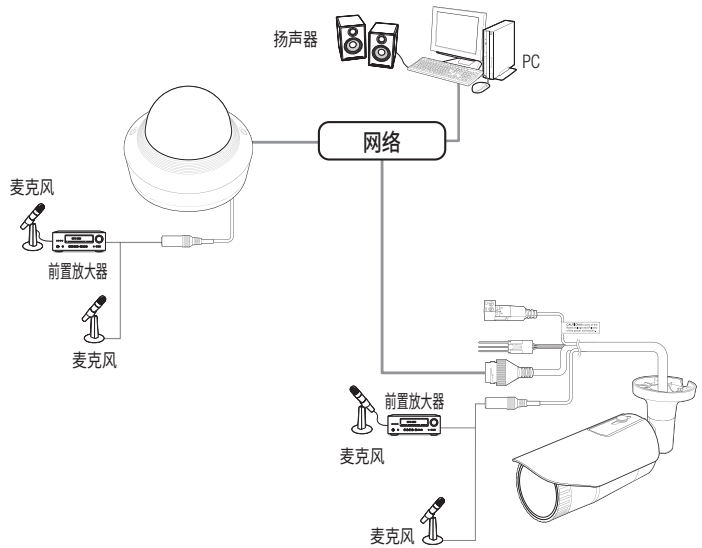
股线类型 (AWG)	#18	#20	#22
型号	电缆长度(最大)		
QND-6072R/6082R, QNV-6072R/6082R	30米	26米	16米
QNO-6072R/6082R	30米	26米	16米
QND-6012R/6022R/6032R, QNV-6012R/6022R/6032R	30米	26米	16米
QNO-6012R/6022R/6032R	30米	26米	16米

网线规格

名称	内含物	备注
连接器	RJ45	
以太网	10/100BASE-T	10/100 Mbps
电缆	超5e类	
最大距离	100米	直流电阻≦0.125Ω/m
PoE 支持	IEEE 802.3af	

- 如果使用非 5e 类标准的线缆，无法保证传输距离能达到 100 米。

连接音频输入



1. 将LINE OUT端口或麦克风连接至摄像机的AUDIO IN端口中。

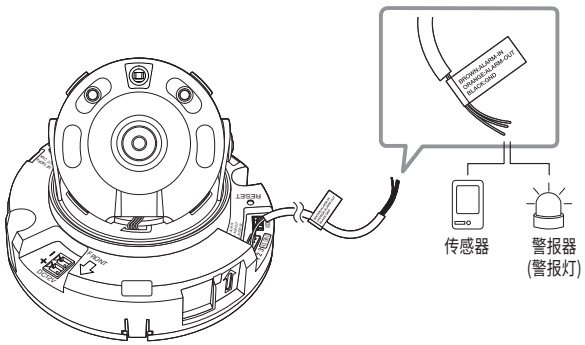
- QND型号仅支持内置麦克风。

2. 检查音频输入的规格。

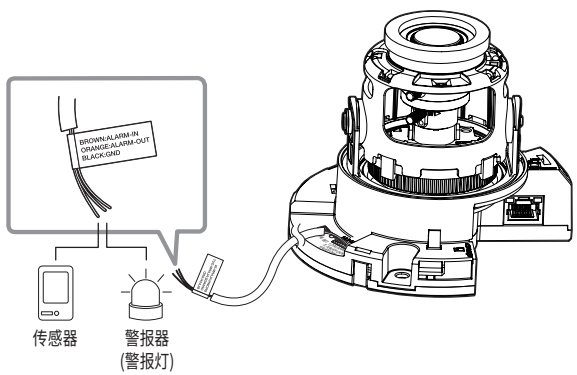
- **音频编解码器**
  - 音频输入：G.711 PCM(比特率:64kbps / 采样频率:8kHz)，G.726 ADPCM(比特率:16Kbps、24Kbps、32Kbps、40Kbps / 采样频率:8kHz)
- **全双工音频**
- **音频输入 (QND-6012R/6022R/6032R/6072R/6082R)**:内置麦克风
- **音频输入 (QNO-6012R/6022R/6032R/6072R/6082R, QNV-6012R/6022R/6032R/6072R/6082R)**:可选(麦克风/线路输入)，支持的电压:2.5VDC (4mA)，输入电阻:2K 欧姆

连接到 I/O 端口

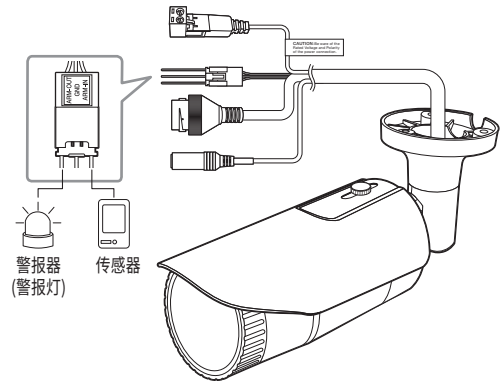
将警报输入/输出电缆连接到端口盒的相应端口。



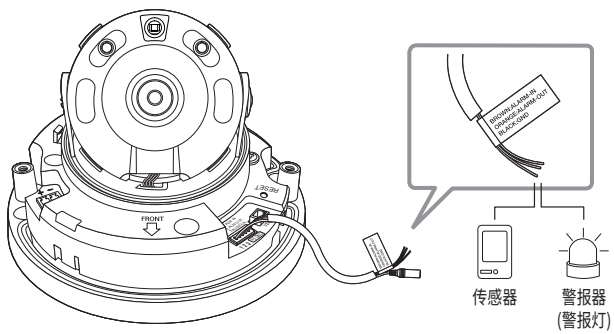
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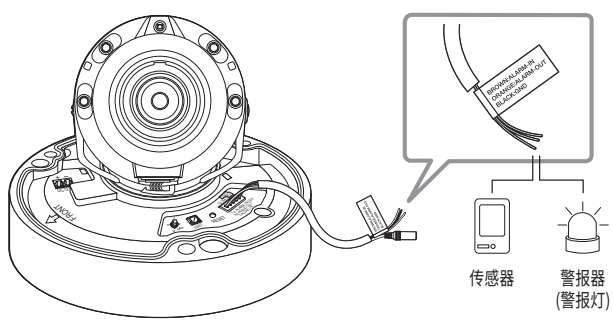
<QND-6072R/6082R>



<QNO-6012R/6022R/6032R/6072R/6082R>



<QNV-6012R/6022R/6032R>



<QNV-6072R>

安装与连接

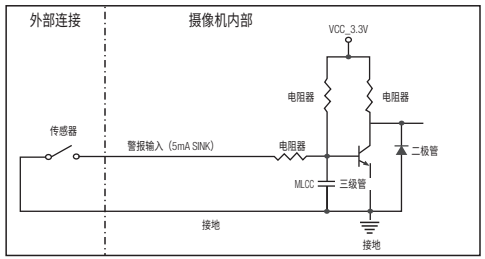
- ALARM-IN：用于连接警报输入传感器或外部日夜传感器。
- ALARM-OUT：用于连接警报输出信号。
- GND：警报输入/输出信号的公共端。

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

连接外接传感器

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

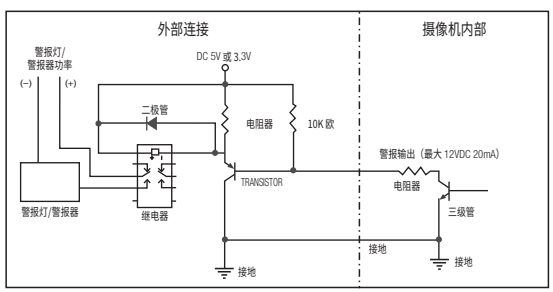
警报输入线路图



要连接警报输出

如果使用开路集电极方法连接超出电压和电流规格的设备（如闪光灯和警报器），它可能导致故障。
在连接超出电压和电流规格的设备时，参考下面的警报输出连接线路图。

警报输出线路图



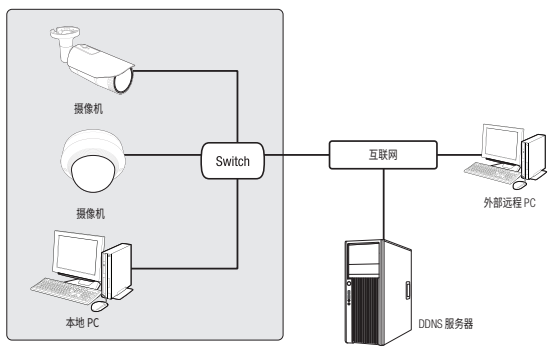
网络连接和设置

可根据您的网络配置来设置网络的设定。

在LAN环境下直接安装摄像机

连接局域网内的本地 PC 和摄像机

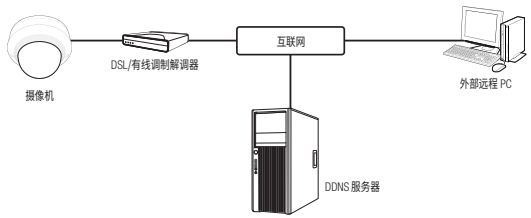
1. 启动本地 PC 上的Web浏览器。
2. 在浏览器地址栏中输入要访问的摄像机IP地址。



<局域网>

- 在正确设置防火墙或端口转发前，局域网外部的远程互联网 PC 可能无法连接安装于内部网的摄像机。
  在此情况下，联系网络管理员解决问题。
- 在IP安装程序中，您可以使用初始密码“4321”来设置IP地址、子网掩码、网关、HTTP端口、VNP端口或IP类型。在更改网络接口后，为了提高安全性，请访问Web查看器并更改密码。
- 出货时, 摄像机被设置为DHCP服务器自动分配IP地址。
  如果没有可用的 DHCP 服务器，则会将 IP 地址设置为 192.168.1.100。
  要更改 IP 地址，请使用 IP Installer。
  有关 IP Installer 使用的详细信息，请参阅“**静态 IP 设置**”。(第 32 页)

将摄像机直接连接至基于 DHCP 的 DSL/有线电视网调制解调器

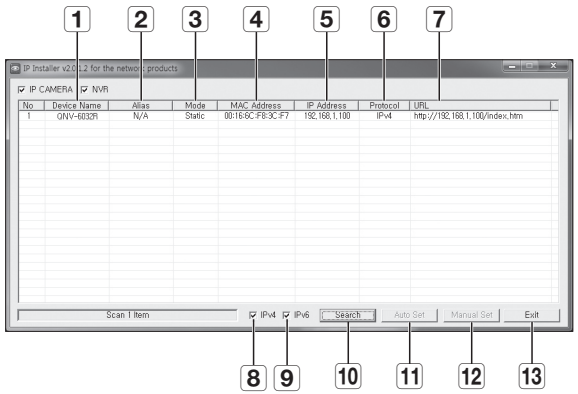


1. 直接将用户 PC 与网络摄像机连接。
2. 运行 IP Installer 并更改摄像机的 IP 地址，以便可以使用桌面上的 Web 浏览器连接至互联网。
3. 使用Web浏览器连接至 Web Viewer。
4. 移至 [**设置**] 页面。
5. 移至 [**网络**] – [**DDNS**] 并配置 DDNS 设置。
6. 移至 [**Basic**] – [**IP & 端口**]，并将网络类型设置为 [**DHCP**]。
7. 将摄像机与用户PC分开, 并直接连接到调制解调器。
8. 重新启动摄像机。

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

网络连接和设置

IP安装器按钮的名称和功能



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

- 请使用最新版本的IP安装程序。可以从 Hanwha Techwin网站下载最新版本。
- 如使用 Windows 8.1 作为支持 OS，建议使用 Wisenet 设备管理器 (Wisenet Device Manager)，而不是 IP Wisenet。访问韩华科技 (Hanwha Techwin) 网站 (http://www.hanwha-security.com) 上的 **<技术指南>** - **<在线工具>**即可下载 Wisenet 设备管理器程序。

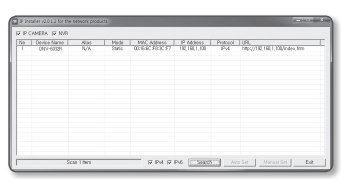
静态 IP 设置

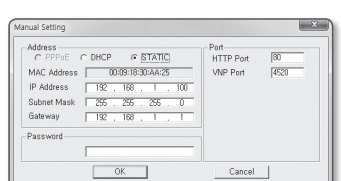
手动网络设置

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。

1. 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。
2. 单击 [**Manual Set**]。
   Manual Setting 对话框将会出现。
   摄像机的 **<IP Address>**、**<Subnet Mask>**、**<Gateway>**、**<HTTP Port>** 和 **<VNP Port>** 均显示为预设值。
3. 在 **<Address>** 窗格中，提供必需的信息。
   - MAC (Ethernet) Address：印在摄像机标签上的 MAC 地址会自动显示，不需要用户设置。



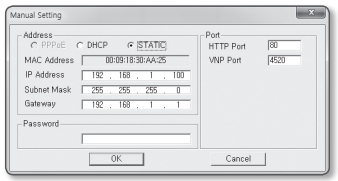


- 只有在未选中 DHCP 的情况下才能设置 IP 相关参数。

如果不使用IP路由器

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

4. 在 <Port> 窗格中，提供必需的信息。
   - HTTP Port：用于使用Web浏览器访问摄像机，默认值为 80。
   - VNP Port：用于控制视频信号传输，默认值为 4520。
5. 输入密码。
   输入用来访问摄像机的“admin”帐户的密码。



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

6. 单击 [OK]。
   将完成手动网络设置。

如果使用IP路由器

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



- 设置可能因连接的IP路由器型号而异。
  有关详细信息，请参阅适用路由器的用户手册。
- 如需IP路由器的正向端口的更多信息，请参阅“**路由器端口设置**”。(第 34 页)

如果IP路由器连接了多个摄像机

分别设置摄像机的IP相关项目和Port相关项目。

例)

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

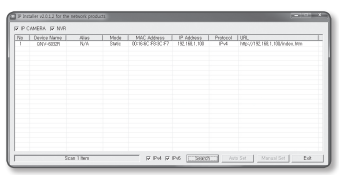
- 如果 <HTTP Port> 设置为除 80 以外的值，您必须在Web浏览器的地址栏中提供 <Port> 号，才能访问摄像机。
  例) http://IP address: HTTP Port
  http://192.168.1.100:8080

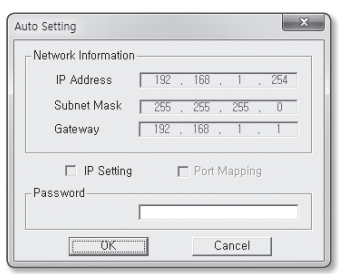
自动网络设置

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

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

1. 从搜索列表中选择一个摄像机。
   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。
2. 单击 [Auto Set]。
   Auto Setting 对话框将会出现。
   显示自动搜索到的<IP Address>、<Subnet Mask>和 <Gateway>。
3. 输入密码。
   输入用来访问摄像机的“admin”帐户的密码。





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

4. 单击 [OK]。
   将完成自动网络设置。

网络连接和设置

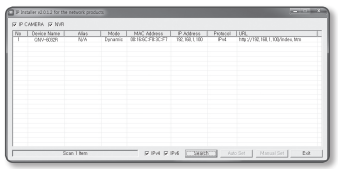
动态 IP 设置

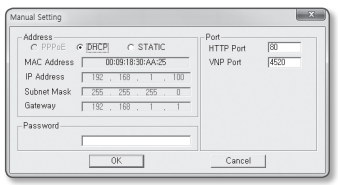
动态 IP 环境设置

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

检查动态 IP

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



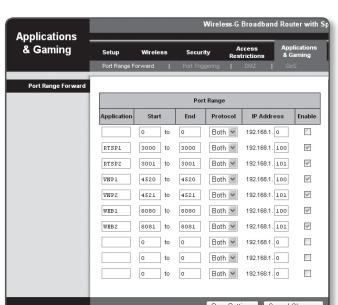


路由器端口设置

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

手动端口设置

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



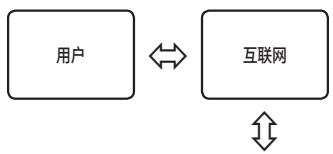
3. 完成后，单击 [Save Settings]。
   将保存设置。

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

设置多个网络摄像机的端口范围前移

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

当摄像机 1和摄像机 2连接至同一路由器时：



IP路由器			
开始	结束	协议	IP 地址
3000	3000	TCP/UDP	192.168.1.100
3001	3001	TCP/UDP	192.168.1.101
4520	4520	TCP/UDP	192.168.1.100
4521	4521	TCP/UDP	192.168.1.101
8080	8080	TCP/UDP	192.168.1.100
8081	8081	TCP/UDP	192.168.1.101

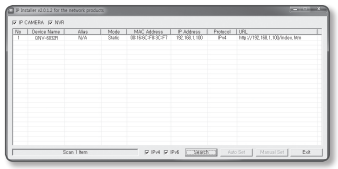
摄像机 1 (192.168.1.100)	
HTTP 端口	8080
设备端口	4520
RTSP 端口	3000

摄像机 2 (192.168.1.101)	
HTTP 端口	8081
设备端口	4521
RTSP 端口	3001

- 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“设置 → 网络 → 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。
   Web浏览器将启动，并连接到摄像机。



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

从远程 PC 通过互联网连接到摄像机

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

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

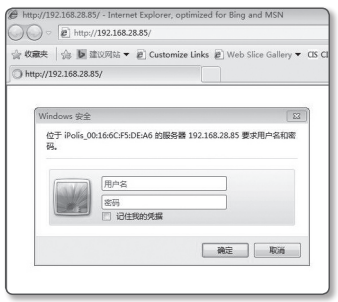
■ 要了解如何注册 DDNS 的信息，请参阅网络设置指南。

web 查看器

连接到摄像机

通常，您应该

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



如果 HTTP 端口为除 80 以外的值

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

使用 URL

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

▪ 在只有Local网的环境下，无法访问摄像机。

通过 UPnP 连接

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

通过 Bonjour 连接

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

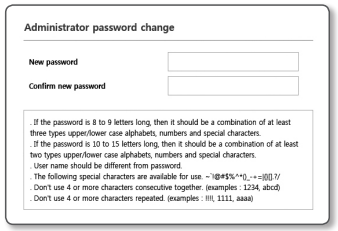
检查 DDNS 地址

如摄像机直接正确连接至基于 DHCP 的线缆调制解调器或 DSL 调制解调器，每次尝试连接至 ISP（所订阅的公司）时，IP 地址都会变化。
在这种情况下，将不会通知您 IP 地址已被 DDNS 更改。

一旦您向 DDNS 服务器注册了基于动态 IP 的设备，当尝试访问该设备时，就可以轻松检查更改的 IP。
要向 <**DDNS**> 服务器注册您的设备，请访问 http://ddns.hanwha-security.com 并先注册您的设备，然后将 Web Viewer 的 <**网络**> - <**DDNS**> 设置为 <**Wisenet DDNS**>，在<**产品ID**>上输入已在DDNS服务器上所注册的产品ID。

密码设置

首次访问产品时，必须先注册登录密码。
出现“密码更改”窗口时，输入新密码。

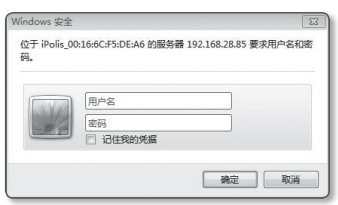


- 对于 8 到 9 位的新密码，必须至少使用下列 3 种类型：大写字母/小写字母、数字和特殊字符。对于 10 到 15 位的密码，必须至少使用上述两种类型。
  - 允许使用的特殊字符为 : ~`!@#$%^*()_-+=|{}[].?/
- 为了获得较高的安全性，建议您不要重复使用相同的字符作为密码，也不要使用连续的键盘输入作为密码。
- 如果您丢失了密码，可按住[RESET]按钮初始化该产品。因此请使用记事簿写下或记住您的密码以防丢失。

登录

每当访问摄像机时，登录窗口都会出现。
输入用户 ID 和密码以访问摄像机。

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



- 因视频数据没加密，访问摄像机网络查看器时应格外注意。

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

设置摄像机WEB查看器

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

附录

规格 (QND-6012R/6022R/6032R, QNV-6012R/6022R/6032R, QNO-6012R/6022R/6032R)

名称		功能		
		QND-6012R/6022R/6032R	QNV-6012R/6022R/6032R	QNO-6012R/6022R/6032R
视频	成像设备	1/2.8" 2MP CMOS		
	有效像素数	1920(水平) x 1080(垂直)		
	最低照度	QND-6012R/6032R/QNV-6012R/6032R/QNO-6012R/6032R 彩色 : 0.1 Lux (F2.0, 1/30 秒), 黑白 : 0 Lux (红外灯开启) QND-6022R/QNV-6022R/QNO-6022R 彩色 : 0.1 Lux (F1.6, 1/30 秒), 黑白 : 0 Lux (红外灯开启)		
	视频输出	CVBS : 1.0 Vp-p / 75Ω 复合, 720x480(N), 720x576(P), 供安装使用		
镜头	焦距(变焦比率)	QND-6012R/QNV-6012R/QNO-6012R : 2.8mm 定焦镜头 QND-6022R/QNV-6022R/QNO-6022R : 4mm 定焦镜头 QND-6032R/QNV-6032R/QNO-6032R : 6mm 定焦镜头		
	最大孔径比	QND-6012R/6032R/QNV-6012R/6032R/QNO-6012R/6032R : F2.0 QND-6022R/QNV-6022R/QNO-6022R : F1.6		
	视野角度	QND-6012R/QNV-6012R/QNO-6012R : H: 113.74° / V: 61.5° / D: 134.45° QND-6022R/QNV-6022R/QNO-6022R : H: 87.6° / V: 46.4° / D: 104.5° QND-6032R/QNV-6032R/QNO-6032R : H: 52.8° / V: 30.3° / D: 60.4°		
	聚焦控制	固定焦点		
平移/倾斜/旋转	平移/倾斜/旋转范围	0°~350° / 0°~67° / 0°~355°	0°~350° / 0°~67° / 0°~355°	-
操作	夜间可视距离	20m(65.62ft)	QNO-6012R/QNV-6012R : 20m(65.62ft) QNO-6022R/QNV-6022R : 25m(82.02ft) QNO-6032R/QNV-6032R : 30m(98.42ft)	
	摄像机标题	最多显示 85 个字符		
	日夜	自动 (ICR)		
	背光补偿	BLC, WDR, SSDR		

名称		功能		
		QND-6012R/6022R/6032R	QNV-6012R/6022R/6032R	QNO-6012R/6022R/6032R
操作	宽动态	120dB		
	数字降噪	SSNR		
	移动探测	4个, 多边形区域		
	隐私遮挡	6个, 支持四边形		
	增益控制	支持		
	白平衡	自动追踪白平衡/自动控制白平衡/手动/室内/室外		
	LDC	支持		
	电子快门速度	最小/最大/防闪烁 (1/5~1/12,000 秒)		
	视频旋转	翻转、镜像、过道 (90°/270°)		
	智能视频分析	散焦检测, 方向检测, 运动检测, 出入检测, 篡改, 虚拟线		
	警报输出入	输入1个/输出1个		
	警报触发	智能分析、网络断开连接、警报输入		
	报警事件	• 通过FTP E-Mail发送和上传文件 • 通过E-Mail报警事件 • 发生警报触发时, 记录到SD/SDHC/SDXC存储或NAS • 外部警报输出		
	音频输入	内置麦克风	可选择 (麦克风输入/线路输入) 供电电压 : 2.5VDC (4mA), 输入阻抗 : 2K欧姆	
网络	以太网	RJ-45 (10/100BASE-T)		
	视频压缩格式	H.265/H.264 : 主要/高、MJPEG		
	分辨率	1920 x 1080, 1280 x 960, 1280 x 720, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360		
	最大帧速率	H.265/H.264 : 最大 30fps/25fps (60Hz/50Hz) MJPEG : 最大 15fps/12fps (60Hz/50Hz)		
	Smart Codec(智能编解码器)	WiseStream Ⅱ		
	视频质量调整	H.264/H.265 : 目标比特率级别控制 MJPEG : 画质水平控制		

名称		功能		
		QND-6012R/6022R/6032R	QNV-6012R/6022R/6032R	QNO-6012R/6022R/6032R
网络	比特率控制方法	H.264/H.265：CBR 或 VBR Motion JPEG：VBR		
	串流	同时传输能力：最多可同时传输3种串流传输 传输方式：单播/组播 最大同时在线用户数：6（单播模式）		
	音频压缩方式	可选 G.711 μ-law / G.726 G.726 (ADPCM) 8kHz, G.711 8kHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps		
	协议	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP		
	安全	HTTPS(SSL)认证 摘要认证 IP 地址过滤 用户访问日志 802.1X身份认证 (EAP-TLS, EAP-LEAP)		
	边缘存储	Micro SD/SDHC/SDXC 1 插槽 128 GB		
	应用程序编程接口	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet开放平台		
	语言	英语、韩国、法语、德语、西班牙语、意大利语、中文、俄语、日语、瑞典语、葡萄牙语、捷克语、波兰语、土耳其语、荷兰语、匈牙利语、希腊语		
	Web 查看器	支持的操作系统 : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14 建议使用的浏览器 : Google Chrome 支持的 web 浏览器 : WMS Explore11, MS Edge, Mozilla Firefox 仅支持 Wndows 64), Apple Safari (仅支持 Mac OS X)		
	储存	512MB RAM, 256MB Flash		
环境	工作温度/湿度	-10°C ~ +55°C (14°F ~ +131°F) / 低于 90% RH	-30°C ~ +55°C (-40°F ~ +131°F) / 低于 90% RH ※ 启动温度：-20°C以上	
	贮藏温度/湿度	-30°C ~ +60°C (-22°F ~ +140°F) / 低于 90% RH		
	标准认证	-	IP66, IK10	

名称		功能		
		QND-6012R/6022R/6032R	QNV-6012R/6022R/6032R	QNO-6012R/6022R/6032R
电气	输入电压	PoE(IEEE802.3af, Class3), 12VDC		
	功耗	PoE: 最大 7.4 W, 标准值 6 W 12VDC: 最大 6.4 W, 标准值 5.1 W	PoE: 最大 7.4 W, 标准值 6 W 12VDC: 最大 6.4 W, 标准值 5.1 W	PoE: 最大 7 W, 标准值 5.2 W 12VDC: 最大 6.1 W, 标准值 4.5 W
外观	颜色/材料	白色/塑料	白色/铝	深灰色/铝
	RAL编码	RAL9003		-
	产品尺寸/重量	Ø110.0 x 86.0 mm (Ø4.33 x 3.39"), 255 g	Ø120.3 x 91.7 mm (Ø4.74 x 3.61"), 510 g	Ø70.0 x 246.0 mm (Ø4.33 x 3.39"), 700 g

附录

规格 (QND-6072R/6082R, QNV-6072R/6082R, QNO-6072R/6082R)

名称		功能		
		QND-6072R/6082R	QNV-6072R/6082R	QNO-6072R/6082R
视频	成像设备	1/2.8" 2MP CMOS		
	有效像素数	1920(水平) x 1080(垂直)		
	最低照度	彩色 : 0.095 Lux (F1.6, 1/30 秒) 黑白 : 0 Lux (红外灯开启)		
	视频输出	CVBS : 1.0 Vp-p / 75Ω 复合, 720x480(N), 720x576(P), 供安装使用		
镜头	焦距(变焦比率)	QND-6072R/QNO-6072R/QNV-6072R : 3.2~10mm(3.1x) 手动变焦镜头 QND-6082R/QNO-6082R/QNV-6082R : 3.2~10mm(3.1x) 电动变焦镜头		
	最大孔径比	F1.6(广角) ~ F2.9(望远)		
	视野角度	H: 109.0°(广角) ~ 33.2°(望远) / V: 57.4°(广角) ~ 18.7°(望远) / D: 132.0°(广角) ~ 38.0°(望远)		
	镜头类型	QND-6072R/QNV-6072R/QNO-6072R : 手动 QND-6082R/QNV-6082R/QNO-6082R : 简单对焦		
平移/倾斜/旋转	平移/倾斜/旋转范围	0°~350° / 0°~67° / 0°~355°	0°~350° / 0°~67° / 0°~355°	-
操作	夜间可视距离	20m(65.62ft)	30m(98.42ft)	
	摄像机标题	最多显示 85 个字符		
	日夜	自动 (ICR)		
	背光补偿	BLC, WDR, SSDR		

名称		功能		
		QND-6072R/6082R	QNV-6072R/6082R	QNO-6072R/6082R
操作	宽动态	120dB		
	数字降噪	SSNR		
	移动探测	4个, 多边形区域		
	隐私遮挡	6个, 支持四边形		
	增益控制	低/中/高		
	白平衡	自动追踪白平衡/自动控制白平衡/手动/室内/室外		
	LDC	支持		
	电子快门速度	最小/最大/防闪烁 (1/5~1/12,000 秒)		
	视频旋转	翻转、镜像、过道 (90°/270°)		
	智能视频分析	散焦检测, 方向检测, 运动检测, 出入检测, 篡改, 虚拟线		
	警报输出入	输入1个/输出1个		
	警报触发	智能分析、网络断开连接、警报输入		
	报警事件	• 通过FTP E-Mail发送和上传文件 • 通过E-Mail报警事件 • 发生警报触发时, 记录到SD/SDHC/SDXC存储或NAS • 外部警报输出		
	音频输入	内置麦克风	可选择 (麦克风输入/线路输入) 供电电压:2.5VDC (4mA), 输入阻抗:2K欧姆	
网络	以太网	RJ-45 (10/100BASE-T)		
	视频压缩格式	H.265/H.264 : 主要/高、MJPEG		
	分辨率	1920 x 1080, 1280 x 960, 1280 x 720, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360		
	最大帧速率	H.265/H.264 : 最大 30fps/25fps (60Hz/50Hz) MJPEG : 最大 15fps/12fps (60Hz/50Hz)		
	Smart Codec(智能编解码器)	WiseStream Ⅱ		
	视频质量调整	H.264/H.265 : 目标比特率级别控制 MJPEG : 画质水平控制		

名称		功能		
		QND-6072R/6082R	QNV-6072R/6082R	QNO-6072R/6082R
网络	比特率控制方法	H.264/H.265：CBR 或 VBR Motion JPEG：VBR		
	串流	同时传输能力:最多可同时传输3种串流传输 传输方式:单播/组播 最大同时在线用户数:6(单播模式)		
	音频压缩方式	可选 G.711 μ-law / G.726 G.726 (ADPCM) 8kHz, G.711 8kHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps		
	协议	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP		
	安全	HTTPS(SSL)认证 摘要认证 IP 地址过滤 用户访问日志 802.1X身份认证 (EAP-TLS, EAP-LEAP)		
	边缘存储	Micro SD/SDHC/SDXC 1 插槽 128 GB		
	应用程序编程接口	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet开放平台		
	语言	英语、韩国、法语、德语、西班牙语、意大利语、中文、俄语、日语、瑞典语、葡萄牙语、捷克语、波兰语、土耳其语、荷兰语、匈牙利语、希腊语		
	Web 查看器	支持的操作系统 : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14 建议使用的浏览器 : Google Chrome 支持的 web 浏览器 : WMS Explore11, MS Edge, Mozilla Firefox 仅支持 Wndows 64), Apple Safari (仅支持 Mac OS X)		
	储存	512MB RAM, 256MB Flash		
环境	工作温度/湿度	-10°C ~ +55°C (14°F ~ +131°F) / 低于 90% RH	-30°C ~ +55°C (-40°F ~ +131°F) / 低于 90% RH ※ 启动温度:-20°C以上	
	贮藏温度/湿度	-30°C ~ +60°C (-22°F ~ +140°F) / 低于 90% RH		
	标准认证	-	IP66, IK10	

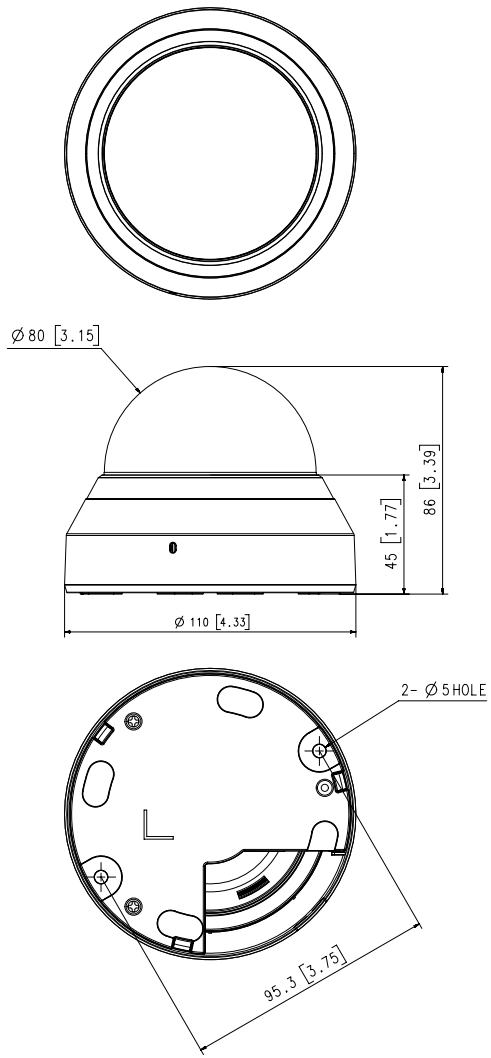
名称		功能		
		QND-6072R/6082R	QNV-6072R/6082R	QNO-6072R/6082R
电气	输入电压	PoE(IEEE802.3af, Class3), 12VDC		
	功耗	PoE: 最大 7.5 W, 标准值 6 W 12VDC: 最大 6.5 W, 标准值 5.1 W	PoE: 最大 7.5 W, 标准值 6 W 12VDC: 最大 6.5 W, 标准值 5.1 W	PoE: 最大 7.4 W, 标准值 5.4 W 12VDC: 最大 6.5 W, 标准值 4.8 W
外观	颜色/材料	白色/塑料	白色/铝	深灰色/铝
	RAL编码	RAL9003	RAL9003	-
	产品尺寸/重量	Ø119.8 x 98.8 mm (Ø4.72 x 3.89"), 320 g	Ø137.0 x 106.1 mm (Ø5.39 x 4.18"), 710 g	QNO-6072R: Ø70.0 x 246.0 mm (Ø4.33 x 3.39"), 730 g QNO-6082R: Ø78.0 x 259.8 mm (Ø3.07 x 10.2"), 900 g

附录

产品视图 (QND-6012R/6022R/6032R/6072R/6082R)

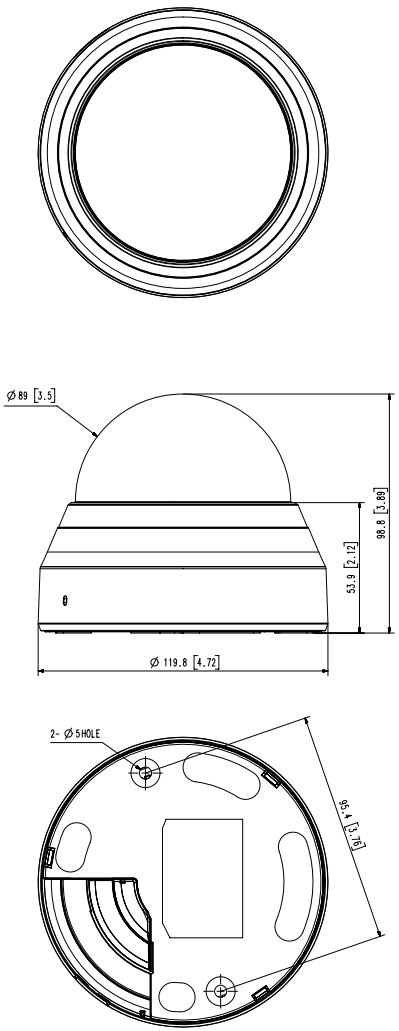
QND-6012R/6022R/6032R

单位 :毫米[英寸]



QND-6072R/6082R

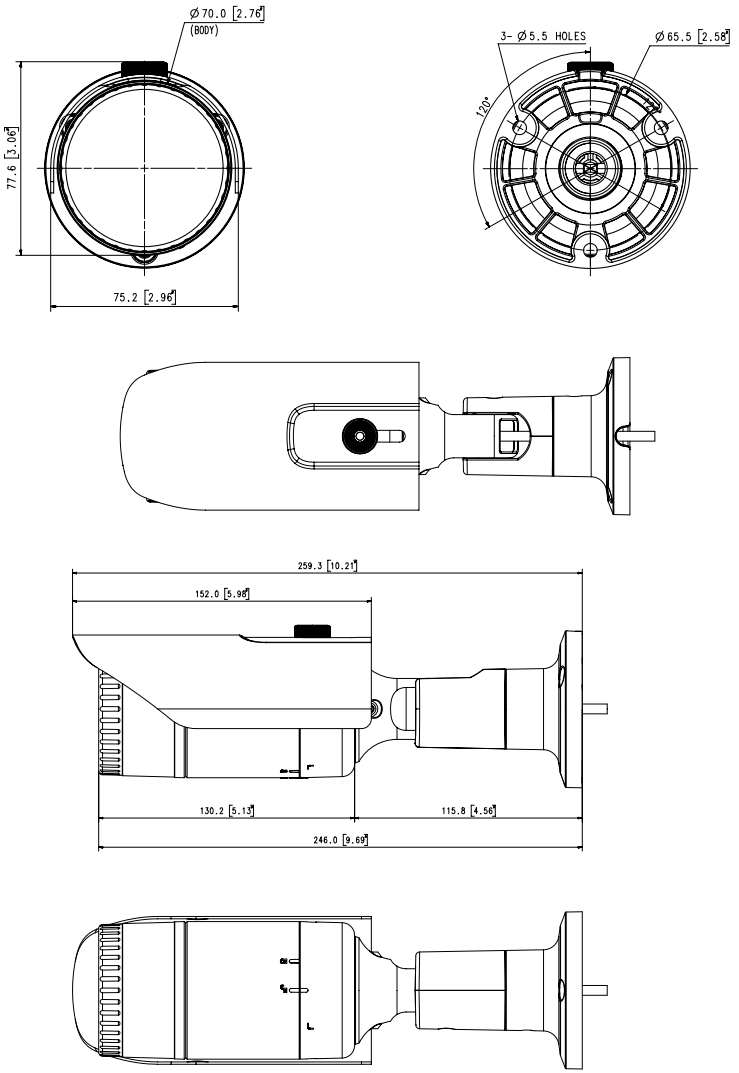
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产品视图 (QNO-6012R/6022R/6032R/6072R/6082R)

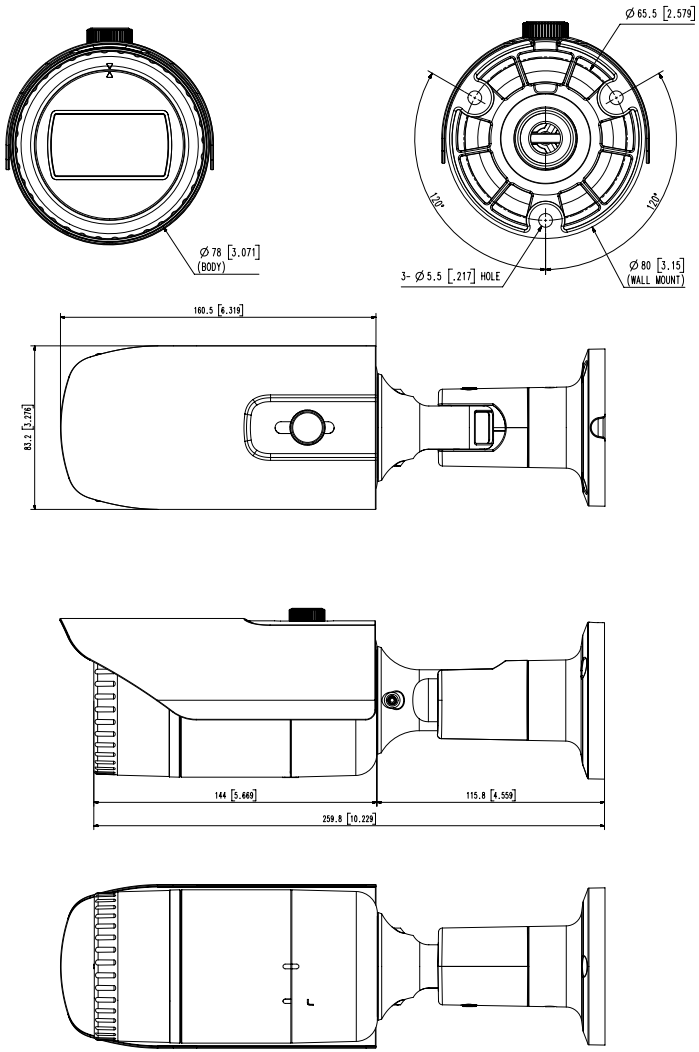
QNO-6012R/6022R/6032R/6072R

单位 :毫米[英寸]



QNO-6082R

单位 :毫米[英寸]

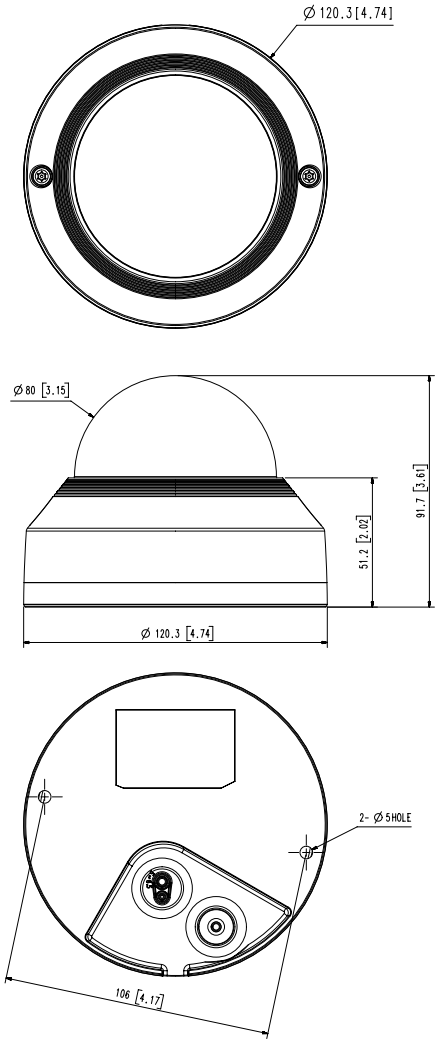


附录

产品视图 (QNV-6012R/6022R/6032R/6072R/6082R)

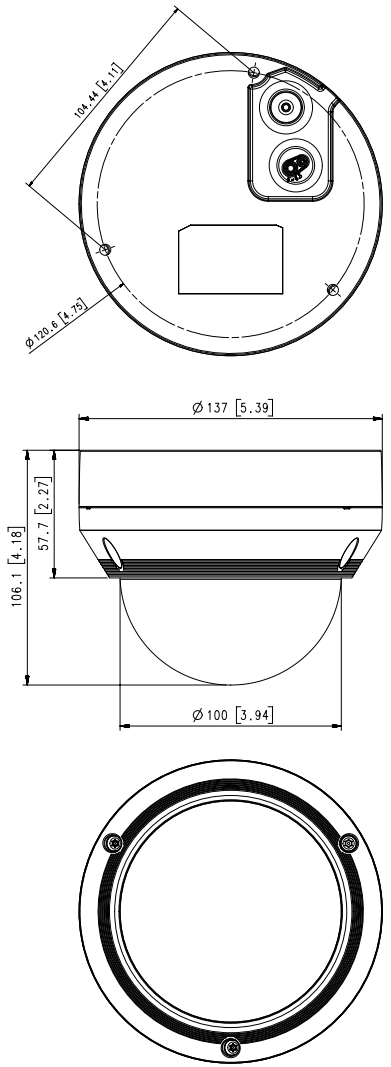
QNV-6012R/6022R/6032R

单位 :毫米[英寸]



QNV-6072R/6082R

单位 :毫米[英寸]



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。
初次访问 web 查看器或将流连接至客户端时，不会显示任何视频。	• 可使用的配置文件的最大数量是 3。 如果您使用 4 个或更多配置文件，可能使连接中断。 示例）如先访问 MJPEG、H264 和 H265，然后再访问其他配置文件，将使连接中断。
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。
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。

故障	解决方法
<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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Base Kernel	GPL 2.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-4.3.0	GPL 2.0	
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ethtool-4.2	GPL 2.0	
mtd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtd-utils
mii-diag-2.11	GPL 2.0	
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wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
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Component Name	License	URL
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revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

Article 1. Scope of License Agreement

1. This License Agreement sets forth copyrights and the terms and conditions of use applicable to the source code of T-Kernel distributed by T-Engine Forum and any derivative work created therefrom.

Article 2. Definition

1. "T-Kernel" means a real-time operating system controlled and distributed by T-Engine Forum on behalf of the copyright holder thereof.

2. "Source Code" means a source program, including related comments and documentations, for the T-Kernel and the Ported Source Code defined in Article 2.8 which is registered with T-Engine Forum.

3. "Hardware-dependent Part" means the part of the Source Code which depends on hardware and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.

4. "Compiler-dependent Part" means the part of the Source Code which depends on compiler and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.

5. "Header File" means the part of the Source Code which contains definitions necessary to develop application programs.

6. "T-Engine Hardware" means the hardware which is manufactured in accordance with the T-Engine Hardware specifications or the µT-Engine Hardware specifications issued by T-Engine Forum, and registered with T-Engine Forum.

7. "Similar Hardware to T-Engine Hardware" means any hardware (including software which emulates hardware) other than that defined in Article 2.6 above, on which the T-Kernel can be operated.

8. "Ported Source Code" means a source program produced from the Source Code by modifying only its Hardwaredependent Part and/or Compiler-dependent Part to enable it to be operated on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware. The Ported Source Code which is registered with T-Engine Forum shall be included in the Source Code.

9. "Modified Source Code" means a source program modified from the Source Code for the purpose of improving its performance, increasing or decreasing its function, and the like. The Ported Source Code shall not be included in the Modified Source Code.

10. "Binary Code" means an executable code form which is created by compiling programs, which include all or part of the Source Code or the Modified Source Code.

11. "Derivative Work" means the Modified Source Code or the Binary Code.

12. "Embedded Product" means any product which operates with executable code form of the Source Code, the Modified Source Code or the Binary Code loaded on its hardware.

13. "End User" means a consumer who uses the Embedded Product.

14. "System Developer" means any person who develops the Embedded Product by itself or has a third party develop the same, and provides, whether with or without payment, the End User with the Embedded Product.

15. "Distributor of Modification" means any person who produces the Modified Source Code and, whether with or without payment, distributes the same to any third party.

16. "Patch for Modification" means a difference, program, system, or the like in order to create the Modified Source Code from the Source Code or the Binary Code thereof.

17. "Vicarious Execution of Patch Processing" means vicarious execution service to create the Modified Source Code applying the Patch for Modification to the Source Code or the Binary Code thereof.

18. "Source Code User" means a person who uses the Source Code.

19. "Distribution" means any of the following acts:

1. to transmit a work to a large number of specific persons through the Internet communication, broadcasting, and the like;

2. to transmit a work to the general public through the Internet communication, broadcasting, and the like automatically in response to a request from the public; and

3. to distribute a copy of a work to the general public or a large number of specific persons.

Article 3. Copyright

1. The copyrights of the Source Code shall be owned by Ken Sakamura.

Article 4. License of Source Code

1. As provided for in this Article, T-Engine Forum shall provide, and grant a license to use, the Source Code free of charge to any person who has taken the necessary procedure for registration as prescribed by T-Engine Forum and agreed to the T-License.

2. The Source Code shall be distributed exclusively by T-Engine Forum. Any person who obtains the Source Code under Article 4.1 above shall not make any re-Distribution of the Source Code.

3. In accordance with the license granted under Article 4.1 above, the Source Code User may perform the following acts:

1. to copy and/or modify the Source Code provided by T-Engine Forum hereunder for its own research, development and the like.

2. to run the Source Code provided by T-Engine Forum hereunder for its own research, development and the like.

3. to run the Source Code modified in accordance with the provision of Article 4.3 (1) above for its own research, development and the like.

4. to distribute the Binary Code created from the Source Code provided by T-Engine Forum hereunder or from the Source Code modified in accordance with the provision of Article 4.3 (1) above.

4. In accordance with the license granted under Article 4.1 above, the System Developer may perform the following acts:

1. to perform any and all acts set forth in the Article 4.3 above.

2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.

5. The Source Code User and the System Developer shall be obligated to give a notice that the Source Code is used, in such a way as separately specified by T-Engine Forum, when they use the Source Code or the Binary Code, or make the Binary Code available for the End User on the Embedded Product.

Article 5. Distribution of Modified Source Code

1. Any of A- members of T-Engine Forum may become the Distributor of Modification by obtaining the approval of T-Engine Forum through the registration procedure as prescribed by the Forum provided that only the department of the A- member which has taken the registration procedure may distribute the Modified Source Code in such a way as provided for in this Article as long as it holds the Amembership.

2. The Distributor of Modification may create the Modified Source Code based on the Source Code provided by T-Engine Forum and the Patch for Modification to be applied to create such Modified Source Code from the Source Code.

3. The Distributor of Modification shall, prior to the distribution, inform T-Engine Forum of and register a name and description of the Modified Source Code in such a way as specified by T-Engine Forum.

4. The Distributor of Modification shall determine the name of the Modified Source Code subject to the rules separately established by T-Engine Forum and publish an appropriate notice as required by the rules on the Patch for Modification and the Modified Source Code.

5. The Distributor of Modification may distribute the Modified Source Code to a third party, whether with or without payment, provided that the Distributor of Modification shall take the necessary measures to prohibit the third party from making the re-Distribution of the Modified Source Code.

6. Developer with the Patch for Modification. Provided, however, that the Distributor of Modification shall be obligated to confirm that the System Developer is the Source Code User duly licensed under Article 4.1.

7. The Distributor of Modification may perform the Vicarious Execution of Patch Processing for the System Developer.

8. The System Developer shall not distribute the Modified Source Code in further modified form to any third party as a stand-alone software product.

9. The System Developer may, under the same obligation as imposed in Article 4.5, make the Embedded Product available for the End User through use of the Patch for Modification distributed by the Distributor of Modification or the Derivative Works obtained through the Vicarious Execution of Patch Processing.

Article 6. Distribution and Registration of the Ported Source Code

1. The Source Code User and the System Developer may, whether with or without charge, distribute to any third party only the following parts of the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware:

1. The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.

2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.

2. Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

3. Any member of T-Engine Forum who requests the distribution mentioned in the preceding paragraph shall accede to the following conditions:

1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

2. The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.

3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.

4. In the event that T-Engine Forum accepts the request mentioned in Article 6.2, T-Engine Forum shall register and distribute the Ported Source Code as the Source Code for T-Kernel. Provided, however, that the Ported Source Code may be treated in the same way as the Modified Source Code until the time of registration hereunder.

5. The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

Article 7. Use for Other Purpose

1. Any use of the Source Code, the Modified Source Code or the Ported Source Code other than those stipulated in Articles 4, 5 and 6 shall be subject to the prior approval of T-Engine Forum.

Article 8. Limited Warranty

1. T-Engine Forum and the copyright holder of the Source Code warrant that the Source Code does not infringe third party's copyrights. Provided, however, that T-Engine Forum and the copyright holder of the Source Code make no warranty as to the Hardware-dependent Part and/or Compiler- dependent Part set forth in Article 6.2 in the Ported Source Code by any third party.

2. Neither T-Engine Forum nor the copyright holder of the Source Code warrants that the Source Code will fit for any particular purpose of the Source Code User.

3. Neither T-Engine Forum nor the copyright holder of the Source Code warrants that the Source Code does not infringe any third party's industrial property rights. In no event shall T-Engine Forum and the copyright holder of the Source Code be liable for any dispute which may arise between the Source Code User and a third party in connection with the third party's industrial property rights.

Article 9. Indemnity

1. Neither T-Engine Forum nor the copyright holder of the Source Code shall be liable for any damages (including, but not limited to, damages resulting from loss of profit, business interruption, loss of business information or any other pecuniary damage) arising out of use or impossibility of use of the Source Code, even if T-Engine Forum and the copyright holder have been informed of the possibility of such damages.

Article 10. Breach of Agreement

1. In case that T-Engine Forum considers that this License Agreement is breached or that the popularization of T-Kernel is obstructed, T-Engine Forum shall take measures to correct such breach or such obstruction, take measures on the ground of copyright infringement, or take any other necessary measures against the breaching person or the obstructing person, regardless of whether or not the said person is a member of T-Engine Forum.

2. In case of breach of this License Agreement by a member of T-Engine Forum, T-Engine Forum may take appropriate measures against the member; for example, the member is disqualified from membership, depending on what kind of breach has been committed by it.

3. Any legal dispute which may arise in relation to any breach of this License Agreement shall be subject to the exclusive jurisdiction of the Tokyo District Court.

Article 11. Governing Law and Language

1. This License Agreement shall be governed by and interpreted under the laws of Japan.

2. This License Agreement is executed in both Japanese text and English text provided that the Japanese text shall govern the interpretation and performance of this License Agreement.

Apache License 2.0

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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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Jean-loup Gailly Mark Adler

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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 (deflate format) and rfc1952.txt (gzip format).

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