

**WISeNeT**

# 网络摄像机

## 用户手册

LND-6010R/LND-6020R/LND-6030R/LND-6070R  
LNO-6010R/LNO-6020R/LNO-6030R/LNO-6070R  
LNV-6010R/LNV-6020R/LNV-6030R/LNV-6070R



# 网络摄像机 用户手册

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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. 本产品应由经认证的、带“2类”或“LPS”且额定电压为 PoE, 0.18A. 的电源装置供电。
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。



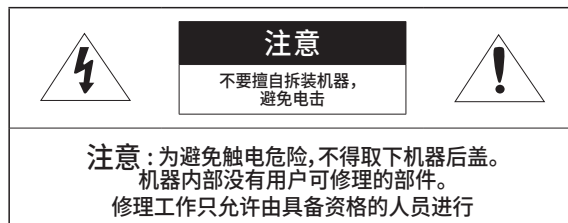
## 警告

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<br>(Pb) | 汞<br>(Hg) | 镉<br>(Cd) | 六价铬<br>Cr (VI) | 多溴联苯<br>(PBB) | 多溴二苯醚<br>(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。

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。

## 警告

为防止因红外灯受到伤害,请勿凝视工作灯。

仅适用于以下型号产品。

LND-6010R/LND-6020R/LND-6030R/LND-6070R

LNO-6010R/LNO-6020R/LNO-6030R/LNO-6070R

LVN-6010R/LNV-6020R/LNV-6030R/LNV-6070R

## 风险组 1

警告 产品发出红外线。  
请勿凝视工作灯

产品经过 IEC 62471 测试

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# 概述

## 推荐 PC 技术规格

- CPU：Intel(R) Core(TM) i7 3.4 GHz 或更高版本
  - 支持的操作系统：Windows, Mac OS X
  - 无插件 web 查看器  
支持的 web 浏览器：Google Chrome、MS Edge、Mozilla Firefox（仅 Window 64 位）、Apple Safari（仅 Mac OS X）
  - 有插件 Web 查看器  
支持的 web 浏览器：MS Explorer
  - VGA：PCIe 256MB GDDR3 或更高规格的视频图形卡
- ※ 要了解关于 OS 和浏览器的详细版本信息，请参阅附件。

## 建议的 MICRO SD/SDHC 存储卡规格

- 建议容量：16GB ~ 32GB（MLC 类）
- 对您的摄像机，我们建议您使用以下厂商制造的存储卡：  
Micro SD/SDHC 存储卡：Sandisk, Transcend

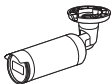
## 随机提供的物品 (LND-6010R/6020R/6030R/6070R)

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

| 外观                                                                                  | 品名      | 数量 | 功能           |
|-------------------------------------------------------------------------------------|---------|----|--------------|
|  | 摄像机     | 1  |              |
|  | 简介（可选）  | 1  |              |
|  | 保修卡（可选） | 1  |              |
|  | 模板      | 1  | 产品安装指南       |
|  | 支架螺钉    | 1  | 用于墙壁或天花板上的安装 |

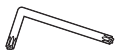
随机提供的物品 (LNO-6010R/6020R/6030R/6070R)

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  |                   | LNO-6010R/6020R/<br>6030R/6070R |
|  | 简介 (可选)   | 1  |                   | 适用于所有型号设备                       |
|  | 保修卡 (可选)  | 1  |                   |                                 |
|  | 模板        | 1  | 产品安装指南            |                                 |
|  | 支架螺钉      | 3  | 用于墙壁或天花板上的安装      |                                 |
|  | RJ45 防水配件 | 1  | 用于安装在潮湿的地方        |                                 |
|  | 干燥剂       | 1  | 安装时固定在产品内部, 用于防潮。 | LNO-6070R                       |

随机提供的物品 (LNV-6010R/6020R/6030R/6070R)

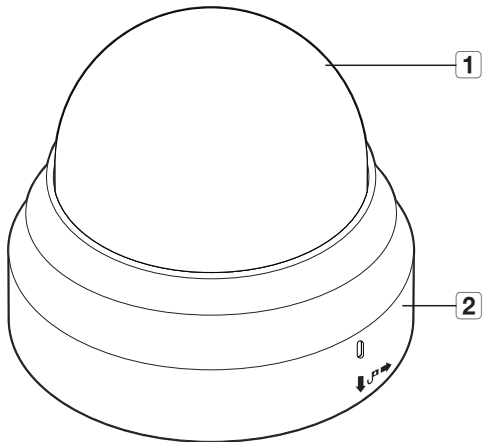
请检查产品包装内是否已包括摄像机和所有附件。  
(配件因销售国家/地区而异。)

| 外观                                                                                    | 品名       | 数量 | 功能                        | 型号名称                            |
|---------------------------------------------------------------------------------------|----------|----|---------------------------|---------------------------------|
|    | 摄像机      | 1  |                           | LNV-6010R/6020R/<br>6030R/6070R |
|    | 简介 (可选)  | 1  |                           | 适用于所有型号设备                       |
|    | 保修卡 (可选) | 1  |                           |                                 |
|    | 模板       | 1  | 产品安装指南                    |                                 |
|    | 星型扳手     | 1  | 用于组装和拆卸球盖                 |                                 |
|    | 干燥剂      | 1  | 安装时固定在产品内部, 用于防潮。         |                                 |
|    | 线缆保护衬套   | 1  | 用于连接直径为7到8.5毫米的局域网<br>线缆。 |                                 |
|    | 支架螺钉     | 2  | 用于墙壁或天花板上的安装              | LNV-6010R/<br>6020R/6030R       |
|  |          | 3  |                           | LNV-6070R                       |

# 概述

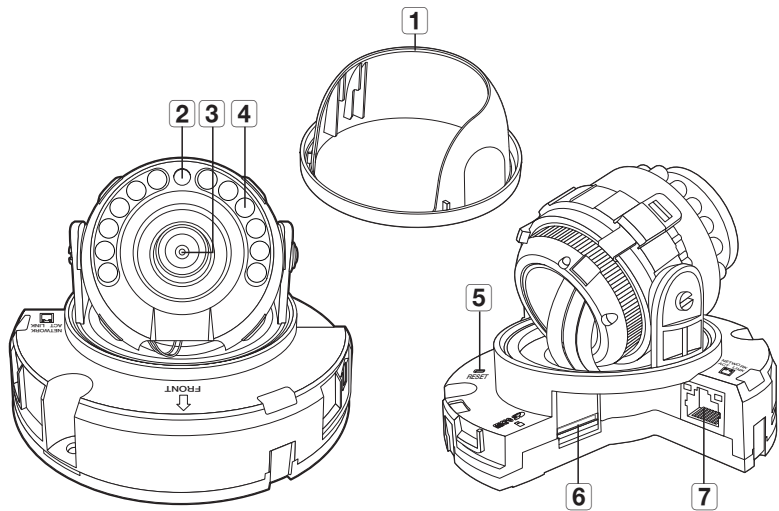
简图 (LND-6010R/6020R/6030R)

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。 |

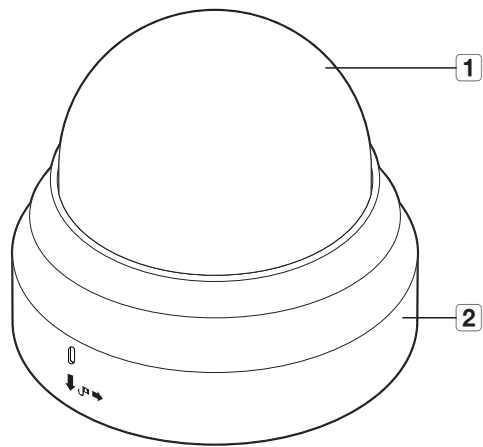
组件



| 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           | <p>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。</p> <p>■ 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。</p> |
| 6 Micro SD存储卡插入口 | 用于插入Micro SD存储卡的端子。                                                                                                                                  |
| 7 PoE 连接器        | 通过以太网电缆供电和连接网络。                                                                                                                                      |

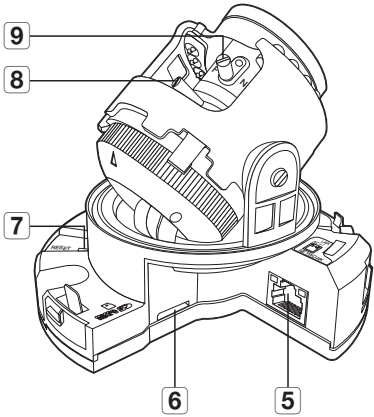
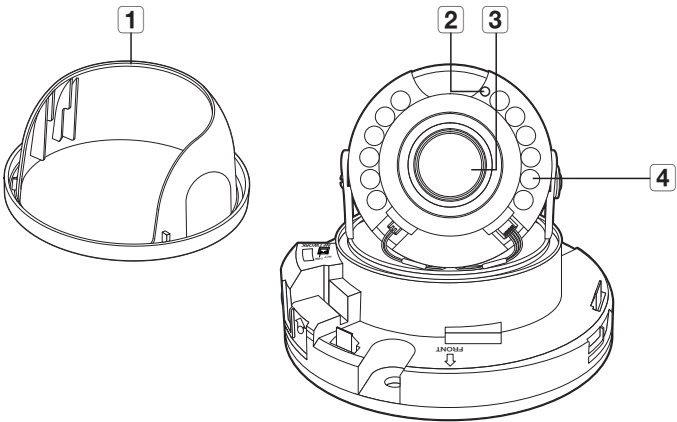
简图 (LND-6070R)

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

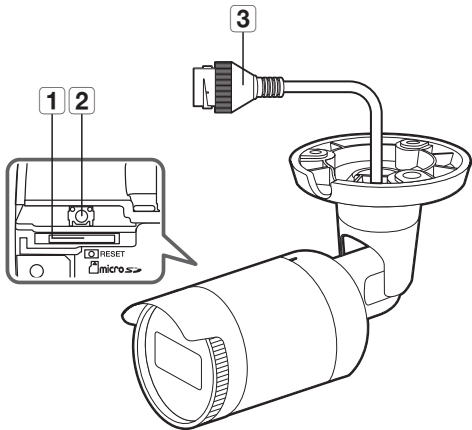


# 概述

| 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 PoE 连接器        | 通过以太网电缆供电和连接网络。                                                                                                                                           |           |
| 6 Micro SD存储卡插入口 | 用于插入Micro SD存储卡的端子。                                                                                                                                       |           |
| 7 重置按钮           | <p>该按钮会将所有摄像机设置恢复为出厂默认值。<br/>按住约 5 秒钟可重启系统。</p> <p>■ 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。</p> |           |
| 8 缩放控制杆          | T                                                                                                                                                         | 拉近（望远）    |
|                  | W                                                                                                                                                         | 拉远（宽）     |
|                  | <p>松开此杆，将其左右移动即可向前推进或推远镜头。<br/>顺时针旋转此杆即可将其固定在调整好的位置，防止移动。</p>                                                                                             |           |
| 9 对焦控制杆          | N                                                                                                                                                         | 聚焦近处物体（近） |
|                  | F                                                                                                                                                         | 聚焦远处物体（远） |
|                  | <p>松开此杆，将其左右移动即可调整镜头聚焦。<br/>顺时针旋转此杆即可将其固定在调整好的位置，防止移动。</p>                                                                                                |           |

简图 (LNO-6010R/6020R/6030R)

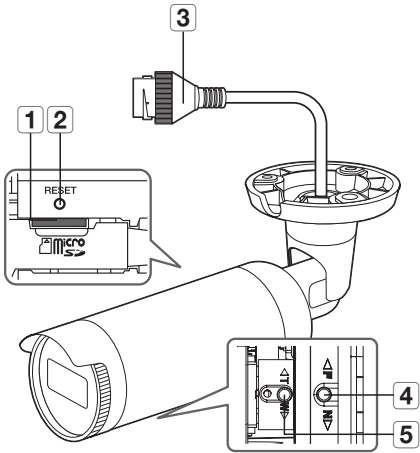
外观



| 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。<br>按住约 5 秒钟可重启系统。<br>■ 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 PoE 连接器 | 通过以太网电缆供电和连接网络。                                                                                                                               |

简图 (LNO-6070R)

外观

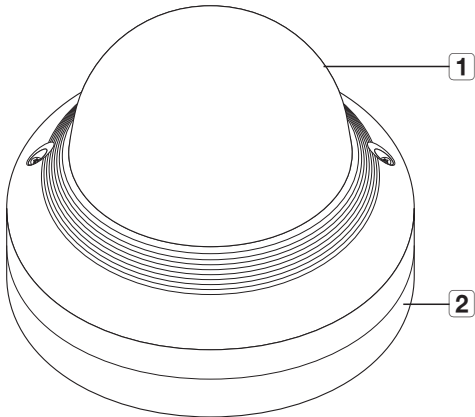


| 名称        | 功能                                                                                                                                            |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 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。<br>按住约 5 秒钟可重启系统。<br>■ 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 PoE 连接器 | 通过以太网电缆供电和连接网络。                                                                                                                               |
| 4 对焦控制杆   | N 聚焦近处物体（近）<br>F 聚焦远处物体（远）<br>松开此杆，将其左右移动即可调整镜头聚焦。<br>顺时针旋转此杆即可将其固定在调整好的位置，防止移动。                                                              |
| 5 缩放控制杆   | T 拉近（望远）<br>W 拉远（宽）<br>松开此杆，将其左右移动即可向前推进或推远镜头。<br>顺时针旋转此杆即可将其固定在调整好的位置，防止移动。                                                                  |

# 概述

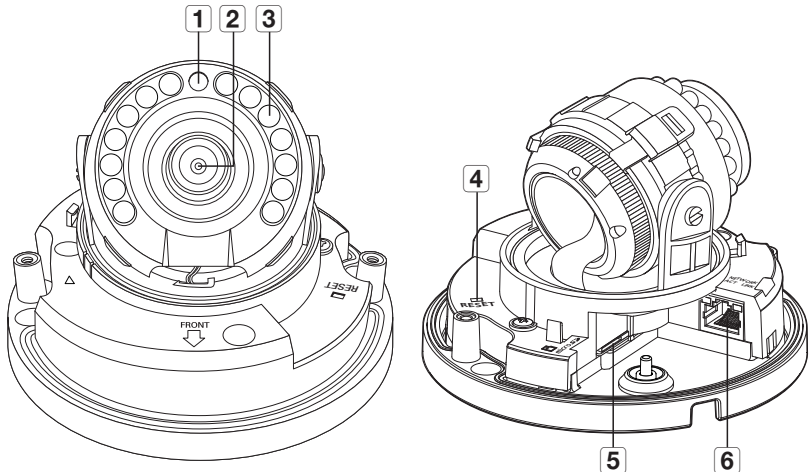
简图 (LNV-6010R/6020R/6030R)

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。 |

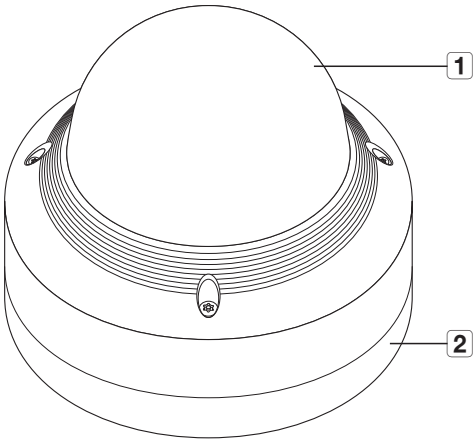
组件



| 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 重置按钮           | 该按钮会将所有摄像机设置恢复为出厂默认值。<br>按住约 5 秒钟可重启系统。<br>■ 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。 |
| 5 Micro SD存储卡插入口 | 用于插入Micro SD存储卡的端子。                                                                                                                           |
| 6 PoE 连接器        | 通过以太网电缆供电和连接网络。                                                                                                                               |

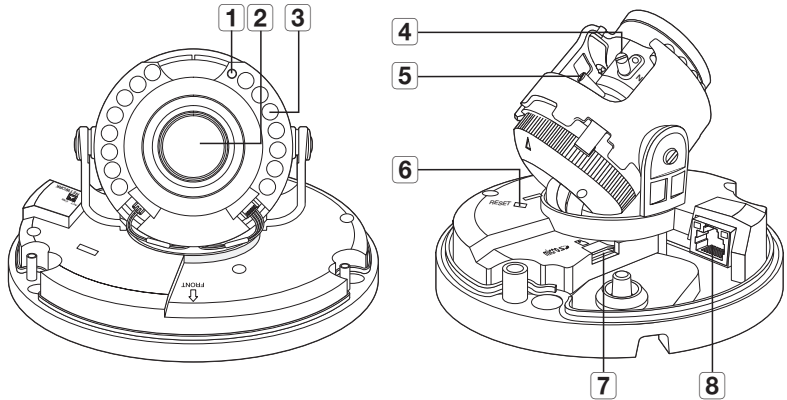
简图 (LNV-6070R)

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



| 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 对焦控制杆           | 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。<br>顺时针旋转此杆即可将其固定在调整好的位置，防止移动。                                                                                                    |            |
| 5 缩放控制杆           | 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。<br>顺时针旋转此杆即可将其固定在调整好的位置，防止移动。                                                                                                 |            |
| 6 重置按钮            | 该按钮会将所有摄像机设置恢复为出厂默认值。<br>按住约 5 秒钟可重启系统。<br><b>■</b> 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。 |            |
| 7 Micro SD 存储卡插入口 | 用于插入 Micro SD 存储卡的端子。                                                                                                                                 |            |
| 8 PoE 连接器         | 通过以太网电缆供电和连接网络。                                                                                                                                       |            |

# 安装与连接

## 安装 (LND-6010R/6020R/6030R/6070R)

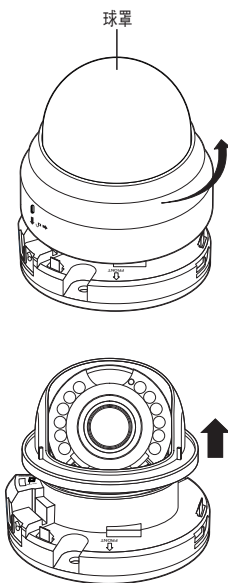
### 安装前注意事项

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

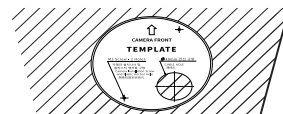
1. 用一只手握住摄像机底部，另一只手逆时针转动内罩。



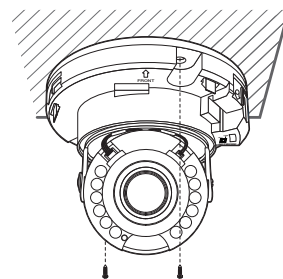
2. 向上提升内罩以将其分离。

### 安装

1. 将安装模板放在所需的位置，按照模板钻孔。

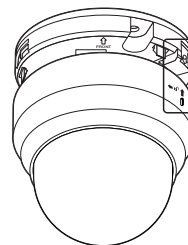


2. 使用随附提供的自攻螺钉将摄像机固定到按照模板钻出的孔中。
  - 使摄像机上压印的 <凸> 标志朝向摄像机监视方向。
3. 使用适当的电缆连接摄像机内部端子。
4. 请参阅“调整摄像机的监视方向”来调整镜头，使其面向所需的方向。（第 19 页）

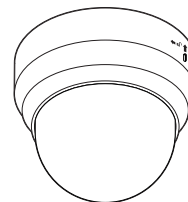


- ! ■ 建议勿单独触摸镜头，因为镜头出厂时，经过出厂检验，对焦已正确调整。触摸镜头可能导致对焦扭曲或使镜头变脏。(LND-6010R/6020R/6030R)
- 对于手动变焦镜头摄像机而言，变焦和缩放等功能应在安装前予以调整。调整这些功能时，务必要防止粘上异物。(LND-6070R)

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 (LNO-6010R/6020R/6030R/6070R)

- 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。

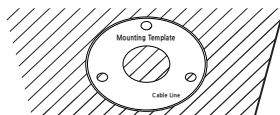
### 安装前注意事项

安装之前，请确保阅读下列说明：

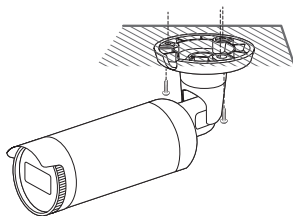
- 用于安装它的区域（天花板或墙壁）的可承受重量必须至少 5 倍于包括安装支架在内的摄像机重量。
- 注意电缆夹在不适当的地点或电缆皮受损，以免发生火灾或产品破损。
- 为安全起见，让其他人远离安装地点。请立刻收拾放在安装地点下面的贵重品。
- 对于手动变焦镜头摄像机而言，变焦和缩放等功能应在安装前予以调整。调整这些功能时，务必要防止粘上异物。

### 安装

1. 将安装模板放在所需的位置，按照模板钻孔。



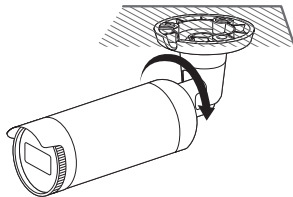
2. 使用随附提供的自攻螺钉将摄像机固定到按照模板钻出的孔中。



3. 将适当的电缆连接至摄像机终端。

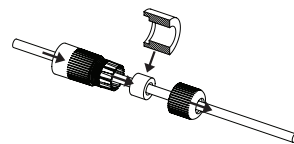
4. 使用十字螺丝刀调整摄像机的方向。

- 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。

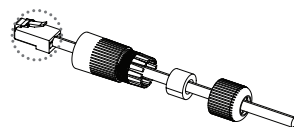


### 如何将 RJ45 防水电缆连接到 LAN 电缆

1. 沿箭头方向插入。

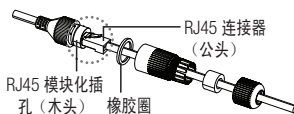


2. 将 LAN 连接器（公头）连接到电缆。

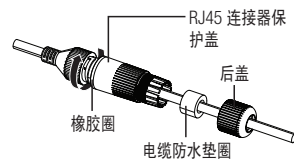


3. 将 RJ45 模块化插孔（木头）连接到 RJ45 连接器（公头）。

- 请保留拆下的每个零部件。

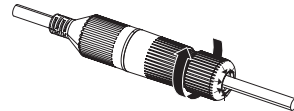


4. 通过顺时针旋转 RJ45 模块化插孔（木头）和 RJ45 保护盖（按箭头方向）来进行组装。



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。

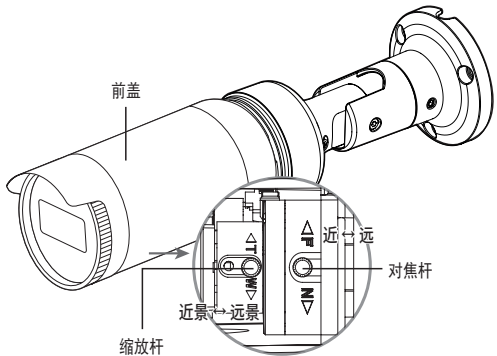
1. 连接 PoE 线缆。
2. 用防水带(丁基橡胶)，包裹住黑色电缆套管（区域 A）和电缆连接区域，确保一半以上的丁基橡胶带重叠。



- 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 (LNO-6070R)

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。

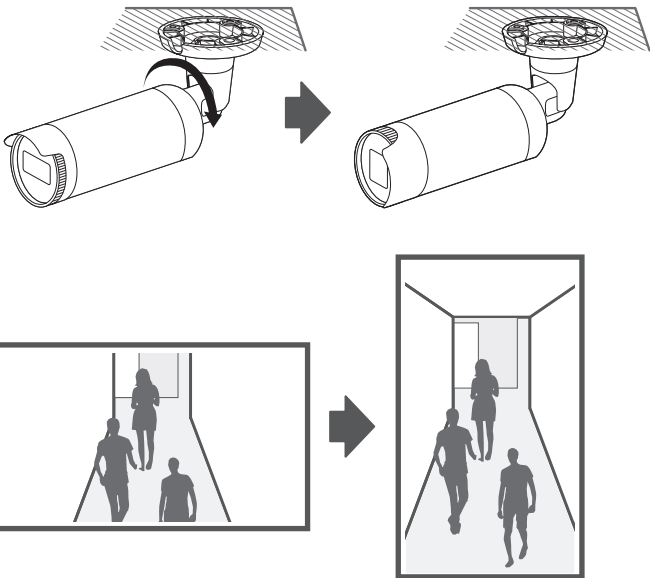


- 要确保无缝防水，请将前盖旋转到位，将其拧紧。  
组装前盖时，请将机身与前盖组装在一起，以便锁定指示器能够互锁。
- 使用杆 - 缩放杆/对焦杆来调整缩放系数或焦点，并顺时针旋转杆来固定它。
- 应先松开取出前盖，然后才能调节缩放系数/焦点。

## 过道视图

摄像机经旋转后，纵向监视区域的纵横比可扩大为 9:16，使其适合狭窄的走廊和通道。

- 同时旋转摄像机机身和前盖。



## 安装 (LNV-6010R/6020R/6030R/6070R)



- 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。

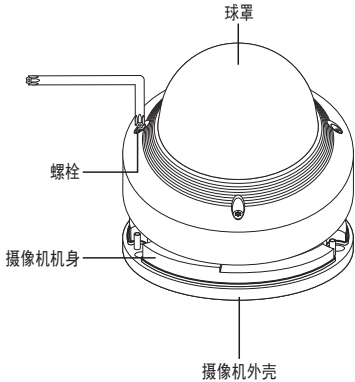
### 安装前注意事项

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。

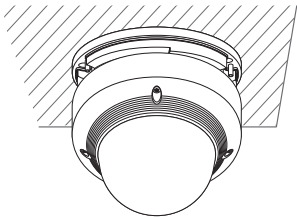
### 拆解

1. 使用随附提供的星型扳手逆时针方向拧松两颗紧固螺栓，即可卸下球罩。



### 安装

1. 将安装模板放在所需的位置，按照模板钻孔。
2. 使用随附提供的自攻螺钉将摄像机固定到按照模板钻出的孔中。
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 19 页）
5. 闭合球罩。
  - 使用星型扳手拧紧自攻螺钉，防止漏水。

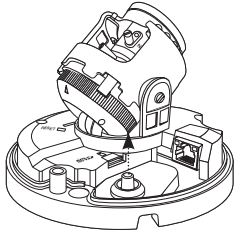


### 连接 LAN 线缆

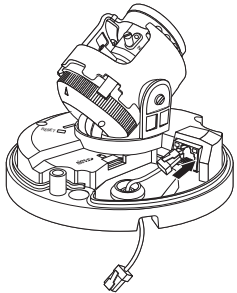
1. 卸下球罩和壳体。
2. 拉出底座上橡皮塞的长突出部，然后如图所示将其取下。



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



3. 将 LAN 线缆插入在步骤 2 取下凸出部分形成的孔中。
4. 使用电缆剪去除外皮，然后对齐电缆。
5. 为 LAN 电缆接上一个 LAN 接头，然后插入 LAN 工具。
6. 将准备就绪的 LAN 电缆连接到以太网端口。



### 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。

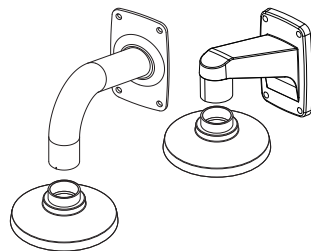
1. 从壳体取下球罩，参考“拆解”部分。（第 17 页）
2. 使用随附的机器螺钉将摄像机外壳固定到非捆绑销售的适配器上。
3. 连接和排放必要的电缆，以免在安装摄像机时损坏或缠绕它们。
4. 以“拆解”的相反顺序安装摄像机机身。
5. 请参阅“调整摄像机的监视方向”来调整镜头，使其面向所需的方向。（第 19 页）
6. 闭合球罩。
  - 使用 L 型扳手拧紧固定螺栓可防止渗水。

# 安装与连接

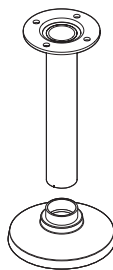
## 可选的安装附件

为了方便安装，您可以购买可选的附件。

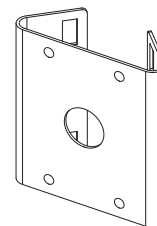
1. 墙上安装适配器 (SBP-300WMW1) / 悬挂安装适配器 (SBP-122HMMW : LND-6070R, LNV-6010R/6020R/6030R, SBP-301HMMW2 : LNV-6070R, SBP-300HMMW7 : LND-6010R/6020R/6030R)  
将圆顶摄像机安装到墙上时使用该适配器。



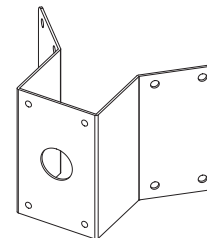
2. 天花板安装适配器 (SBP-300CM) / 悬挂安装适配器 (SBP-122HMMW : LND-6070R, LNV-6010R/6020R/6030R, SBP-301HMMW2 : LNV-6070R, SBP-300HMMW7 : LND-6010R/6020R/6030R)  
将圆顶摄像机安装到混凝土天花板上时使用该适配器。



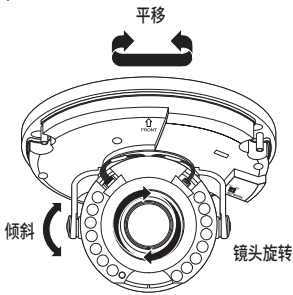
3. 柱式安装适配器 (SBP-300PM)  
这是在直径大于 80 毫米的柱子上安装墙上安装适配器 (SBP-300WM 或 SBP-300WM1) 时使用的适配器。



4. 角落安装适配器 (SBP-300KM)  
这是在墙角安装墙上安装适配器 (SBP-300WM 或 SBP-300WM1) 时使用的适配器。



调整摄像机的监视方向 (LND-6010R/6020R/6030R/6070R, LNV-6010R/6020R/6030R/6070R)



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。

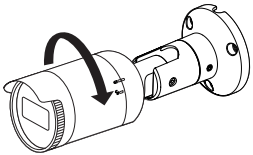
插入/取出 MICRO SD 存储卡

- !

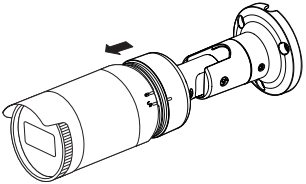
- 安装摄像机前，请先从摄像机拔下电源线后，插入 Micro SD 保存卡。
  - 请不要将 Micro SD 存储卡往逆方向强行插入，以免存储卡破损。
  - 下雨或湿度较高时，不建议插拔内存卡。
  - 产品盖子的拆卸应该在5分钟之内完成，否则会有内部结露的风险。

插入 Micro SD 存储卡 (LNO-6010R/6020R/6030R/6070R)

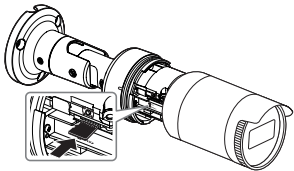
1. 按照开锁 [🔓] 方向旋转前盖。



2. 将前盖拉出并与摄像机分开。



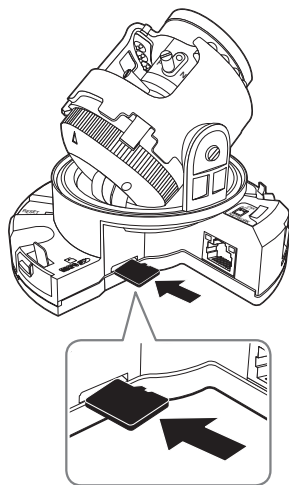
3. 按照图中箭头所示方向插入内存卡。



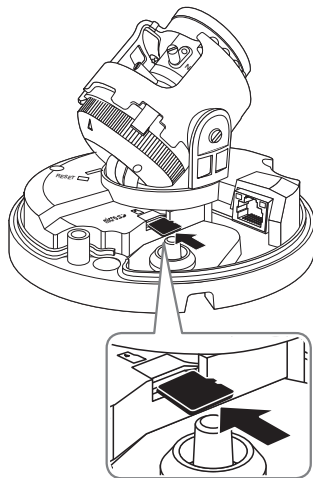
# 安装与连接

插入 Micro SD 存储卡 (LND-6010R/6020R/6030R/6070R, LNV-6010R/6020R/6030R/6070R)

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。



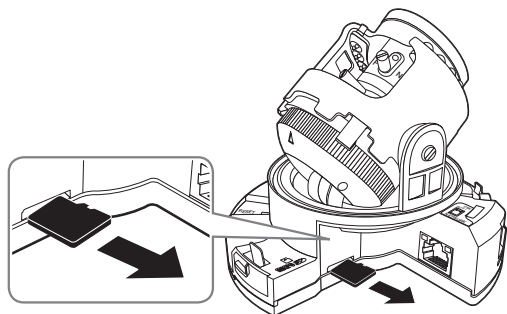
<LND-6010R/6020R/6030R/6070R>



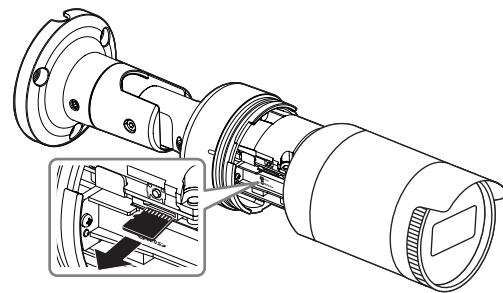
<LNV-6010R/6020R/6030R/6070R>

## 取出 Micro SD 存储卡

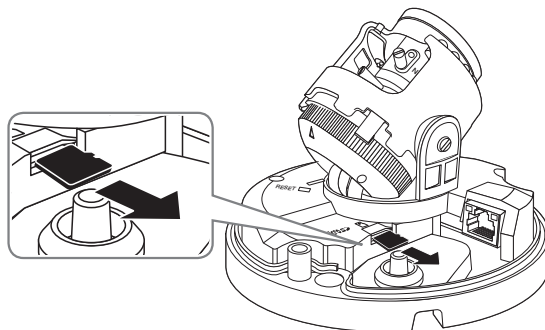
轻轻地按压存储卡露在外面的一端，依图示的方式从拆槽中弹出存储卡。



<LND-6010R/6020R/6030R/6070R>



<LNO-6010R/6020R/6030R/6070R>



<LNV-6010R/6020R/6030R/6070R>

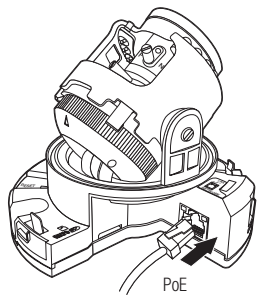


- 请注意，微型 SD 内存卡弹出时如用力推动和释放，内存卡可能会弹起。
- 在移除 Micro SD 存储卡前，请在 <存储器> 中将设备设置为 <关>，然后按下 [应用] 按钮并关闭摄影机。
- 将数据保存在 Micro SD 存储卡时，若取出存储卡或关掉电源，会导致已存数据的损失。

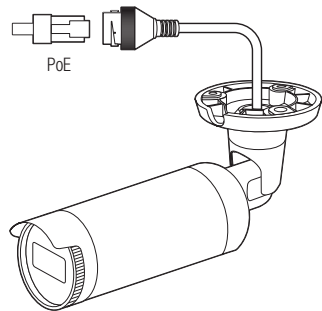
供电和联网

将 PoE 设备连接到摄像机上。

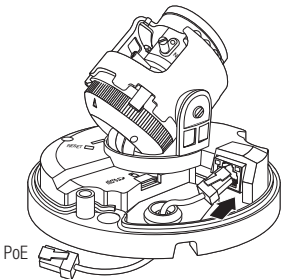
- 连接至可使用 PoE 的路由器的 PoE（Power over Ethernet）连接器。
- 使用支持 IEEE802.3af 标准的 PoE（Power over Ethernet）设备。



<LND-6010R/6020R/6030R/6070R>



<LND-6010R/6020R/6030R/6070R>



<LNV-6010R/6020R/6030R/6070R>

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     | UTP 超5e类     |                  |
| 最大距离   | 100米         | 直流电阻 ≤ 0.188 Ω/m |
| PoE 支持 | IEEE 802.3af |                  |

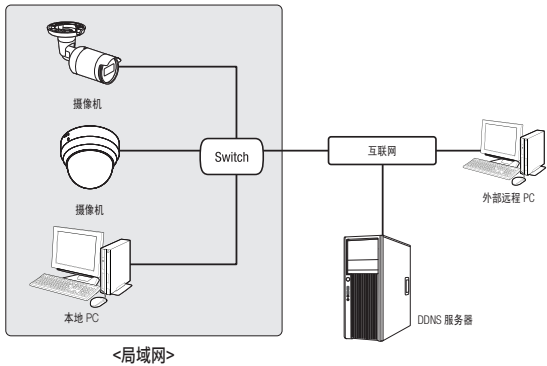
# 网络连接和设置

可根据您的网络配置来设置网络的设定。

## 在LAN环境下直接安装摄像机

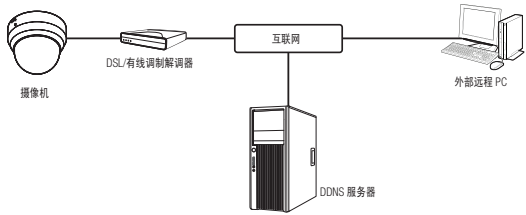
### 连接局域网内的本地 PC 和摄像机

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



- 在正确设置防火墙或端口转发前，局域网外部的远程互联网 PC 可能无法连接安装于内部网的摄像机。在此情况下，联系网络管理员解决问题。
- 在IP安装程序中，您可以使用初始密码“4321”来设置IP地址、子网掩码、网关、HTTP端口、VNP端口或IP类型。在更改网络接口后，为了提高安全性，请访问Web查看器并更改密码。
- 出货时，摄像机被设置为DHCP服务器自动分配IP地址。如果没有可用的 DHCP 服务器，则会将 IP 地址设置为 192.168.1.100。要更改 IP 地址，请使用 IP Installer。有关 IP Installer 使用的详细信息，请参阅“静态 IP 设置”。（第 24 页）

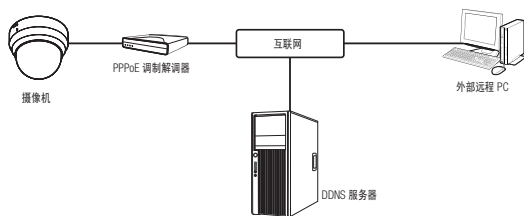
## 将摄像机直接连接至基于 DHCP 的 DSL/有线电视网调制解调器



- 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。

## 直接将摄像机连接到 PPPoE 调制解调器

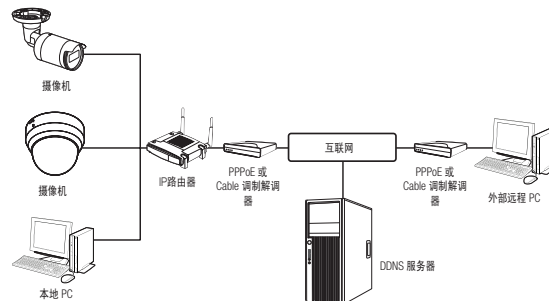


1. 直接将用户 PC 与网络摄像机连接。
2. 运行 IP Installer 并更改摄像机的 IP 地址，以便可以使用桌面上的 Web 浏览器连接至互联网。
3. 使用Web浏览器连接至 Web Viewer。
4. 移至 [设置] 页面。
5. 移至 [网络] - [DDNS] 并配置 DDNS 设置。
6. 移动到 [Basic] - [IP & 端口] 设置页面，将“IP 类型”设置为 [PPPoE]，然后输入网络服务的 ID 和密码。
7. 将摄像机与用户PC分开，并直接连接到调制解调器。
8. 重新启动摄像机。

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

## 将摄像机与使用 PPPoE/CABLE 调制解调器的IP路由器连接

适用于小型网络环境，如家庭、SOHO 以及普通的商店。



### 配置与IP路由器连接的本地PC的网络设置

在配置连接到IP路由器的本地 PC 的网络设置时，遵循以下说明。

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

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

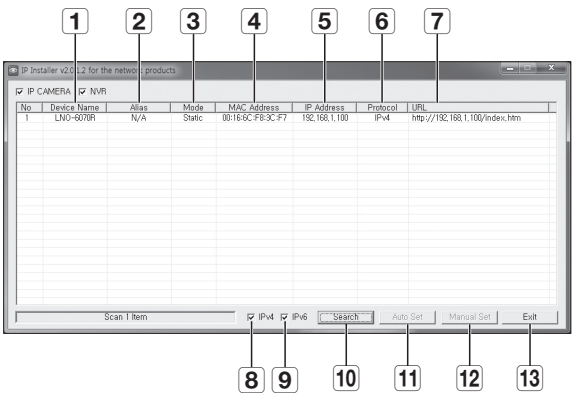
例2) 若IP路由器的地址 (LAN IP) 为 192.168.0.1  
IP 地址：192.168.0.100  
子网掩码：255.255.255.0  
默认网关：192.168.0.1

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

- 关于IP路由器的地址，请参见产品文档。
- 如需IP路由器的正向端口的更多信息，请参阅“路由器端口设置”。(第 26 页)

# 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。<br>单击此列标可以按型号名称对列表进行排序。<br>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>、<Dynamic> 和 <PPPoE>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。<br>单击此列标可以按以太网对列表进行排序。<br>但是，如果在搜索时单击将会停止搜索。 |
| 5 IP Address            | IP 地址。<br>单击此列标可以按 IP 地址对列表进行排序。<br>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。<br>出厂默认设置为 “IPv4”。<br>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。<br>若DDNS注册失败，该列标将显示为摄像机的<IP Address>。 |
| 8 IPv4                  | 扫描使用 IPv4 设置的摄像机。                                          |

| 名称            | 功能                                                   |
|---------------|------------------------------------------------------|
| 9 IPv6        | 扫描使用 IPv6 设置的摄像机。<br>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。<br>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

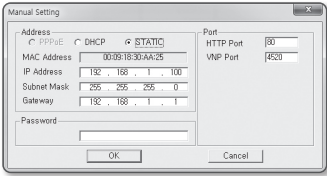
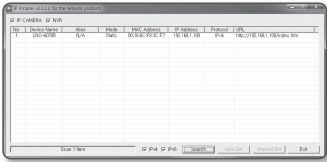
### 手动网络设置

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。

- 从搜索列表选择一个摄像机。  
在摄像机的标签上检查摄像机的 MAC 地址。  
将激活 [Auto Set] 和 [Manual Set] 按钮。
- 单击 [Manual Set]。  
Manual Setting 对话框将会出现。  
摄像机的 <IP Address>、<Subnet Mask>、<Gateway>、<HTTP Port> 和 <VNP Port> 均显示为预设值。
- 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。

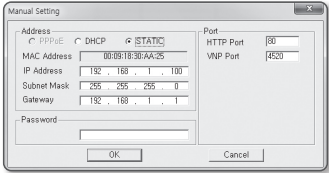
5. 输入密码。

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 26 页)



如果IP路由器连接了多个摄像机

分别设置摄像机的IP相关项目和Port相关项目。

例)

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

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

自动网络设置

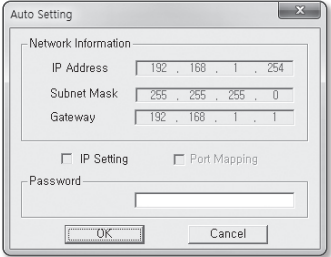
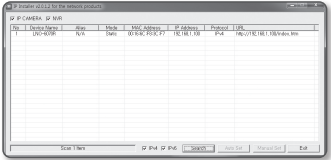
运行 <IP Installer\_v2.XX.exe> 以显示摄像机搜索列表。  
在初始启动时，[Auto Set] 和 [Manual Set] 将呈灰色。

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

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

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

4. 单击 [OK]。  
将完成自动网络设置。



# 网络连接和设置

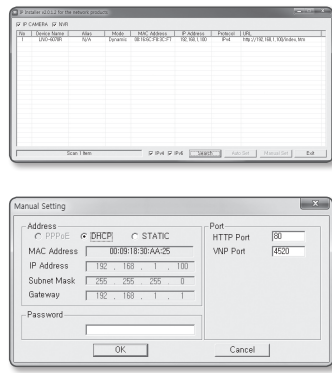
## 动态 IP 设置

### 动态 IP 环境设置

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

### 检查动态 IP

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

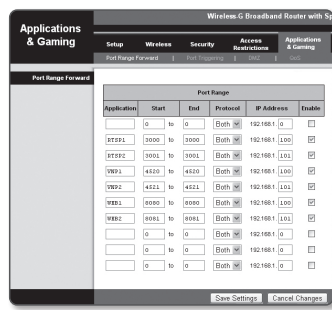


## 路由器端口设置

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

### 手动端口设置

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



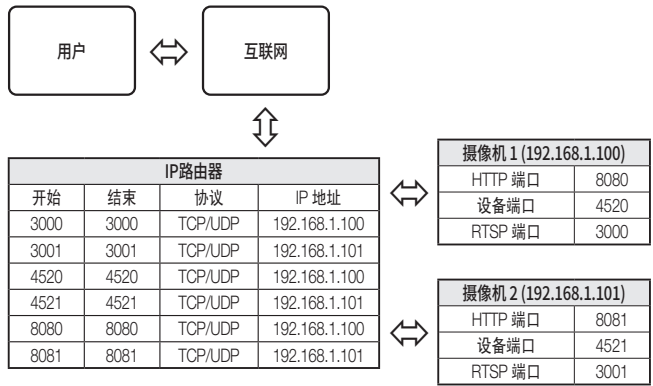
3. 完成后, 单击 [Save Settings]。  
将保存设置。

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

### 设置多个网络摄像机的端口范围前移

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

当摄像机 1 和摄像机 2 连接至同一路由器时：



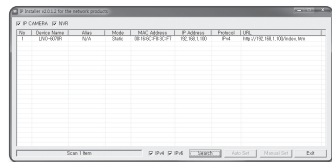
- 如果路由器支持 UPnP (通用即插即用) 功能, 无需额外路由器设置即可实现端口转发。  
连接好网络摄像机之后, 选择 <设置> -> <网络> -> <DDNS> 下 <Wisenet DDNS> 中 <快速连接> 菜单中的复选框。

## 从共享的本地 PC 连接到摄像机

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



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



## 从远程 PC 通过互联网连接到摄像机

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

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



■ 要了解如何注册 DDNS 的信息, 请参阅网络设置指南。

# web 查看器

## 连接到摄像机

### 通常,您应该

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

### 如果 HTTP 端口为除 80 以外的值

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

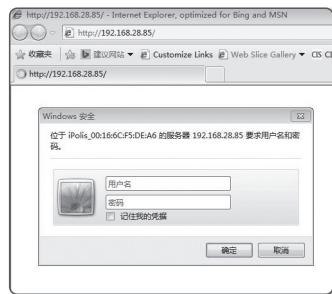
### 使用 URL

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

 在只有Local网的环境下, 无法访问摄像机。

### 通过 UPnP 连接

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



### 通过 Bonjour 连接

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

### 检查 DDNS 地址

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

在这种情况下, 将不会通知您 IP 地址已被 DDNS 更改。

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

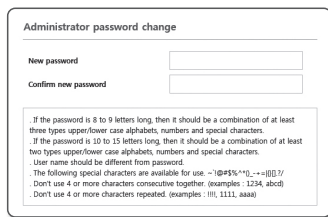
要向 <DDNS> 服务器注册您的设备, 请访问 <http://ddns.hanwha-security.com> 并先注册您的设备, 然后将 Web Viewer 的 <网络> - <DDNS> 设置为 <Wisenet DDNS>, 在<产品ID>上输入已在DDNS服务器上所注册的产品ID。

## 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。

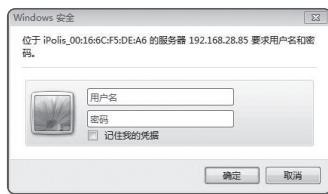
1. 在 <用户名> 输入框中输入“admin”。  
管理员 ID，即“admin”是固定的，无法更改。
2. 在 <密码> 输入字段中输入密码。
3. 单击 [确定]。  
如果已成功登录，您将会看到 Live Viewer 屏幕。



- 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。



## 各浏览器插件支持规格

web 查看器同时兼具内置插件 web 查看器和全新的无插件 web 查看器。这意味着即使在不支持插件的现代浏览器环境下，依然可以使用 web 查看器，例如 Chrome、EDGE 和 FireFox（仅 Windows 64 位）。建议在允许安装插件的 IE 浏览器中安装插件。

根据浏览器环境，可能出现以下差异：

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



- 由于无插件 web 查看器的性能不如插件 web 查看器，其在监控高品质配置文件和播放保存的视频时可能会受到限制。使用有插件 web 查看器或智能查看器 (SmartViewer) 均可监控高品质配置文件及播放保存的视频。
  - 实时视频出现延迟时，将自动创建无插件配置文件。
  - 播放可能导致延迟，这取决于编解码器和分辨率。
- Chrome 浏览器的无插件功能已得到优化。

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



- 如要流畅地监控/播放已保存的视频，必须安装插件。

# web 查看器

## 安装 WEBVIEWER 插件

如尝试通过 IE 浏览器访问无插件 web 查看器,并通过编解码器(当前正在使用的除外)请求实时观看,或请求使用录制视频播放功能,将出现一条安装消息。此时,必须安装 web 查看器插件以正常使用各项功能。

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

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

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

 ■ 如果尚未安装任何 Web 浏览器插件,将跳过步骤 4 和 5。

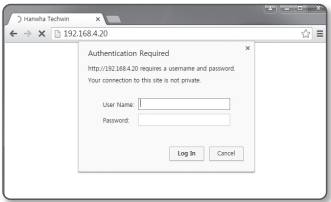
4. 如果已安装了旧版本的 Web 浏览器插件,屏幕会显示一个通知窗口以指示旧版本将被删除。在该通知窗口中单击 [Yes]。
5. 单击 [OK]。  
旧版本的 Web 浏览器插件即被删除。
6. 单击 [Install], 开始安装 Web 浏览器插件。
7. 单击 [Finish]。  
Web 浏览器插件即完成安装。

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

## 使用无插件 WEB 查看器

如从 Google Chrome、Mozilla Firefox、MS Edge 或 Safari web 浏览器连接摄像机,无法单独安装插件,但即使没有插件,您也可以实时查看和控制摄像机视频。

1. 输入用户名和密码登录。
2. 成功登录后即显示摄像机实时视图屏幕。



## 设置摄像机的步骤

1. 点击[设置 (⚙️)]图标。
2. 出现设置窗口。
3. 可通过网络配置摄像机基本信息、视频、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。

故障排除

| 故障                                           | 解决方法                                                                                                                                                                                               |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 在 Safari 上通过 HTTPS 访问无插件 web 浏览器时,将不会播放任何视频。 | <ul style="list-style-type: none"><li>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。</li><li>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。</li></ul> |
| 无法使用Web浏览器访问摄像机。                             | <ul style="list-style-type: none"><li>检查摄像机的网络设置 是否正确。</li><li>检查网络缆线是否正确 连接。</li><li>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。</li><li>若摄像机与IP路由器连接、确认是否 正确设置了端口转发。</li></ul>                         |
| 查看器在监视期间断开。                                  | <ul style="list-style-type: none"><li>已连接的查看器在摄像机或网络配置发生更改时会断开。</li><li>检查所有的网络连接。</li><li>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。</li></ul>                                                     |
| 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。             | <ul style="list-style-type: none"><li>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。<br/>示例) 如先访问 MJPEG、H264 和 H265 (设置有所不同的配置文件), 然后再访问其他配置文件, 将使连接中断。</li></ul>                                     |
| IP 安装程序未检测到连接至网络的摄像机。                        | <ul style="list-style-type: none"><li>关闭 PC 上的防火墙设置、再次搜索摄像机。</li></ul>                                                                                                                             |
| 图像重叠。                                        | <ul style="list-style-type: none"><li>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。</li></ul>                                                                                                |
| 无图像出现。                                       | <ul style="list-style-type: none"><li>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。</li></ul>                                                                                                           |

| 故障                                               | 解决方法                                                                                                                                                                                                                              |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 即使在<事件>页面下<移动探测>项设置为<开>时生成了移动探测事件,也无法将文件传送至电子邮件。 | <ul style="list-style-type: none"><li>按以下顺序验证设置：<ul style="list-style-type: none"><li>A. 检查 &lt;日期和时间&gt; 设置。</li><li>B. &lt;移动探测&gt; 应设置为 &lt;启用&gt;。</li><li>C. 检查 &lt;事件设置&gt; 菜单的 &lt;电子邮件&gt; 选项是否选择为使用。</li></ul></li></ul> |
| 无法录制到 Micro SD 内存卡。                              | <ul style="list-style-type: none"><li>检查内存卡是否有缺陷。</li></ul>                                                                                                                                                                       |
| 插入了 Micro SD 内存卡,但摄像机操作不正常。                      | <ul style="list-style-type: none"><li>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</li><li>在 &lt;设置&gt; → &lt;事件&gt; → &lt;存储器&gt; 菜单中, 再次格式化内存卡。</li></ul>                                                                        |

# OPEN SOURCE ANNOUNCEMENT

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| iproute2-4.3.0     | GPL 2.0 |                                                                                                     |
| iptables-1.4.21    | GPL 2.0 | <a href="http://ftp.netfilter.org/pub/iptables">http://ftp.netfilter.org/pub/iptables</a>           |
| ethtool-4.2        | GPL 2.0 |                                                                                                     |
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| mi-diag-2.11       | GPL 2.0 |                                                                                                     |
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| wpa_supplicant-2.5 | GPL 2.0 |                                                                                                     |
| bash-4.3.30        | GPL 3.0 |                                                                                                     |
| zeroconf           | GPL 2.0 |                                                                                                     |

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|----------------|----------|-----------------------------------------------------------------------|
| glibc          | LGPL 2.0 |                                                                       |
| inetutils      | LGPL 3.0 |                                                                       |
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This package is an SSL implementation written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

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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  $\mu$ T-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.

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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.

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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.
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  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.
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**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.
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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.
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**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:
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  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.

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)

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iperf performance test

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Jean-loup Gailly Mark Adler

[jloup@gzip.org](mailto:jloup@gzip.org) [madler@alumni.caltech.edu](mailto:madler@alumni.caltech.edu)

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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