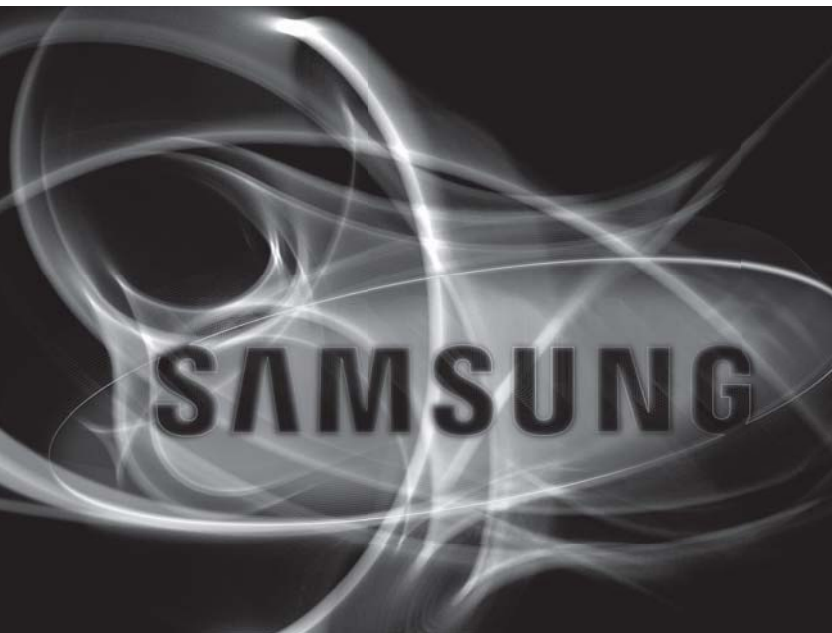


**SAMSUNG TECHWIN**

# 网络摄像机 用户手册

**SND-3080F**



# 网络摄像机

## 用户手册

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如果在正常条件下，产品无法操作，请告诉我们。Samsung Techwin 将免费解决问题。

保质期是 3 年。但是，不包括下列情况：

- 如果因为运行与系统操作无关的程序而导致系统行为异常。
- 使用时间长而导致性能下降或自然磨损

# 概述



## 注意

不要擅自拆装机器，  
避免电击



**注意：**为避免触电危险，不得取下机器后盖。机器内部没有用户可修理的部件。  
修理工作只允许由具备资格的人员进行



此符号表示在机壳内部存在未绝缘的危险电压，有触电的危险。



此符号提醒注意随同资料中重要的操作和保养说明。

## 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。
- 像头仅可连接到 PoE 网络时无需路由至外部厂址。

## 警告

1. 请使用符合产品规格的适配器。使用其它任何适配器都可能造成火灾、触电事故或产品损坏。
2. 电源接错时可能引发火灾，触电事故或产品故障。
3. 禁止同一个适配器上同时连接多台摄像机使用，适配器容量超载可能引起异常发热及火灾。
4. 电源线应该牢固插入电源插座中（连接不牢固时可能造成火灾）。
5. 将摄像机安装于墙壁或天花板上时，应安全牢固地固定。摄像机坠落可能造成人身伤害。
6. 请勿将导体（如：螺丝刀、硬币或金属物）或盛满水的容器置于摄像机之上。
7. 请勿将本装置安装在潮湿、多尘或多烟的地方否则可能造成火灾或触电。

# 概述

8. 如果装置中发出异常气味或烟雾请停止使用本产品。此时应立即拔出电源与服务中心联系。  
此时如果继续使用可能造成火灾或触电
9. 如果本产品工作异常，请与经销商或最近的服务中心联系。请勿以任何方式拆解或更改本产品。  
(因未授权用户拆解或维修造成的问题不在保修范围之内)。
10. 清洁时，请勿将水滴直接溅在产品部件上。(否则可能造成火灾或触电)。
11. 不要将产品置于正对着空气流动的位置。  
否则，由于圆顶摄像机内外的温度差异，会在清澈的圆顶内产生湿气凝结。
12. 如果您在低温区域(例如冷库内)安装本产品，则必须用硅密封电线导管，使得外面的空气不能流入机盒中。  
否则，外面湿度很高的空气可能会流入机盒中，由于内外温度差异而导致产品内部潮湿或有水蒸汽。

## 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三星内部验证后做成的。

某些部品包含的有害物质，按照现在的技术基准不能替代，三星一直在为改善此项而努力。

## 注意

1. 请勿将物体掉落在产品上或使产品受到冲击。或有磁场干扰的地方。
2. 请勿将产品安装在高温（超过 50°C）、低温（低于 -10°C）、或湿度高的地方，如果这样做就会导致火灾电击。
3. 如果移动已经安装好的产品时，在移动或重新安装前，请务必关掉电源。
4. 出现雷电时，请从插座拔出电源插头，如果疏忽，可能导致火灾或损坏产品。
5. 避免有阳光直射的地方或热源，如果疏忽可能带来火灾。
6. 安装在通风良好的地方。
7. 避免将摄像机直接暴露在有阳光的地方，否则会破坏 CCD 的传感器。
8. 要防止机器淋雨或溅水。不要在机器上放置诸如花瓶一类的液体容器。
9. 电源插头需要经常插拔，请安装在可方便拆卸的场所。用户对机器操作时，要保证插头牢固插入到电源插座中，以确保稳定操作。
10. 在户外使用摄像机时，由于户内外存在温差，可能导致摄像机内部出现湿气。因此，我们建议您将摄像机安装在户内。当需要将摄像机安装在户外时，请使用内嵌有风扇和加热装置的摄像机。

## 注意

如果电池替换错误，则具有爆炸危险。

只替换相同或同等类型。

# 概述

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## 重要的安全说明

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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. 请您用干布清洁本机器。
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是必须的具备充分的保护。
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。



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## 产品特点

- **支持各种通信协议**

支持 TCP/IP、UDP、RTP/RTSP、SMTP（用于邮件）和 FTP 协议，以及多种因特网协议，例如 ARP、HTTP、HTTPS 和 DHCP。

- **基于 Web 浏览器的监视**

使用互联网 Web 浏览器在本地网络环境中显示图像

- **自动本地 IP 设置**

即使网络新手也可以用最少的操作进行安装。

- **警报**

如果连接了警报感应器并检测到有移动，则有信息通过 FTP/电子邮件 (SMTP) 发送到登记地址或存放在 SD 内存卡中，或向警报输出终端发出报警信号。

- **移动探测**

如果指定移动区域的摄像机检测在该区域有移动，它就会向用户 FTP/电子邮件帐户 (SMTP) 发送通知，或者存储在 SD 存储卡中，或将相应的信号发送到警报输出终端。

- **符合 ONVIF (Spec 1.01)**

本产品支持 ONVIF Core Spec. 1.01。  
有关详细信息，请参阅 [www.onvif.org](http://www.onvif.org)。



Driving network video through global standardization

## 推荐 PC 技术规格

- CPU : Pentium4 / 2.4GHz 或更高
- 操作系统 : Windows XP (SP2, SP3) / Windows Vista / Windows 7
- 分辨率 : 1024X768 像素或更高
- RAM : 512MB 或更大
- 网络浏览器 : IE 6.0 或更高版本
- 显卡 : Radeon 或 Nvidia
- 显存 : 128MB
- DirectX8.1 或更高版本

### 兼容 宽带路由器

- Linksys / D-Link / Netgear

### 兼容 PoE 交换机

- Linksys SRW224G4P / D-Link DES-1316 / SMC SMCPWR-INJ3

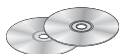
# 概述

## 附带提供的物品

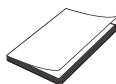
请检查产品包装内是否已包括摄像机和所有附件。



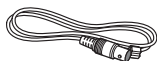
摄像机



用户手册/ Installer S/W CD,  
CMS S/W DVD



用户手册



测试监视器电缆



螺钉



自攻螺钉



支架固定

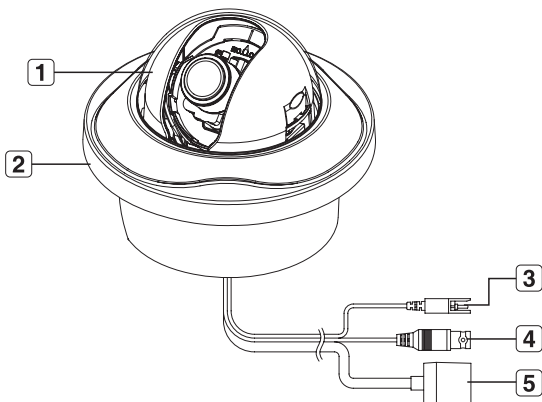


模板



- 测试监视器电缆连接到手持式播放器，用于测试摄像机。如果您想将其用于实际监视摄像机，请换用 BNC 电缆。

## 外观



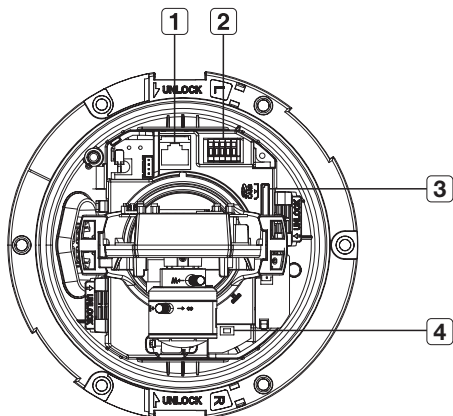
| 项目              | 说明                         |
|-----------------|----------------------------|
| <b>1</b> 圆顶盖    | 用于保护镜头和主设备的护盖。             |
| <b>2</b> 主设备    | 包括：镜头、开关板、PCB 和螺钉。         |
| <b>3</b> 电源端口   | 用于插入电源线。                   |
| <b>4</b> 视频输出端口 | 用于连接输出摄像机视频信号的显示器的视频输入连接器。 |
| <b>5</b> 网络端口   | 用于连接 PoE 或 LAN 电缆。         |



- 用擦镜布或蘸有乙醇的布块轻轻擦拭透镜去除表面脏污。

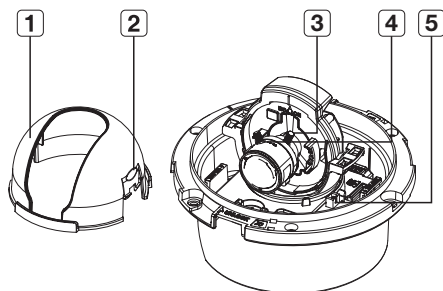
# 概述

## 内部



| 项目                 | 说明                                                                                                           |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| <b>1</b> 网络端口      | 用于连接 PoE 或 LAN 电缆。                                                                                           |
| <b>2</b> 警报输入/输出端子 | 警报输入/输出端子可以进行如下配置：<br>- <b>ALARM IN</b> ：用于警报输入的端子<br>- <b>ALARM OUT</b> ：用于警报输出的端子<br>- <b>GND</b> ：接地端子    |
| <b>3</b> SD 内存卡盒   | 用于 SD 内存卡的盒子。                                                                                                |
| <b>4</b> 重置按钮      | 重置摄像机设置。<br>按下按钮约 3 秒钟，并且系统指示灯会关闭，并将重新启动。<br><b>ⓘ</b> 重置摄像机需要使用 IP Installer 应用软件重新配置网络设置(IP 地址、子网掩码、网关地址等)。 |

## 组件



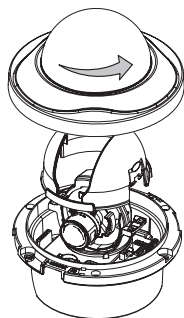
| 项目            | 说明                         |
|---------------|----------------------------|
| <b>1</b> 内部护盖 | 用于保护主设备的护盖。                |
| <b>2</b> 侧面挂钩 | 按任意一端即可取出内部护盖。             |
| <b>3</b> 对焦杆  | 将其向左或向右旋转调节对焦设置；顺时针旋转固定对焦。 |
| <b>4</b> 倾斜螺钉 | 用于调节或固定镜头的倾斜度。             |
| <b>5</b> 监控输出 | 测试监视器电缆连接到手持式播放器，用于测试摄像机。  |

# 安装与连接

## 安装

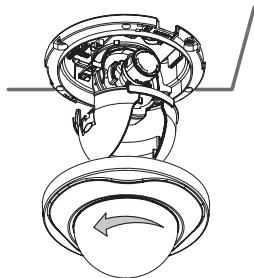
### 卸下圆顶盖

1. 按住底部锁定杆，同时用另一只手卸下护盖。卸下护盖后会露出主设备和内部护盖。
2. 若要固定摄像机位置，可按住内部护盖的两个挂钩并将其向上提起。



### 天花板安装

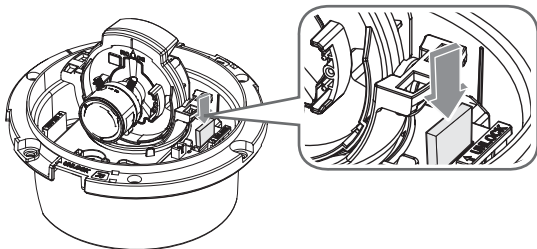
1. 使用提供的模板为摄像机钻一个孔，然后为螺钉钻一个孔（直径 5 毫米，至少 35 毫米深），并将塑料固定器 (HUR 5) 插入螺钉孔直到底部。
2. 连接和排放必要的电缆（电源、视频等等），以免在安装摄像机时损坏或卡住它们。
3. 将摄像机总成插入孔中以便它与摄像机孔相配，并使用自攻总成螺钉 (TH, M4xL30) 固定总成。(x3)
4. 盖上圆顶盖。
5. 将护盖固定到主设备上。将护盖内的突出部分固定到主设备的相应孔中，然后旋转护盖进行固定。



## 插入/拔出 SD 记忆卡

### 插入 SD 记忆卡

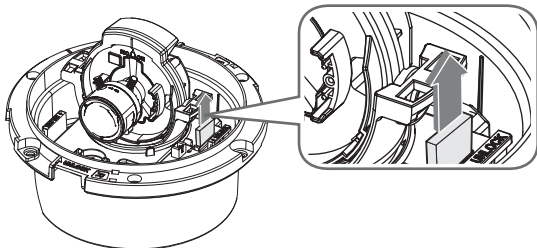
将 SD 记忆卡按图示箭头的方向推入。



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

### 拔出 SD 记忆卡

轻轻地按压记忆卡露在外面的一端，依图示的方式从插槽中弹出记忆卡。



- ❗ 过度用力按压 SD 记忆卡可能会导致卡不可控制地从插槽中弹出。
- 在弹出 SD 内存卡前，请取消选择 <警报图像> 中的 <SD 卡录制> 复选框，然后按 [应用] 按钮。（第 61 页）

# 安装与连接

## 记忆卡信息(不含)

### 什么是记忆卡?

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

### 选择一款适合您的记忆卡

您的摄像头支持 SDHC 记忆卡。

根据记忆卡的型号和制作材料不同,您可能会遇到兼容性的问题。

您的摄像头支持 SD 记忆卡。

请注意,支持的内存卡最大为 2GB。

对您的摄像头,我们建议您使用以下厂商制造的记忆卡:

SDHC/SD 记忆卡: Panasonic、Sandisk 以及 Toshiba。

您的摄像头支持 128MB 至 16GB(SD卡:2GB)容量的记忆卡。

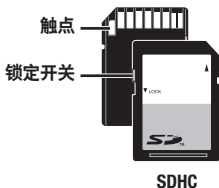
回放性能可能受记忆卡速度的影响,因此,请使用高速记忆卡。

我们建议,最好使用最小读/写速度 10Mbps,且符合 6 类规格的记忆卡。

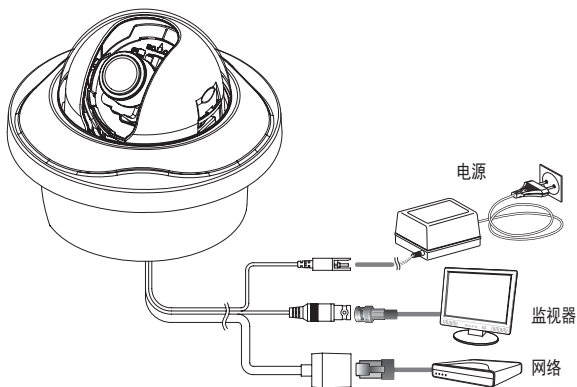
### 记忆卡的使用

SD 和 SDHC 记忆卡有一个能够禁止写入的开关。将开关拨到锁定位置能够保证记忆卡中的数据不会因意外删除,但同时,您也无法向其中写入数据。

### ❖ 记忆卡组件



## 与其他设备连接



### 电源

将电源适配器连接到电源输入端口。



- 在连接电源线时，一定不要弄反极性。  
您也可以使用具有 PoE（以太网供电）功能的路由器为摄像机供电。

### 连接至监视器

将摄像机的 [V\_OUT] 端口连接至监视器的视频输入端口。

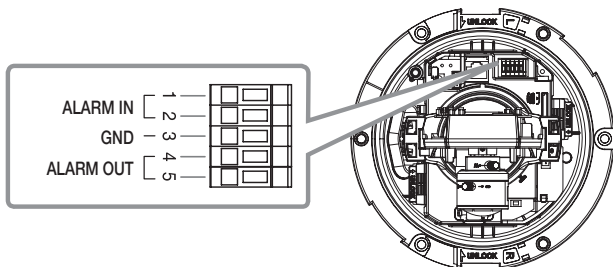
### 网络连接

网络网电缆连接到本地网络或互联网。

# 安装与连接

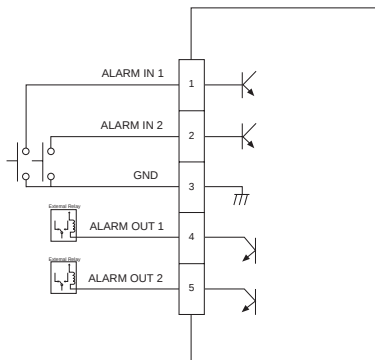
## 连接到 I/O 端口盒

将警报 I/O 电缆连接到内部端口盒的相应端口。

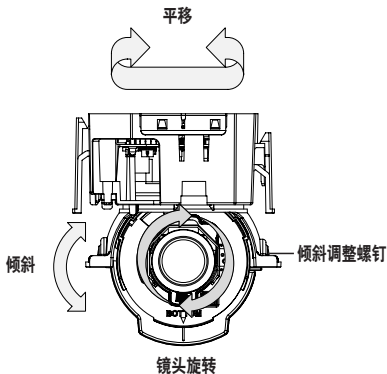


- ALARM IN 1,2 : 用于连接警报输入信号。
- GND : 用于连接地线。
- ALARM OUT 1,2 : 用于连接警报输出信号。

## 警报 I/O 接线图



## 调整摄像机的监视方向



仅当摄像机固定到天花板上时才能调整摄像机方向。

然后,将摄像机向左或向右旋转称为“平移”,而倾斜一定的角度称为“倾斜”。对于平移,顺时针限定为 220° 度,逆时针限定为 120° 度,总共活动度为 340° 度;超过此限制会被阻滞器停止。

### 调整倾斜度

将倾斜度调整螺钉拧松并旋转镜头。

调整镜头,使之与地面成 90° 角,然后拧紧倾斜度调整螺钉,固定镜头。

### 调整缩放和焦距

观看摄像机的实时视频并根据需要旋转“缩放杆”以放大/缩小物件。

旋转“缩放杆”,直至图像变清晰。

- 有关缩放杆和焦距杆位置的信息,请参阅“组件”部分(第 13 页)。



- 建议将摄像机安装在离地面 2.5~10 米高的位置。

# 摄像机设置

您可以使用 Web 查看器配置摄像机设置。



有关访问 Web 查看器的信息，请参阅“**网络连接和设置**”。（第 30 页）

## 如何使用键盘控制器

如果您运行 Web 查看器设置菜单，请按照以下步骤操作。

1. 启动 Web 查看器。
2. 在左侧窗格的 **[摄像机 OSD]** 菜单中，单击 **[菜单]**。  
    <菜单> 屏幕将会出现。
3. 单击上/下按钮 (▲▼) 移至所需的项目。
4. 单击四向按钮 (▲▼◀▶) 在菜单项之间导航。
5. 若要更改所选项目的值，请单击左/右按钮 (◀▶)。
6. 单击 **[Enter]**。  
    将会应用您的更改。



-  退出菜单设置屏幕。

在退出设置屏幕前，选择 <保存> 以保存设置，或选择 <放弃> 取消设置。

-  保存设置并返回前一个屏幕。

-  如果要在指定遮挡区域和加密区域等项目后保存设置，请使用此图标。  
一旦保存设置后，即使您在退出时选择 **[放弃]**，更改也将保留。

-  如果要删除遮挡区域或加密区域等，请使用此图标。  
一旦删除设置后，即使您在退出时选择 **[放弃]**，删除仍有效。

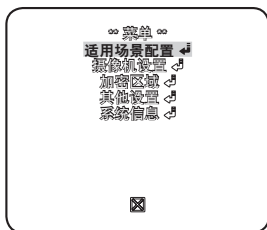
-  此箭头会出现在包含子项的菜单旁。

对于右边有“\*”标记的项目，您可以从“**术语**”获得帮助。（第 67 页）

## 主菜单

您可以根据需要配置摄像机设置。

- **适用场景配置**  
您可以选择适合摄像机安装环境的模式。
- **摄像机设置**  
配置摄像机功能和设置。
- **加密区域**  
您可以配置隐私设置。
- **其他设置**  
您可以配置包括 出厂默认设置在内的更多设置。
- **系统信息**  
显示摄像机版本和类型。



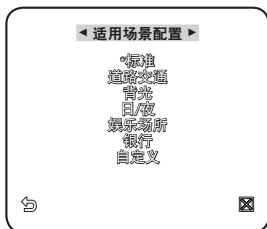
## 概图

您可从预置模式中选择一個适合您的特定安装环境的模式。

在 适用场景配置中选择的每一个项目将影响摄像机的其他所有设置。对于设置，请参阅“适用场景配置”。(第 66 页)

有关选择和保存各菜单项的信息，请参阅“如何使用键盘控制器”。(第 20 页)

- **标准**  
自动针对正常环境优化摄像机设置。
- **道路交通**  
此设置让您分析道路交通情况并一目了然地了解交通信息。
- **背光**  
此设置让您在背光强烈的场景中仍可看到鲜明的背景和对象。
- **日/夜**  
自动针对白天和夜晚场景优化摄像机设置。
- **娱乐场所**  
自动配置设置使您可在稳定的照明环境（比如室内）工作。
- **银行**  
自动针对环境优化摄像机设置。
- **自定义**  
更改任意适用场景配置设置均将使显示切换至自定义。



# 摄像机设置

## 摄像机设置

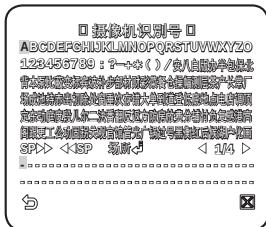
您可以配置摄像机模块的一般设置。  
使用四向按钮 (▲▼◀▶) 选择所需的项目。

### 摄像机识别号

提供在屏幕上显示的摄像机识别号和位置。

有关选择和保存各菜单项的信息,请参阅“如何使用键盘控制器”。(第 20 页)

1. 选择 <摄像机设置> - <摄像机识别号>。
2. 使用四向按钮 (▲▼◀▶) 选择所需的字符。  
所选字符将输入到屏幕下方的输入框中。
  - 您最多可以输入 54 个字符,包括字母、数字和特殊字符。
3. 完成后,继续选择 <场所> 以指定摄像机识别号的显示位置。

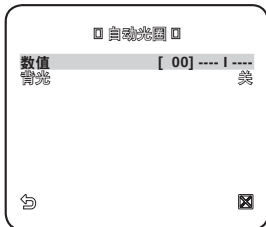


### 光圈

您可以设置光圈以控制进入摄像机的光线强度。

有关选择和保存各菜单项的信息,请参阅“如何使用键盘控制器”。(第 20 页)

1. 选择 <摄像机设置> - <光圈>。
2. 使用左/右 (◀▶) 按钮选择 <自动光圈>。
  - 数值: 选择整体亮度水平。
  - 背光: 选择 <背光补偿> 或 <宽动态>。
    - 宽动态: 在幅度中指定综合级别,在宽动态水平中指定快门速度,或在白平衡中选择 <室外模式> 或 <室内模式>。
    - 背光补偿: 通过指定 <大小> 和 <位置> 设置 <背光补偿> 区域。



- 如果将光圈设置为 <自动光圈>,在调节 AE 和快门速度时固定光圈是您的优先选择。

## 移动

可指定 自动增益水平以控制摄像机移动。

如果要监视在低对比度场景中快速移动的对象,请选择 **很快**,如果要在同样条件下监视移动缓慢的无生命对象可选择 **很慢**。

当日/夜设置为自动时,<移动> 菜单将不可用。

## 数字降噪

降低屏幕上的噪声。此功能在出现杂乱线条的屏幕上尤其有用。

将其设置为 <用户> 可指定水平。

## 高速快门

快门菜单用于设定固定快速电子快门或自动快速电子快门。

## 低速快门

如果视频信号的亮度太低,将激活低速快门功能。

低速快门可以收集单个最大帧率以调节设置。

## 防闪烁

如果设置为 <开>,则快门速度将固定为 1/100 秒。这可防止可能会由垂直同步频率与光源的闪烁频率不相符而引起的屏幕变形。

- 如果速度快门设置为 自动、固定、外部模式/低速快门设置为固定/自动增益设置为固定,则将禁用 <数字稳定> 菜单。

## 暗区补偿

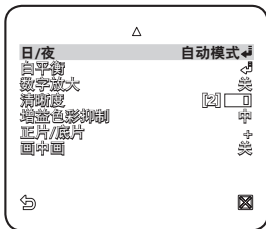
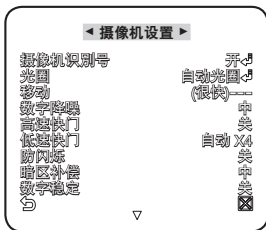
这可纠正不同场景的亮度差异以得到最佳可见度。  
此值越高,纠正效果越明显。

## 数字稳定

自动补偿屏幕上发生的闪烁。

如果设置为 <开>,图像将使用数字变焦放大到补偿区域大小。

- 如果将数字稳定设置为开,则会根据数字放大因数放大补偿区域。  
如果您将数码变焦系数大于扩大变焦因素补偿,数字稳定功能将被取消。



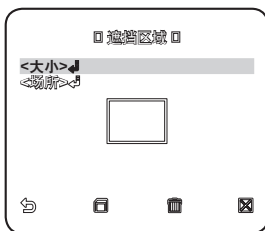
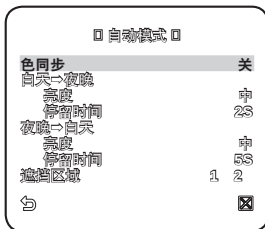
# 摄像机设置

## 日/夜

可根据场景指定录像模式。

有关选择和保存各菜单项的信息,请参阅“如何使用键盘控制器”。(第 20 页)

1. 选择 <摄像机设置> - <日/夜>。
2. 根据照明环境选择一种屏幕过渡模式并设置适当的选项。
  - 白天: 固定为白天模式, 无论场景。
  - 夜晚: 固定为夜晚模式, 无论场景。  
如果“色同步”设置为 <开>, 色同步信号将会输出。
  - 自动: 根据照明环境, 将自动从白天切换至夜晚模式, 或反之。
  - 白天→夜晚/夜晚→白天: 如果设置为 <自动>, 您即可指定在“白天”与“夜晚”之间触发模式切换的亮度水平, 以及时间间隔。
  - 遮挡区域: 如果在夜晚场景中存在一个高亮点光源, 可按需要指定大小和位置。  
夜晚场景中的任何过亮区域将被遮挡。

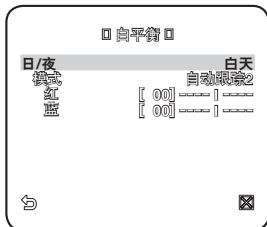


## 白平衡

如果需要调整屏幕亮度,请使用白平衡功能。

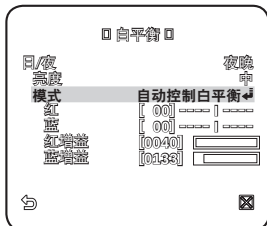
有关选择和保存各菜单项的信息,请参阅“**如何使用键盘控制器**”。(第 20 页)

1. 选择 <摄像机设置> - <白平衡>。
2. 选择设置平衡的一种模式。
  - 白天: 可设置白天模式下的红和蓝值。
  - 夜晚: 可根据环境照明调整 <白平衡>。



3. 根据制定的录像模式, 选择一种白平衡模式并选择必要的选项。

- 亮度: 指定触发从白天模式切换到夜晚模式的亮度水平。
  - 模式: 根据选择的模式, 您可以调整红和蓝颜色值。
    - 红: 调整红色的强度。
    - 蓝: 调整蓝色的强度。
    - 红增益/蓝增益: 手动自动当前色温。
- 只能在自动控制白平衡模式中设置红增益和蓝增益的值。



## 数字放大

可以设置数字缩放因数和位置。

定义缩放因数和位置后,数字放大功能将开始工作。

- 如果数字变焦系数大于实际补偿放大系数, 数字稳定功能将被禁用。

## 清晰度

您可以分别调节垂直和水平清晰度。

# 摄像机设置

---

## 增益色彩抑制

这将会根据自动增益值调整颜色方案。

## 正片/底片

这可将视频亮度信号显示为普通或翻转。

## 画中画

可在同一个屏幕上与主图像一起显示子图像。

- 如果设置了多个加密区域并且将隐私设置设置为开，将会取消激活画中画功能。

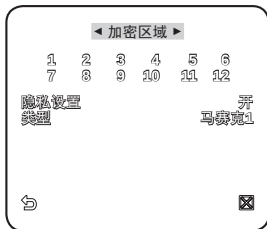
## 加密区域

可设置最多 12 个加密区域,为保护某些对象的隐私在录像时将隐藏这些区域。

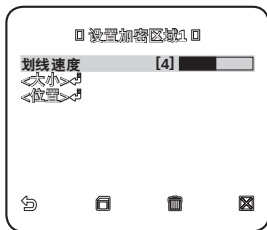
有关选择和保存各菜单项的信息,请参阅“[如何使用键盘控制器](#)”。(第 20 页)

### 区域设置

1. 选择 <主菜单> - <加密区域>。
2. 使用四向按钮 (▲▼◀▶) 选择所需的号码。  
区域设置屏幕将会出现。



3. 选择 <划线速度>。  
指定位置设置的像素单位水平。
4. 选择 <大小>。  
您将会在屏幕上看到点。
5. 使用四向按钮 (▲▼◀▶) 指定四个点中每个点的位置。
6. 选择 <位置>, 并使用四向按钮 (▲▼◀▶) 指定四个点中每个点的位置。
7. 保存更改, 移至下一个屏幕, 选择 <类型>。  
选择 <颜色>, 然后选取所需的颜色。



- 设置一个或多个加密区域并启用隐私功能将禁用画中画功能。

# 摄像机设置

## 其他

您可以重置摄像机或选择 OSD 字体颜色以适合您的偏好。

有关选择和保存各菜单项的信息,请参阅“**如何使用键盘控制器**”。(第 20 页)

### 出厂默认值

1. 选择 <主菜单> - <其他设置> - <出厂默认值>。  
出厂默认值设置屏幕将会出现。
2. 选择 <成功>。  
所有设置均将还原为出厂默认设置。  
但是, 将不会恢复语言设置。



### 字体颜色

您可以设置用户界面的字体颜色。

## 系统信息

您可以检查系统信息。

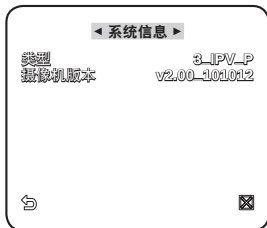
有关选择和保存各菜单项的信息, 请参阅“[如何使用键盘控制器](#)”。(第 20 页)

1. 选择 <主菜单> - <系统信息>

2. 此时将显示当前系统信息。



■ 摄像机类型可能会有不同, 取决于视频信号。



# 网络连接和设置

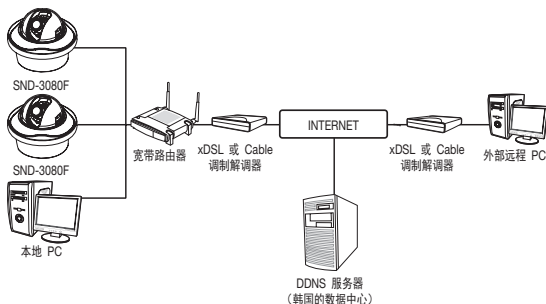
可根据您的网络配置来设置网络的设定。



- 在安装此程序之前或者使用此程序时，请访问 Samsung 网站 [www.samsungsecurity.com](http://www.samsungsecurity.com) 并下载和升级所提供的最新软件版本。

## 将摄像头与使用 XDSL/CABLE 调制解调器的 宽带路由器连接

适用于小型网络环境,如家庭、SOHO 以及普通的商店。



### 配置连接到 宽带路由器

在配置连接到 宽带路由器的本地 PC 的网络设置时,遵循以下说明。

- 选择: <Network Neighborhood> → <Properties> → <Local Area Connection> → <Properties> → <General> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> 或 <Use the following IP address>.
- 若您选择的是<Use the following IP address>, 遵照以下说明操作:
  - 例1) 若 宽带路由器的地址 (LAN IP) 为 192.168.1.1  
IP 地址: 192.168.1.100  
子掩网码: 255.255.255.0  
默认网关: 192.168.1.1
  - 例2) 若 宽带路由器的地址 (LAN IP) 为 192.168.0.1  
IP 地址: 192.168.0.100  
子掩网码: 255.255.255.0  
默认网关: 192.168.0.1

例3) 若 宽带路由器的地址 (LAN IP) 为 192.168.xxx.1  
 IP 地址 : 192.168.xxx.100  
 子掩网码 : 255.255.255.0  
 默认网关 : 192.168.xxx.1



■ 关于 宽带路由器的地址, 请参见产品文档。

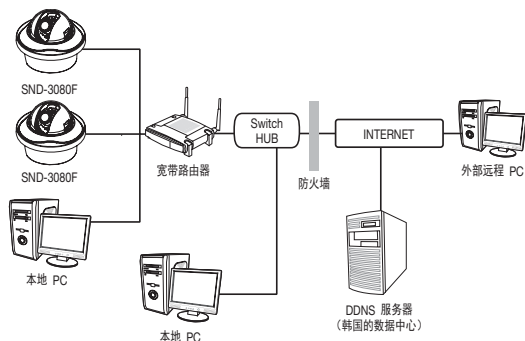
## 检查 宽带路由器是否正确地与 xDSL/Cable 调制解调器连接

在 宽带路由器的设置菜单中选择 <Status>

- 若正确连接, 会显示 ISP 提供的 <IP Address>、<Subnet Mask>和<Gateway>。请记住这些值, 因为外部远程计算机的 宽带路由器需要这些值来连接摄像头。但请注意 ISP 对 <IP Address>、<Subnet Mask>和<Gateway>的设置进行定期更改
- 若 宽带路由器未正确连接, 按[Connect]按钮以尝试连接, 或检查 宽带路由器的设置是否正确。

## 将摄像头与局域网的 宽带路由器连接

用于如企业办公室、建筑、公共写字楼和工厂等大型网络环境。



## 配置连接到 宽带路由器

在配置连接到 宽带路由器的本地 PC 的网络设置时, 遵循以下说明。

- 选择 : <Network Neighborhood> → <Properties> → <Local Area Connection> → <Properties> → <General> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> 或 <Use the following IP address>.

# 网络连接和设置

- 若您选择的是<Use the following IP address>, 遵照以下说明操作:

例 1) 若 宽带路由器的地址 (LAN IP) 为 192.168.1.1

IP 地址: 192.168.1.100  
子掩网码: 255.255.255.0  
默认网关: 192.168.1.1

例 2) 若 宽带路由器的地址 (LAN IP) 为 192.168.0.1

IP 地址: 192.168.0.100  
子掩网码: 255.255.255.0  
默认网关: 192.168.0.1

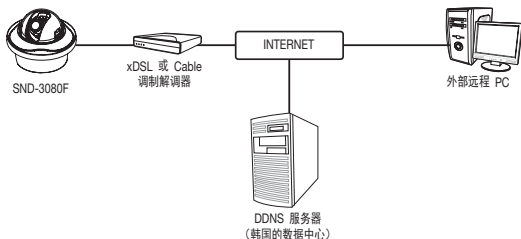
例 3) 若 宽带路由器的地址 (LAN IP) 为 192.168.xxx.1

IP 地址: 192.168.xxx.100  
子掩网码: 255.255.255.0  
默认网关: 192.168.xxx.1



■ 关于 宽带路由器的地址, 请参见产品文档。

## 将摄像头与基于 DHCP 的 XDSL/CABLE 调制解调器直接连接



### 设置 宽带路由器

即可启用使用 DHCP 的调制解调器。

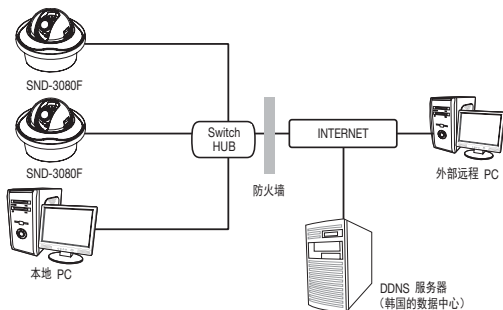
1. 设置静态或动态 IP 地址。(第 35~38 页)
2. 启动与 宽带路由器连接的本地 PC 上的浏览器。
3. 在浏览器的地址栏中输入 宽带路由器的地址。  
例) <http://192.168.1.1>, <http://192.168.0.1> 或 <http://192.168.xxx.1>
  - 对于 DDNS URL 地址, 请参阅“检查 DDNS 地址”。(第 42 页)

4. 当宽带路由器连接后会出现登录窗口并提示输入密码。
  - 登录 IP 和密码请参见 宽带路由器的文档。
5. 在完成后可看到 宽带路由器的设置窗口。在设置菜单 Internet 连接类型，选择“**自动配置 DHCP**”
  - 有关或 Internet 连接类型 DHCP 选择，参见 宽带路由器的文档。
6. 完成后，单击 [Save] 或 [Apply] 按钮保存设置。

## 将摄像头与局域网直接连接

### 连接局域网内的本地 PC 和摄像头

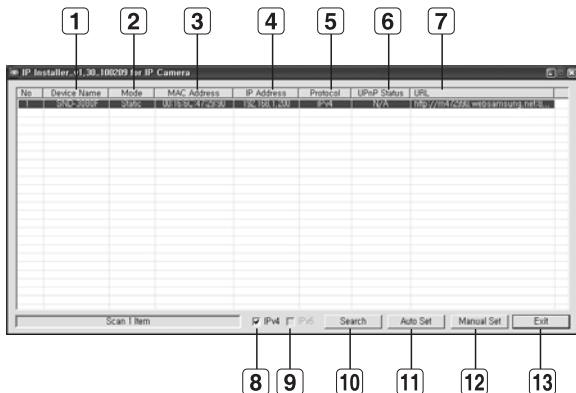
1. 启动本地 PC 上的网络浏览器。
2. 在浏览器的地址栏中输入 IP 地址。



-  ■ 在正确设置防火墙或端口转发前，局域网外部的远程互联网 PC 可能无法连接安装于内部网的摄像头。  
在此情况下，联系网络管理员解决问题。

# 网络连接和设置

## 在 IP INSTALLER 中使用的按钮



| 项目                             | 说明                                                                               |
|--------------------------------|----------------------------------------------------------------------------------|
| <b>1</b> Device Name           | 已连接摄像机的型号名称。<br>单击此列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。                        |
| <b>2</b> Mode                  | 对当前网络连接状态显示 <Static> 或 <Dynamic>。                                                |
| <b>3</b> MAC(Ethernet) Address | 已连接摄像机的以太网地址。<br>单击此列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。                        |
| <b>4</b> IP Address            | IP 地址。<br>单击此列可以按 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。<br>出厂默认设置为“192.168.1.200”。 |
| <b>5</b> 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”。                          |
| <b>6</b> UPnP Status           | 此功能当前不可用。                                                                        |

| 项目                   | 说明                                                                   |
|----------------------|----------------------------------------------------------------------|
| <b>7</b> URL         | DDNS URL 地址可以从外部互联网访问。<br>但是,如果 DDNS 注册失败,此按钮将被摄像机的 <IP Address> 代替。 |
| <b>8</b> IPv4        | 扫描使用 IPv4 设置的摄像机。                                                    |
| <b>9</b> IPv6        | 扫描使用 IPv6 设置的摄像机。                                                    |
| <b>10</b> 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。                 |
| <b>11</b> Auto Set   | <IP Installer> 将自动为您配置网络设置。                                          |
| <b>12</b> Manual Set | 您应该手动配置网络设置。                                                         |
| <b>13</b> Exit       | 退出 IP Installer 程序。                                                  |

## 静态 IP 设置

### 手动网络设置

运行 <IP Installer.exe> 以显示摄像机搜索列表。

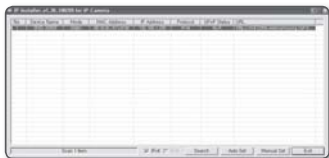
在初始启动时, [Auto Set] 和 [Manual Set] 将呈灰色。



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

- 从搜索列表中选择一个摄像机。  
找到摄像机后面标签上的 MAC (以太网) 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。  
将显示摄像机 <IP Address>、<Subnet Mask>、<Gateway> 和 <HTTP Port> 的默认值。  
默认 <Password> 为 “4321”。
- 在 <Address> 窗格中, 提供必需的信息。

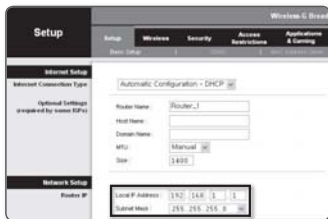
- MAC (Ethernet) Address: 将自动设置适用摄像机的 MAC (以太网) 地址, 因此您无需手动输入。



# 网络连接和设置

## 如果使用 宽带路由器:

- IP Address : 输入 宽带路由器提供的 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 : 宽带路由器的 <Subnet Mask> 将是摄像机的 <Subnet Mask>。
- Gateway : 宽带路由器的 <Local IP Address> 将是摄像机的 <Gateway>。



## 如果不使用 宽带路由器:

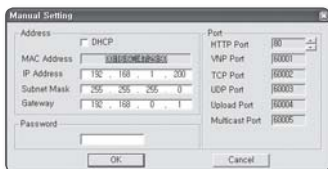
若要设置 <IP Address>、<Subnet Mask> 和 <Gateway>, 请联系网络管理员。



- Device、TCP、UDP、Upload 和 Multicast 的端口值可以手动更改, 并将根据 HTTP 端口值调整。

## 4. 在 <Port> 窗格中, 提供必需的信息。

- HTTP Port : 用于使用互联网浏览器访问摄像机, 默认值为 80。  
使用旋鈕更改 HTTP 端口值。  
端口的起始值是 80, 并以 6 为基数增加, 如 10000、10006、10012。
- VNP Port : 用于控制视频信号传输, 默认值为 60001(TCP)。
- TCP Port : 使用 TCP 协议的信号传输, 默认值为 60002(TCP)。
- UDP Port : 使用 UDP 单播方式的信号传输端口, 默认值为 60003(UDP)。
- Upload Port : 用于升级软件固件, 默认值为 60004(TCP)。
- Multicast Port : 使用 UDP 多播方式的信号传输端口, 默认值为 60005(UDP)。



## 5. 输入密码。

这是访问摄像机的“admin”用户的登录密码。  
默认密码为“4321”。

## 6. 单击 [成功]。

将完成手动网络设置。

## 7. 在完成包括 &lt;IP&gt; 的手动设置后，摄像机将重新启动。

## 如果 宽带路由器连接了多个摄像机

彼此清楚地配置 IP 相关设置和端口相关设置。

| 类别      |                | 摄像机 1         | 摄像机 2         |
|---------|----------------|---------------|---------------|
| IP 相关设置 | IP Address     | 192.168.1.200 | 192.168.1.201 |
|         | 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      | 80            | 10000         |
|         | VNP Port       | 60001         | 10001         |
|         | TCP Port       | 60002         | 10002         |
|         | UDP Port       | 60003         | 10003         |
|         | Upload Port    | 60004         | 10004         |
|         | Multicast Port | 60005         | 10005         |



- 如果 <HTTP Port> 设置为除 80 以外的值，您必须在互联网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://192.168.1.201:10000

## 自动网络设置

运行 <IP Installer.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台摄像机。

找到摄像机后面标签上的 MAC（以太网）地址。

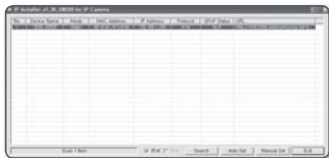
将激活 [Auto Set] 和 [Manual Set] 按钮。

## 2. 单击 [Auto Set]。

Auto Setting 对话框将会出现。

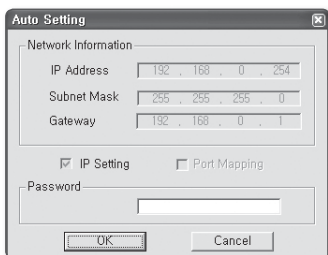
将自动设置 <IP Address>、

<Subnet Mask> 和 <Gateway>。



# 网络连接和设置

3. 输入密码。  
这是访问摄像机的“admin”用户的登录密码。  
默认密码为“4321”。
4. 单击 [OK]。  
将完成自动网络设置。
5. 摄像机将自动完成网络设置，然后重新启动。



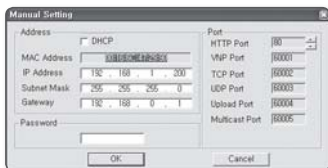
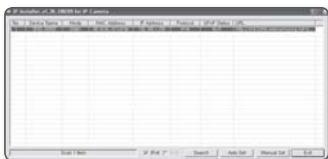
## 动态 IP 设置

### 动态 IP 环境设置

- 动态 IP 环境示例
  - 如果连接了摄像机的 宽带路由器由 DHCP 服务器分配了 IP 地址
  - 如果使用 DHCP 协议将摄像机直接连接到 xDSL 或有线电视网调制解调器
  - 如果 IP 由内部 DHCP 服务器通过 LAN 分配

### 检查动态 IP

1. 从本地 PC，运行 <IP Installer> 以显示分配了 <Dynamic IP> 的摄像机列表。
2. 从列表中选择摄像机，然后单击 [Manual Set] 检查摄像机的 <Dynamic IP>。  
如果取消选取 <DHCP>，您即可将 <IP> 或 <Port> 更改为 <STATIC>。



## 端口范围前移 (端口映射) 设置

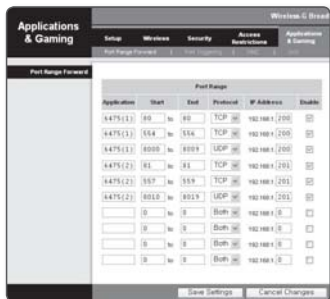
如果您安装了连接摄像机的 宽带路由器,就必须设置在 宽带路由器上前移的端口范围,以便 远程 PC 可以其中的摄像机。

### 手动端口范围前移

1. 从 宽带路由器的 Setup 菜单中, 选择 **<Applications & Gaming>** - **<Port Range Forward>**。

对于第三方 宽带路由器端口范围前移设置, 请参阅该 宽带路由器的用户手册。

2. 对连接到 宽带路由器的每个摄像机选择 **<TCP>** 和 **<UDP Port>**。  
宽带路由器的每个端口号都应该与在摄像机设置菜单的 **<基本>** - **<IP>** 中指定的端口号相符。
3. 完成后, 单击 **[Save Settings]**。  
将保存设置。



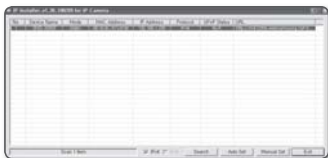
# 网络连接和设置

---

## 从共享的本地 PC 连接到摄像机

---

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



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

## 从远程 PC 通过互联网连接到摄像机

---

由于远程 PC 无法直接访问 <IP Installer>, 您应该使用摄像机的 DDNS URL 访问 宽带路由器网络中的摄像机。

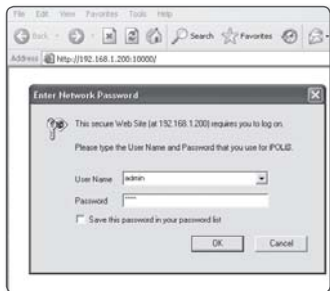
1. 您应该设置 宽带路由器端口范围前移，然后才能访问 宽带路由器网络中的摄像机。
2. 从远程 PC 启动互联网浏览器，并在地址栏中键入摄像机的 DDNS URL 地址，或宽带路由器的 IP 地址。  
例) <http://mfffe42.websamsung.net>
  - 对于 DDNS URL 地址，请参阅“[检查 DDNS 地址](#)”。（第 42 页）

# web 查看器

## 连接到摄像机

### 通常,您应该

1. 启动互联网浏览器。
2. 在地址栏中键入摄像机的 IP 地址。  
例) • IP 地址 (IPv4) : 192.168.1.200  
→ http://192.168.1.200  
- 应该会出现登录对话框。  
• IP 地址 (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111  
→ http://[2001:230:abcd:ffff:0000:0000:ffff:1111]



### 如果 HTTP 端口为除 80 以外的值

1. 启动互联网浏览器。
2. 在地址栏中键入摄像机的 IP 地址和 HTTP 端口号。  
例) IP 地址 : 192.168.1.200:Port number(10000) → http://192.168.1.200:10000  
- 应该会出现登录对话框。

### 使用 URL

1. 启动互联网浏览器。
2. 在地址栏中键入摄像机的 DDNS URL。  
例) URL 地址 : http://mfffe42.websamsung.net  
- 应该会出现登录对话框。

### 通过 URL 连接(如果 HTTP 端口为除 80 以外的值)

1. 启动互联网浏览器。
2. 在地址栏中键入摄像机的 DDNS URL 和 HTTP 端口号。  
例) URL 地址 : http://mfffe42.websamsung.net:Port number(10000)  
→ http://mfffe42.websamsung.net:10000  
- 应该会出现登录对话框。

# web 查看器

## 检查 DDNS 地址

DDNS 地址包括: <以下其中一个小写字母: c、m、p> + <MAC(以太网)地址后 6 位> + <websamsung.net>

如果 MAC(以太网)地址前 6 位是 <00:00:f0>, 小写字母将是 <c>, 或者如果 MAC(以太网)地址前 6 位是 <00:16:6c> 或 <00:68:36> 或 <00:09:18>, 则小写字母将分别是 <m> 或 <p> 或 <i>。

例)- 如果 MAC(以太网)地址是 00:00:f0:ff:fe:42: c + fffe42 + websamsung.net = cffe42.websamsung.net

- 如果 MAC(以太网)地址是 00:16:6c:ff:fe:42: m + fffe42 + websamsung.net = mffe42.websamsung.net

- 如果 MAC(以太网)地址是 00:68:36:ff:fe:42: p + fffe42 + websamsung.net = pffe42.websamsung.net

- 如果 MAC(以太网)地址是 00:09:18:ff:fe:42: i + fffe42 + websamsung.net = iffe42.websamsung.net

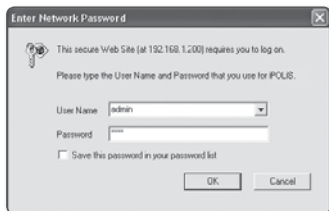


- 上述地址只是示例; 不要使用上述任何地址进行连接。

## 登录

默认的用户 ID 是“admin”, 默认的密码是“4321”。

1. 在 <User Name> 输入框中输入“admin”。
2. 在 <Password> 输入框中输入“4321”。如果更改了密码, 请输入更改的密码。
3. 单击 [OK]。如果已成功登录, 您将看到 Live Viewer 屏幕。



- 为安全起见, 请确保在 <基本> - <用户> 中更改了密码。管理员 ID, 即“admin”被固定, 无法更改。
- 如果您在完成输入之后选取“Save this password in your password list”选项, 则从下次起在不提示输入登录信息时即可自动登录。



- 为此, 您的电脑需要安装 DirectX 8.1 或更高版本。  
您可从 <http://www.microsoft.com/download> 免费下载最新的 DirectX。  
如果您使用 Internet Explorer 7.0 或 8.0 作为默认的 Web 浏览器, 就可以使用 100% 的屏幕比查看最佳图像质量。降低比率可能会切掉边框上的图像。

## 安装 ACTIVEX

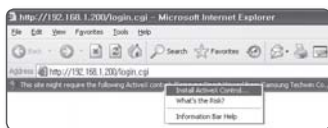
如果首次连接到摄像机,您将会看到安装消息。然后,安装所需的 ActiveX 以访问摄像机并在摄像机内实时控制视频。

### 对于 Windows XP Service Pack 2 用户

1. 单击在首次访问摄像机时弹出的安装消息。



2. 单击 <Install ActiveX control...>。



3. 安全性警告弹出窗口将会出现, 单击 [Install]。



4. 访问摄像机后如果已正确安装了所需的 ActiveX, 应该会出现现场屏幕。

- 对于正常安装, 请按以下方式设置拦截弹出窗口设置:  
Internet Explorer → 工具 → 拦截弹出窗口 → 总是允许从当前网站弹出窗口 (A)



# web 查看器

## 使用现场屏幕



| 项目             | 说明                                                                                 |
|----------------|------------------------------------------------------------------------------------|
| <b>1</b> SD 搜索 | 移动到屏幕从 SD 卡搜索事件图像。                                                                 |
| <b>2</b> 设置    | 移至设置屏幕。                                                                            |
| <b>3</b> 简介    | 您可以检查固件版本、序列号和制造商信息。                                                               |
| <b>4</b> 重置警报  | 重置警报图标。(警报和移动图标消失。)                                                                |
| <b>5</b> 捕捉    | 以 .jpeg 或 .bmp 格式将快照另存为图像文件。                                                       |
| <b>6</b> 打印    | 打印输出当前图像。                                                                          |
| <b>7</b> 录制    | 以 .avi 格式将快照另存为视频文件。                                                               |
| <b>8</b> 全屏    | 全屏显示现场屏幕。                                                                          |
| <b>9</b> 视频格式  | 您可以设置视频文件的视频格式 (MJPEG, H.264/MPEG4)。上下文菜单因在活动查看器 <选择 H.264 & MPEG4 视频> 中的编解码器而有不同。 |
| <b>10</b> 警报输出 | 开：激活指定的警报输出端口。<br>关：关闭指定的警报输出端口。<br>脉冲：以取消激活之前指定的同样多时间激活警报输出端口。                    |

| 项目                | 说明                                                      |
|-------------------|---------------------------------------------------------|
| <b>11</b> 摄像机 OSD | 用于检索和自定义摄像机设置菜单。有关选择和保存各菜单项的信息, 请参阅“如何使用键盘控制器”。(第 20 页) |
| <b>12</b> 查看器屏幕   | 显示屏幕上的现场视频。                                             |

## 备份

您可以捕捉、打印输出和保存指定路径中的快照。

### 捕捉快照

- 在场景上单击  进行捕捉。  
捕捉对话框应该会出现。
  - 单击 **[确认]**。屏幕截图会保存在指定的路径中。
- 默认的文件路径
    - Windows XP : C:\Program Files\Samsung\SND-3080F\SnapShot\Live  
如果您想更改路径, 请单击 **[设置路径 (...)]** 并指定路径。
    - Windows Vista, Windows 7 : C:\users\[User ID]\Documents\Samsung\SND-3080F\SnapShot\Live  
在 Windows Vista, Windows 7 系统中, 要保存的路径将被固定。
  - 屏幕截图文件将会自动命名, 格式为 <IP address\_Port number\_YYYYMMDD\_hhmmss\_index>。  
例) 192.168.1.200\_60001\_20101012\_170331\_00



### 打印输出屏幕截图

- 在场景上单击  进行打印。  
打印设置对话框将会出现。
- 指定已连接的打印机名称, 然后单击 **[OK]**。



# web 查看器

## 录制视频

1. 在场景上单击 [ ] 进行录制。
2. 您将会看到保存为 AVI 对话框；提供必需的信息。
  - 保存路径：您可以更改默认的保存路径。
  - 文件名：您可以更改默认的文件名。
  - 硬盘最小剩余空间：如果硬盘上的可用空间小于录制的空间，录制将被强行结束。
3. 单击 [确认]。  
录制将会从在查看器屏幕上显示 <REC> 开始。视频文件将保存在指定的路径中。
4. 如果您想退出录制，可再次单击 [ ]。

- 默认的文件路径

- Windows XP : C:\Program Files\  
Samsung\SND-3080F\VideoClip\Live  
如果您想更改路径，请单击 [设置  
路径 (...)] 并指定路径。

- Windows Vista, Windows 7 :

- C:\users\[UserID]\Documents\Samsung\  
SND-3080F\VideoClip\Live

- 在 Windows Vista, Windows 7 系统中，要保存的路径将被固定。

- 屏幕截图文件将会自动命名，格式为 <IP address\_Port number\_YYYYMMDD\_hh mmss\_index>。

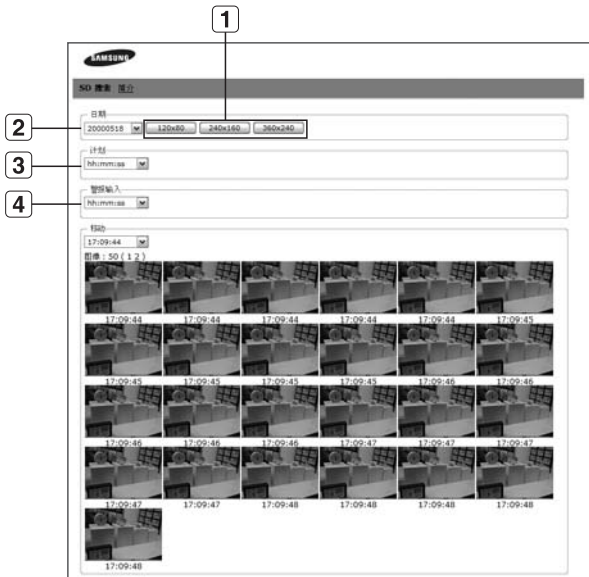
- 例) 192.168.1.200\_60001\_20101012\_170406\_00

- 如果您想播放 .avi 文件，则必须在系统上安装相应的 DivX 编解码器。  
您可从 <http://sourceforge.net/projects/ffdshow/> 免费下载 DivX。
- 必须具有用于 MPEG4 的特定编解码器才能播放 MPEG4 格式的视频。  
可从以下网址下载用于 MPEG4 视频的编解码器 [www.samsungsecurity.com](http://www.samsungsecurity.com)



## 使用 SD 搜索查看器屏幕

1. 在现场屏幕中，单击 <SD 搜索> 选项卡。
2. SD 搜索屏幕 将会出现。



| 名称            | 功能与描述               |
|---------------|---------------------|
| <b>1</b> 图像尺寸 | 缩略图图像根据所选的大小显示。     |
| <b>2</b> 日期   | 您可以选择所需的日期来搜索发生的事件。 |
| <b>3</b> 计划   | 您可以选择所需的时间来搜索计划事件。  |
| <b>4</b> 警报输入 | 您可以选择所需的时间来搜索报警事件。  |



## 配置视频设置

您可以设置视频分辨率和质量,并选择所需的编解码器。

### 1. 选择 <基本> - <视频>。

视频设置屏幕将会出现。

- 亮度: 在 1 与 100 之间调整屏幕亮度。
- 对比度: 在 1 与 100 之间调整对比度。
- 解像度: 设置 MPEG4、H.264 和 MPEG 文件的视频大小。
  - NTSC: 4CIF(704x480), VGA(640X480), CIF(352X240)
  - PAL: 4CIF(704x576), VGA(640X480), CIF(352X288)
- 质量: 在 1 与 10 之间调整图片质量。
- 帧率:
  - NTSC: 从 30 fps、15 fps、8 fps、3 fps 和 1 fps 中选择一项。
  - PAL: 从 25 fps、13 fps、6 fps、3 fps 和 1 fps 中选择一项。
- 比特率控制\*: 为压缩方式选择 CBR (恒定比特率) 或 VBR (可变比特率)。
  - 如果选择 VBR, 您就无法设置目标比特率。
- 目标比特率: 以指定的比特率传输视频信号。
- 压缩: 以 5 为基准从 5 到 100 调整压缩率。
- 编码优先级: 将视频传输方法设置为帧率或质量。
- GOP\* 大小: 在 5 至 15 之间选择 GOP 大小。
- 解块: 这将软化微距块之间的边缘。
- 消除交错信号: 您可以设置网格噪音降低功能。
  - 此功能仅当 MPEG4 视频的分辨率为 4CIF 时才可以设置。
- 概图: 为 H.264 靠模方法选择基线或主。
- 熵编码: 减少因编码引起的压缩损失。
- 预动作: 通过判断移动向量估计像素的移动。
- 翻转模式: 使摄像机捕捉的图像上下翻转。
- 镜像模式: 使摄像机捕捉的图像水平翻转。



# 设置屏幕



- 如果您将配置文件设置为基线，则熵编码仅限 CAVLC\* 可用；如果将其设置为主，则熵编码对 CAVLC\* 和 CABAC\* 均可用。
- 如果您将宽动态设置为<关闭>，或 MPEG4 视频解析度不是 4CIF，则将不能使用 MPEG4 编解码器去隔行功能。

2. 完成后，单击 [应用]。  
将保存设置。

## 配置 IP 设置

1. 选择 <基本> - <IP>。

IP 设置窗口将会出现。

- IP 配置：为摄像机设置 IP 和端口设置。

- IP 类型：在 <静态 IP>、<动态 IP> 和 <PPPoE IP> 中选择一个。

- 如果选择 <PPPoE IP>，您可以提供可选 ADSL IP 和密码。但是，VNP 和 RTP 的多播项目（多点广播地址、端口、TTL）将会消失。

- MAC 地址：显示以太网 MAC 地址。这常用来创建 DDNS 地址。
- IP 地址：显示当前 IP 地址。
- 子网掩码：显示所设 IP 的 <子网掩码>。
- 网关：显示所设 IP 的 <网关>。
- DNS 服务器：显示 DNS（域名服务）服务器地址。
- HTTP Web 服务器端口：用于通过 Web 浏览器访问摄像机的 HTTP 端口。默认值是 80(TCP)。
- 上传端口 (TCP)：用于升级软件固件，默认值为 60004(TCP)。

- IPv6 配置：获取访问 IPv6 网络的 IPv6 地址。
  - VNP 配置：设置用于根据 Samsung 协议传输视频信号的端口。
    - 设备端口 (TCP)：用于控制视频信号传输，默认值为 60001(TCP)。
    - TCP 流端口：使用 TCP 协议的视频信号传输，默认值为 60002(TCP)。
    - UDP 流端口：用于根据 UDP 单播协议传输视频信号的 UDP 端口。默认值是 60003(UDP)。
    - 组播地址：用于根据 UDP 多播协议传输视频信号的 IP 地址。默认值为 225.128.1.128，但是，如果您想更改此地址，可在 224.0.0.0 到 239.255.255.255 范围内指定。
    - 组播端口：用于根据 UDP 多播协议传输视频信号的 UDP 端口。默认值是 60005(UDP)。
    - TTL\*：为 VNP 数据包设置 TTL。默认值为 63，但是，如果您想更改此值，可在 0 到 255 范围内指定。
  - RTP 配置：您可以设置 RTP 协议。
    - RTSP 端口：您可设置 RTSP 端口。
    - 流端口：用于根据 RTP 协议传输视频信号。默认范围是 61000 到 61999。
    - 组播地址：用于根据 RTP 协议传输视频信号的 IP 地址。
    - 组播端口：用于根据 RTP 协议多播传输视频信号。
    - TTL\*：可为 RTP 数据包设置 TTL。
2. 完成后，单击 [应用]。  
 将保存您的设置并重新启动系统。  
 将关闭当前打开的 Web 浏览器。



- 如果宽带路由器已连接多台摄像机，您应为每台分别配置不同的 IP 和端口设置。

# 设置屏幕

## 设置用户帐户

1. 单击 **<基本>** - **<用户>**。

用户设置窗口将会出现。

- 登录验证：您可以设置用户验证的登录。
  - 如果您选择 **<启用>**，用户应该完成登录验证；如果选择 **<禁用>**，每个用户都可以无需验证访问系统，只要有普通用户权限即可。
  - 完成后，单击 **[应用]**。
- 用户登录 ID/密码列表：显示可访问的用户 ID、密码及分级列表。
  - 您最多可以添加 10 个用户。
  - 管理员 ID 是“**admin**”。
  - 管理员 ID 的密码可以更改，但是无法添加或删除。

2. 完成后，单击 **[应用]**。

将保存设置。

将关闭当前打开的 Web 浏览器。



## 用户注册

1. 在用户设置窗口中，单击 **[插入]**。

注册用户窗口将会出现。

2. 分别提供 **<用户 ID>**、**<密码>** 和 **<确认密码>**。您可以分别对用户 ID 和密码最多输入 9 个字母数字字符或特殊字符（要排除一些）。

3. 选择用户级别。

对新用户的权限选择 **<操作员>** 或 **<用户>**。

4. 单击 **[应用]**。

即完成用户注册。



- 现有的用户 ID 无法重复新增。
- 无法注册 admin ID 或 guest ID。

## 编辑注册的用户账户

1. 在“用户”设置窗口中，选择要更改的用户 ID。
2. 在用户设置窗口中，单击 [修改]。  
修改用户窗口将会出现。
3. 根据需要更改 <用户 ID>、<密码>、<确认密码> 和 <级别>。
4. 单击 [应用]。  
将更改选择的用户 ID。

修改用户

用户 ID

密码

确认密码

级别

## 删除用户 ID

1. 在用户设置窗口中，选择要删除的用户 ID。
2. 在用户设置窗口中，单击 [删除]。将删除选择的用户 ID。



### ■ 关于用户权限

- 管理员：可以使用所有功能（更改/控制设置）。
- 操作员：只能使用在 Live Viewer 中可用的功能。
- 用户：只能在 Live Viewer 中查看视频。

## 设置显示语言

1. 单击 <基本> - <语言>。  
语言设置窗口将会出现。您可以从 7 种语言（英语/韩语/中文/法语/意大利语/西班牙语/德语）中选择一种。
2. 完成后，单击 [应用]。  
将会应用选择的语言。

语言

选择语言

- ☐ English
- ☐ 한국어
- ☒ 中国語
- ☐ Français
- ☐ Italiano
- ☐ Español
- ☐ Deutsch

# 设置屏幕

## 系统设置

### 设置日期/时间

您可以从 NTP 服务器或 PC 获得当前系统时间,用于时间设置。

1. 选择 <系统> - <日期&时间>。  
日期&时间设置窗口将会出现。
2. 如果您选择手动, 请手动输入日期和时间。  
将保存设置。
  - 当前系统时间: 将应用在系统时间设置中指定的时间。
  - 系统时间设置: 您可以与 NTP 服务器 (时间服务器) 或 PC 同步系统时间, 或者手动指定。



- 您可以指定介于 2000 年 1 月 1 日与 2037 年 12 月 31 日之间的时间。

### 设置系统时间

1. 在 <地址> 中选择所需的地址, 或选择 <与 PC 查看器同步>。
2. 如果您选择手动, 请手动输入日期和时间。
3. 单击 [应用]。将会应用指定的系统。



- <NTP 服务器 IP> 由公共机构提供, 是随时更改的列表。
- 在本地网络中, 必须手动定义独立的 NTP 服务器。



- 当前时间可能因计算机区域 (GMT 和 DST) 和国家 (PC 时间配置) 设置而有同。

## 检查日志信息

选择 **<系统>** - **<日志>**。日志信息列表将会出现。

- **系统日志列表**：显示关于系统更改的日志信息以及时间与 IP 地址。
  - 用户登录：显示目前登录到摄像机的用户。
  - 视频配置更改：显示视频设置更改。
  - 系统时间更改：显示时间更改。
  - 系统已启动：显示打开摄像机的时间。



- 最多可记录 2000 条日志。  
如果日志数目大于 2000，  
则日志列表最下面的日志将被新日志取代。



## 更新软件

选择 **<系统>** - **<软件更新>**。

软件更新窗口将会出现。



### 如何更新软件

1. 在软件更新窗口中，单击 **[Browse...]**。  
打开对话框将会出现。
2. 选择可更新的文件，并单击 **[Open]**。
3. 在软件更新窗口中，单击 **[安装]**。  
选择的文件将被解压缩以便开始更新。  
完成更新可能需要几分钟时间。
4. 完成软件更新后，将提示您重新启动系统。
5. 单击 **[确定]** 以重新启动系统。  
由于当前连接断开，因此您必须再次连接到系统。



# 设置屏幕



- 如果网络断开、电源供应失败或在更新期间 PC 强行操作，则系统根本不会工作。

## 重置系统

如果系统工作不正常或造成问题,请重新启动或重置系统。

选择 <系统> - <重置>。

重置窗口将会出现。



- 重新启动：重新启动系统。
- 出厂默认设置：通过以下两个选项将系统设置重置为出厂默认设置：
  - 网络参数之外：重置除网络参数之外的所有设置。
  - 全部：将所有设置恢复为默认值。此功能与按摄像机内部的 [RESET] 按钮功能相同。



- 在系统重置或重新启动后，您应该重试连接到摄像机。
- 等系统完成重新启动可能需要几分钟时间。等待系统完成重新启动后，再重试连接。
- 在执行 <出厂默认设置> 后，您必须运行 <IP Installer.exe> 程序更改基本的网络设置，如 IP 地址、子网掩码、网关等，然后才能连接到互联网。

## 设置 HTTPS

### 1. 选择 <系统> - <HTTPS>。

HTTPS 设置窗口将会出现。

- 安全连接系统：选择要使用的安全连接系统。若要使用对安全连接系统要求公共证书的安全连接模式，您必须在系统上安装由证书颁发机构颁发的签名证书。



- 安装公共证书：若要安装摄像机证书，您需要键入证书名称（可能由用户随意分配）、颁发机构颁发的证书文件以及密钥文件。完成后，单击 [安装]。  
如果成功安装了证书，将显示用户定义的证书名称。  
此外，还会激活上方的 <HTTPS(使用公共证书的安全连接模式)>选项按钮。



- 若要使用 HTTPS 模式访问摄像机，您必须以 “https://<Camera\_IP>” 形式键入摄像机的 IP 地址。

2. 完成后，单击 [应用]。  
Web 查看器将切换到设置安全连接系统。

## 重叠设置

您可以在屏幕上显示文本。

### 设置文本

1. 选择 <重叠> - <重叠文本>。  
重叠文本设置窗口将会出现。

2. 完成后，单击 [应用]。  
将保存设置。

- 重叠文本设置：如果您选择 <禁用>，将不会显示重叠文本；如果选择 <启用>，将在屏幕上显示重叠文本。
- 显示日期：在屏幕底部显示日期信息。
  - 输出格式：选择日期信息的显示格式。  
YYYY-MM-DD：年-月-日 / MM-DD-YYYY：月-日-年 / DD-MM-YYYY：日-月-年
- 显示时间：在屏幕底部显示时间信息。
  - 输出格式：选择时间信息的显示格式。  
24hr：以 24 小时制显示时间。  
12hr：以 12 小时制显示时间。
- 文本颜色：对文本颜色选择黑色或白色。
- 背景颜色：对背景颜色选择黑色或白色。



# 设置屏幕

## 事件设置

### 设置事件传输功能

在出现警报事件时,您可以设置 FTP/电子邮件服务器 (SMTP) 传输在摄像机中存在的警报图像。

选择 **<事件>** - **<传输设置>**。  
图像传输设置窗口将会出现。



- 有关商业 SMTP 服务的详细信息,请联系 SMTP 服务提供商。

### 测试 FTP 传输

单击 **[测试]**。

这将测试是否正确地将图像传输到指定的 FTP 服务器。

在测试 FTP 服务器连接并完成传输时,将显示 **<(已验证)>** 消息。

如果测试失败,您将会看到错误消息。如果出现这种情况,请再次检查 FTP 服务器状态或设置。

- **FTP 传输**: 您可以使用此设置将警报图像传输到 FTP 服务器。如果初始 FTP 服务器设置和连接状态没有验证,将出现 **<(未验证)>** 消息。
  - 使用被动方式: 当被动方式连接由于防火墙或 FTP 服务器设置无法避免时,选择此选项。
  - FTP 服务器地址: 输入警报图像将传输到的 FTP 服务器 IP 地址。

- 上传路径：您可以指定将警报图像传输到的 FTP 目录的路径。  
您可以通过在该字段中键入 </目录名称> 或 <目录名称> 指定路径。  
如果没有指定任何内容，路径将默认为 FTP 服务器的根目录。
- 端口：FTP 端口默认为 21。该值可以根据 FTP 服务器设置进行更改。
- 用户 ID：提供访问 FTP 服务器的用户帐户 ID。
- 密码：提供访问 FTP 服务器的用户帐户密码。
- **子邮件 (SMTP) 传输**：您可以使用此设置将警报图像传输到电子邮件服务器。此功能仅适用于 SMTP 电子邮件服务器。  
当初始 SMTP 服务器设置和连接没有验证时，将出现 <未验证> 消息。
  - SMTP 服务器地址：输入您在发送电子邮件时使用的 SMTP 服务器地址。  
例) 10.240.56.228
  - 端口：输入您在发送电子邮件时使用的端口号。默认值是 25。
  - 用户 ID：提供访问 SMTP 服务器的用户帐户 ID。
  - 密码：提供访问 SMTP 服务器的用户帐户密码。
  - 电子邮件发件人：输入电子邮件发件人的地址。如果发件人地址不正确，来自发件人的电子邮件可能会被 SMTP 服务器分类为垃圾邮件，并且可能不发送。
  - 电子邮件收件人：输入电子邮件收件人的地址。
  - 标题：输入要发送的电子邮件主题。
  - 信息：输入要发送的电子邮件内容。

# 设置屏幕

## 测试电子邮件传输

单击 [测试]。

这将测试是否正确地将图像传输到指定的 SMTP 服务器。

在测试 SMTP 服务器连接并完成传输时，将显示 <(已验证)> 消息。

如果测试失败，您将会看到错误消息。

如果出现这种情况，请再次检查 SMTP 服务器状态或设置。



## 若要设置录制

1. 单击<事件> - <录制设置>。

录制设置窗口出现。

2. 若要完成设置，单击[应用]按钮。  
设置已保存。

- SD 卡 :能够让您验证保存在 SDHC 记忆卡中的数据并格式化记忆卡。可设置自动删除在某个时间段之前已录制的电影剪辑（例如：1 个星期、1 个月或 1 年）。
- 选项 : 决定是否希望接收容量不足警告的电子邮件通知。



## 设置警报图像

您可以配置通过 FTP/电子邮件 (SMTP) 发送信息或将录制的内容储存在 SD 内存卡。当发生事件或激活预约传输功能时,选择传输方式。

### 1. 选择 <事件> - <警报图像>。

警报图像设置窗口将会出现。



- **传输模式**：从 FTP 传输和电子邮件传输中选择警报图像传输模式。

- FTP 传输：发送到指定 FTP 地址的图像。
- 电子邮件传输：发送到指定电子邮件地址的图像。
- SD 卡录制：将图像保存到 SD 内存卡。



- 如果没有插入 SD 内存卡, 相应的按钮将禁用。  
在某些情况下, 将 SD 内存卡插入插槽并刷新以启动此按钮。



- 如果在按下按钮时弹出 SD 内存卡, 摄像机将自动重新启动。

- **已传输的图像命名设置**：您可以设置在触发警报时或计划传输过程中发送的警报图像的文件名。

- **预先/延迟警报图像**：您可以设置保存之前或延迟警报图像。

- 图像编号：每秒帧率可以是 1、2、3 和 5 之一。
- 预先警报持续时间：预先警报持续时间可以是 5 秒、10 秒、15 秒和 30 秒之一。在触发警报之前, 您可以发送最长 30 秒的预先警报图像。(最长时间取决于帧率)
- 延迟警报持续时间：延迟警报持续时间可以是 5 秒、10 秒、15 秒和 30 秒之一。在触发警报之前, 您可以发送最长 30 秒的延迟警报图像。(最长时间取决于帧率)



- 预先/延迟警报持续时间在 SMTP 传输模式中不可用。  
在相应的时间将仅传输一个图像。

### 2. 完成后, 单击 [应用]。

将保存设置。

# 设置屏幕

## 设置警报输入

1. 选择 **<事件>** - **<警报输入 1>** 或 **<警报输入 2>**。

警报输入设置窗口将会出现。

2. 完成后，单击 **[应用]**。

将保存设置。

- **输入设备设置**：根据摄像机背面的警报感应器特性选择输入类型。

- 关：关闭警报输入设置。
- 常开：它通常是打开的，但是如果关闭，将触发警报。
- 常闭：它通常是关闭的，但是如果打开，将触发警报。

- **激活时间**：您可以设置在出现警报时执行特定命令的时间。

- 始终：在发生警报时，总是执行指定的命令。
- 仅预约时间：仅在指定的工作日或时间发生警报时，执行指定的命令。

- **动作**：您可以设置在发生警报时执行的操作。

- 警报输出：设置将警报信号传输到的警报输出端口。
- 输出持续时间：设置在出现警报时将警报信号输出到指定警报输出端口的时间段。如果在警报输出过程中探测到新警报事件，将根据最近警报的探测时间重新计算延迟时间。
- 警报图像传输：如果您选择 **<开>**，就可以根据 **<事件>** - **<传输设置>** 中的设置将 JPEG 图像通过 FTP/电子邮件 (SMTP) 发送到登记地址或保存在 SD 内存卡中。



## 设置移动探测

1. 指定移动探测的使用。
2. 选择移动探测的灵敏度级别。
3. 将光标放在视频的一个点上，然后将它拖到所需的任何部分。
  - 最多可以指定 4 个移动探测区域。
4. 指定激活时间和激活条件。
  - 有关 <激活时间> 和 <动作> 的详细信息，请参阅“警报输入”。（第 62 页）
5. 完成后，请单击 [应用]。

移动

移动探测功能

☐ 禁用
 ☒ 启用

灵敏度

灵敏度 [低]

移动探测设置



激活时间

☒ 即时
 ☐ 检测的时间

☒ 日
 ☒ 一
 ☒ 二
 ☒ 三
 ☒ 四
 ☒ 五
 ☒ 六

开始时间 [ 5:00 ] + [ 0:00 ]
 结束时间 [ 9:00 ] + [ 59:00 ]

动作

警报输出 [无]

输出持续时间 [ 3 秒 ]

警报图像传输 [无]

应用

# 设置屏幕

## 设置计划的传输

您可以设置以某个时间间隔将 JPEG 图像通过 FTP/SMTP 服务器传输到已注册地址或保存在 SD 内存卡中。

### 1. 选择 <事件> - <计划>。

计划传输设置窗口将会出现。

#### ● 预约传输功能：

如果选择 <启用>，将激活预约传输功能；如果选择 <禁用>，将会取消激活。

- **传输时间间隔：**您可以设置传输图像的时间间隔。您可以设置间隔单位 <秒> 或 <分>；也可以设置每 5/15/30/45/60 秒钟传输一个图像，或每 5/15/30/45/60 分钟传输一个图像。

- **激活时间：**您可以设置在出现计划传输事件时执行特定命令的时间。

- 始终：总是以设置的间隔发送图像。
- 仅预约时间：仅在指定的工作日或时间发送图像。

### 2. 完成后，单击 [应用]。

将保存设置。



## 设置视频传输模式

您可以根据视频传输模式和网络速度控制传输率。

1. 选择 **<网络>** - **<流类型>**。  
视频传输设置窗口将会出现。
2. 完成后，单击 **[应用]**。  
将保存设置。



- **VNP 流**：您可以设置用于现场直播服务的 Samsung 协议 (VNP)。
  - 协议：从 TCP\*、UDP(单播)\*和 UDP(多播)\*中选择视频传输协议。
    - 不支援多播架构 (MBone)；您可以仅在多播本地网络环境中访问摄像机。
- **RTP 流**：您可以设置用于现场直播服务的 RTP 协议。
  - 协议：从 UDP(单播)和 UDP(多播)中选择视频传输协议。

## 设置 DDNS

DDNS 是动态域名服务的缩写,可以将摄像机的 IP 地址转化成一般主机名,以便用户可以轻松地记住它,并且能够以固定的主机名连接摄像机,即使摄像机的 IP 地址可能会动态更改。

1. 选择 **<网络>** - **<DDNS>**。  
DDNS 设置窗口将会出现。
2. 完成后，单击 **[应用]**。  
将保存设置。

■ 若要检查 DDNS 地址，请参阅“**检查 DDNS 地址**”。(第 42 页)



# 附录

## 概图

| 摄像机设置菜单 |      | 标准          | 道路交通        | 背光    | 日/夜         | 娱乐场所  | 银行          |
|---------|------|-------------|-------------|-------|-------------|-------|-------------|
| 上一级菜单   | 子菜单  |             |             |       |             |       |             |
| 光圈      |      | 自动光圈        | 自动光圈        | 自动光圈  | 自动光圈        | 自动光圈  | 自动光圈        |
|         | 自动光圈 | -           | -           | -     | -           | -     | -           |
|         | 镜头   | 直流驱动        | 直流驱动        | 直流驱动  | 直流驱动        | 直流驱动  | 直流驱动        |
|         | 数值   | 0           | 0           | 0     | 0           | 0     | 0           |
|         | 背光   | 关           | 关           | 宽动态   | 关           | 关     | 宽动态         |
| 移动      |      | (很快)<br>--- | (很快)<br>--- | 标准    | (很快)<br>--- | 慢     | (很快)<br>--- |
| 数字降噪    |      | 中           | 中           | 中     | 中           | 中     | 中           |
| 快门      |      | 关           | 自动 1/250    | 关     | 关           | 关     | 关           |
| 低速快门    |      | 自动 X4       | 自动 X2       | 自动 X4 | 自动 X4       | 自动 X4 | 自动 X4       |
| 暗区补偿    |      | 中           | 中           | 中     | 中           | 中     | 中           |
| 日/夜     |      | 自动          | 自动          | 白天    | 自动          | 白天    | 自动          |
|         | 夜晚   | -           | -           | -     | -           | -     | -           |
|         | 色同步  | 关           | 开           | 关     | 关           | 关     | 关           |
| 白平衡     |      | 白天          | 日/夜         | 白天    | 日/夜         | 白天    | 白天          |
|         | 白天   | -           | -           | -     | -           | -     | -           |
|         | 模式   | 自动跟踪2       | 自动跟踪1       | 自动跟踪1 | 自动跟踪1       | 自动跟踪1 | 自动跟踪2       |
|         | 红    | 0           | 0           | 0     | 0           | 0     | 0           |
|         | 蓝    | 0           | 0           | 0     | 0           | 0     | 0           |
|         | 夜晚   | -           | -           | -     | -           | -     | -           |
|         | 亮度   | 自定义设置       | 中           | 自定义设置 | 中           | 自定义设置 | 自定义设置       |
|         | 模式   | 关           | 自动跟踪2       | 关     | 自动跟踪2       | 关     | 关           |
|         | 红    | 自定义设置       | 0           | 自定义设置 | 0           | 自定义设置 | 自定义设置       |
|         | 蓝    | 自定义设置       | 0           | 自定义设置 | 0           | 自定义设置 | 自定义设置       |
| 清晰度     |      | 2           | 2           | 2     | 2           | 2     | 2           |

## 术语

- **GOP**: 默认值是 15。如果设置为 15, 则每 15 帧将输出一个 I 帧, 因为一个 I 帧和 14 个 P 帧构成 GOP。  
GOP 越小, 质量越好; 但是, 比特率及数据大小将增加, 导致 fps 较小。GOP (图片组) 是用于 MPEG4 和 H.264 格式压缩的视频帧, 表示从初始 I 帧 (关键帧) 到下一个 I 帧的帧集合。I 帧是压缩的基本帧, 也称为关键, 包含一个完整的图像数据。P 帧仅包含从上述 I 帧更改的数据。
- **熵编码**: 用于从编码中减少压缩损失的数据传输技术。
  - CAVLC (自适应变长码编码): 比 CABAC 记录更高的压缩损失率。
  - CABAC (自适应二进制算术编码): 表明比 CAVLC 的压缩损失更小。
- **比特率控制**
  - CBR (恒定比特率)  
这将始终以相同的大小传输视频数据, 不管视频复杂程度如何。视频质量可能会降低, 取决于视频复杂程度。
  - VBR (可变比特率)  
要传输的视频数据量可能会有不同, 取决于视频复杂程度。这可以保证始终以相同的质量接收视频数据。。
- **TTL**: TTL 表示“生存时间”, 您可以指定来防止丢失通过多阶段路由器的数据包。每个路由器在数据包每次通过它时会减小 TTL 值; 如果 TTL 值达到 0, 则数据包无法再通过路由器。
- **TCP**: 它是用于要求可靠性的传输的普通用途协议。通过在发件人和收件人之间的持续通信, 它可以提供高可靠的数据传输; 但是, 它会模拟以高速实时传输大量数据。它能够以相对较低的速度通过 xDSL 和电缆网可靠传输数据。
- **UDP (单播)**: 它表示仅在一个发射器和一个接收器 (1:1) 之间传输数据的系统。
- **UDP (多播)**: 它表示在传输和接收终端之间一对多 (1:N) 的数据传输协议; 虽然它能够减少网络负荷, 但是它需要有 <多播> 路由器。有关安装摄像机的网络是否支持 <多播> 的详情, 请联系网络管理员。
- **UDP**: 它是适合以高速传输大量数据 (如多媒体数据) 的协议。但是, 通过使用非连接结构, 它比 TCP 记录更高的传输效率, 尤其在速度超过 100Mbps 的高 LAN 环境中。

# 附录

## 规格

| 项目     |         |    | 说明                                                                                                                                                 |                 |
|--------|---------|----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|        |         |    | NTSC                                                                                                                                               | PAL             |
| 摄像机类型  | 彩色/黑白   |    | 彩色                                                                                                                                                 |                 |
| 图像     | 设备      |    | 1/3" Super-HAD PS CCD                                                                                                                              |                 |
|        | 像素      | 总计 | 811 x 508                                                                                                                                          | 795 x 596       |
|        |         | 有效 | 768 x 494                                                                                                                                          | 752 x 582       |
| 扫描     | 系统      |    | 逐行                                                                                                                                                 |                 |
|        | 水平频率    |    | 15,734 Hz                                                                                                                                          | 15,625 Hz       |
|        | 垂直频率    |    | 59.94 Hz                                                                                                                                           | 50 Hz           |
| 最小景物亮度 | 彩色      |    | 低照度关闭: 0.12 勒克司(15 IRE)、0.2 勒克司(30 IRE)、0.4 勒克司(50 IRE)@F1.2<br>低照度补偿 x512: 0.00023 勒克司(15 IRE)、0.00047 勒克司(30 IRE)、0.0008 勒克司(50 IRE)@F1.2        |                 |
|        | 黑白      |    | 低照度关闭: 0.012 勒克司(15 IRE)、0.024 勒克司(30 IRE)、0.04 勒克司(50 IRE)@F1.2<br>低照度补偿 x512: 0.000023 勒克司(15 IRE)、0.000047 勒克司(30 IRE)、0.00008 勒克司(50 IRE)@F1.2 |                 |
| 功能     | 加密区域数   |    | 12 个                                                                                                                                               |                 |
|        | 白天/夜晚   |    | 白天/夜晚/自动(软方法)                                                                                                                                      |                 |
|        | 暗区补偿    |    | 关/开(级别设置)                                                                                                                                          |                 |
|        | 宽动态     |    | 关/开(128)                                                                                                                                           | 关/开(160)        |
|        | 数字变焦    |    | x1 ~ x16(x0.1 步幅)                                                                                                                                  |                 |
|        | 画中画     |    | 关/开(高级)                                                                                                                                            |                 |
|        | 高速快门    |    | 1/60 ~ 1/10Ksec                                                                                                                                    | 1/50 ~ 1/10Ksec |
|        | 防闪烁     |    | 关/开                                                                                                                                                |                 |
|        | 低照度补偿   |    | x2 ~ x512                                                                                                                                          |                 |
|        | 背光补偿    |    | 关/开(区域设置)                                                                                                                                          |                 |
|        | 自动增益    |    | 关/开(最大级别设置)                                                                                                                                        |                 |
|        | 摄像机识别号  |    | 关/开(最大 54ea/2Line)                                                                                                                                 |                 |
|        | 白平衡     |    | 自动跟踪 1/自动跟踪 2/自动控制白平衡/手动                                                                                                                           |                 |
|        | 数字降噪    |    | 关/开(自适应 3D+2D)                                                                                                                                     |                 |
|        | 数字图像稳定器 |    | 关/开                                                                                                                                                |                 |
|        | 其他功能    |    | 清晰度, 翻转 (H/V), 正片/底片                                                                                                                               |                 |

| 项目     |          |      | 说明                                                               |                     |
|--------|----------|------|------------------------------------------------------------------|---------------------|
|        |          |      | NTSC                                                             | PAL                 |
| 分辨率    | 水平       |      | 600 TV 行                                                         |                     |
|        | 垂直       |      | 350 TV 行                                                         |                     |
| 视频输出   | 视频输出     |      | VBS 1.0Vp-p                                                      |                     |
| S/N 比率 | S/N 比率   |      | 大约 52 dB                                                         |                     |
| 镜头     | 镜头驱动类型   |      | AI(直流驱动)                                                         |                     |
|        | 安装类型     |      | 块类型                                                              |                     |
| 网络板    | 操作系统     |      | 嵌入式 Linux                                                        |                     |
|        | 硬件       | 闪存   | 32M byte                                                         |                     |
|        |          | RAM  | 256M byte                                                        |                     |
|        |          | DSP  | TI Davinci                                                       |                     |
|        |          | 以太网  | RJ-45 (10/100BASE-T)                                             |                     |
|        |          | PoE  | 是 (IEEE802.3af)                                                  |                     |
| 报警     | 输入       |      | 2 个                                                              |                     |
|        | 输出       |      | 2 个                                                              |                     |
| 视频     | 压缩       |      | H.264 / MPEG4 / MJPEG 多编解码器<br>(H.264 / MPEG4 可选)<br>同时双流        |                     |
|        | 分辨率      | 4CIF | 704x480                                                          | 704x576             |
|        |          | VGA  | 640x480                                                          |                     |
|        |          | CIF  | 352x240                                                          | 352x288             |
|        | 帧率       |      | 30, 15, 8, 3, 1 fps                                              | 25, 13, 6, 3, 1 fps |
|        | 质量       |      | 1 ~ 10 级                                                         |                     |
| OSD    | 摄像机控制和调整 |      | 视频上的 OSD 菜单<br>(菜单输入/退出, 由 Web UI 移动)<br>* CGI API 将支持某些主要的调整菜单。 |                     |
| 移动探测   | 灵敏度和区域设置 |      | 高、中、低                                                            |                     |

# 附录

| 项目             |            |      | 说明                                                                                                                                                |     |
|----------------|------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                |            |      | NTSC                                                                                                                                              | PAL |
| 协议             | IP         |      | IPv4 / IPv6                                                                                                                                       |     |
|                | 网络协议       | IPv4 | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP<br>PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, VSIP |     |
|                |            | IPv6 | TCP/IP, HTTP, HTTPS, SSL, DHCP                                                                                                                    |     |
|                | 流          |      | 单播 (TCP, UDP)、多播 (UDP)                                                                                                                            |     |
|                | 安全性        |      | HTTPS 登录认证<br>分类登录验证                                                                                                                              |     |
|                | DDNS       |      | 支持 Samsung DDNS 和公共 DDNS 服务                                                                                                                       |     |
|                | ONVIF 一致是  |      | 是                                                                                                                                                 |     |
| 连接             | 最大用户访问量    |      | 在单播 (TCP, UDP) 模式最多 10 个用户<br>在多播 (UDP) 模式最多 20 个用户                                                                                               |     |
|                | 用户访问级别     | 管理员  | 现场监视、警报 I/O 控制、OSD 菜单控制、设置                                                                                                                        |     |
|                |            | 操作员  | 现场监视、警报 I/O 控制                                                                                                                                    |     |
|                |            | 用户   | 现场监视                                                                                                                                              |     |
| 事件管理           | 警报输入       |      | JPEG 图像传输 : FTP、SMTP、SD 卡                                                                                                                         |     |
|                | 移动探测       |      | 通知 : 通知查看器或通过电子邮件 (一个图像附件)<br>警报输出                                                                                                                |     |
|                | 计划         |      | JPEG 图像传输 : FTP、SMTP、SD 卡                                                                                                                         |     |
| Web 浏览器查看器(默认) | 支援的操作系统    |      | Windows XP, Windows VISTA, Windows 7                                                                                                              |     |
|                | 支持的浏览器     |      | Internet Explorer 6.0 或更高版本                                                                                                                       |     |
|                | 界面语言       |      | 英语/法语/德语/西班牙语/意大利语/中文/韩语                                                                                                                          |     |
|                | 软件升级       |      | 支持                                                                                                                                                |     |
| 视频播放器          | RTP/RTSP 流 |      | Quicktime、VLC 播放器                                                                                                                                 |     |
| 视频管理软件         |            |      | Samsung iPOLiS<br>第三方软件应用程序                                                                                                                       |     |

| 项目         |              |        | 说明                                                                      |     |
|------------|--------------|--------|-------------------------------------------------------------------------|-----|
|            |              |        | NTSC                                                                    | PAL |
| 应用程序       | IP 安装        |        | 适用于所有 Samsung IP 设备的 IP Installer 应用程序                                  |     |
| SDK        | HTTP API     | CGI 命令 | 提供控制摄像机及设置/检索内部参数值的功能。<br>获取 JPEG 图像或 MJPEG 流<br>信号输入/输出控制              |     |
|            | RTP/RTSP API |        | RTP 报头、RTSP 命令文档                                                        |     |
|            | ActiveX      | SDK    | ActiveX API 用于查看来自 IP 摄像机的数据流。                                          |     |
| 电源         |              |        | 24 伏交流电 $\pm 10\%$ (60Hz $\pm 0.3$ Hz)/ 12 伏直流电<br>+10%/-5% /PoE(以太网供电) |     |
| 耗电量        |              |        | 最大 6 瓦(12 伏直流电)、最大 7 瓦(24 伏交流电)、<br>最大 8 瓦(PoE)、                        |     |
| 工作温度       |              |        | -10° C ~ 50° C                                                          |     |
| 工作湿度       |              |        | ~90%                                                                    |     |
| 尺寸 (Ø x H) |              |        | 159.9(Ø) x 125(H)mm                                                     |     |
| 重量         |              |        | 关于 650 克                                                                |     |

# 附录

## 帧率 (NTSC)



■ 测试条件: MJPEG - 解像度(CIF), 质量(1), 帧率(1)

H.264 - 比特率控制(CBR), 压缩(40), 编码优先级(帧率),  
GOP 大小(15), 解块(开), 概图(基线), 熵编码(CAVLC),  
预计动作(HPel)

MPEG4 - 比特率控制(CBR), 压缩(40), 编码优先级(帧率),  
消除交错信号(开), GOP 大小(15)

### ❖ MPEG4 (4CIF)

| 质量 \ 帧率 | 30 FPS              | 15 FPS              | 8 FPS              | 3 FPS             | 1 FPS             |
|---------|---------------------|---------------------|--------------------|-------------------|-------------------|
| 数值10    | 4239 Kbps<br>23 FPS | 2765 Kbps<br>15 FPS | 1290 Kbps<br>7 FPS | 737 Kbps<br>4 FPS | 221 Kbps<br>1 FPS |
| 数值9     | 3686 Kbps<br>24 FPS | 2304 Kbps<br>15 FPS | 1075 Kbps<br>7 FPS | 614 Kbps<br>4 FPS | 184 Kbps<br>1 FPS |
| 数值8     | 3072 Kbps<br>25 FPS | 1843 Kbps<br>15 FPS | 860 Kbps<br>7 FPS  | 492 Kbps<br>4 FPS | 147 Kbps<br>1 FPS |
| 数值7     | 2396 Kbps<br>26 FPS | 1382 Kbps<br>15 FPS | 645 Kbps<br>7 FPS  | 369 Kbps<br>4 FPS | 111 Kbps<br>1 FPS |
| 数值6     | 1659 Kbps<br>27 FPS | 922 Kbps<br>15 FPS  | 430 Kbps<br>7 FPS  | 246 Kbps<br>4 FPS | 74 Kbps<br>1 FPS  |
| 数值5     | 1336 Kbps<br>29 FPS | 691 Kbps<br>15 FPS  | 323 Kbps<br>7 FPS  | 184 Kbps<br>4 FPS | 55 Kbps<br>1 FPS  |
| 数值4     | 1133 Kbps<br>30 FPS | 576 Kbps<br>15 FPS  | 269 Kbps<br>7 FPS  | 154 Kbps<br>4 FPS | 46 Kbps<br>1 FPS  |
| 数值3     | 922 Kbps<br>30 FPS  | 461 Kbps<br>15 FPS  | 215 Kbps<br>7 FPS  | 123 Kbps<br>4 FPS | 37 Kbps<br>1 FPS  |
| 数值2     | 691 Kbps<br>30 FPS  | 346 Kbps<br>15 FPS  | 161 Kbps<br>7 FPS  | 92 Kbps<br>4 FPS  | 28 Kbps<br>1 FPS  |
| 数值1     | 461 Kbps<br>30 FPS  | 230 Kbps<br>15 FPS  | 108 Kbps<br>7 FPS  | 61 Kbps<br>4 FPS  | 18 Kbps<br>1 FPS  |

## ❖ H.264 (4CIF)

| 质量 \ 帧率 | 30 FPS              | 15 FPS              | 8 FPS             | 3 FPS             | 1 FPS             |
|---------|---------------------|---------------------|-------------------|-------------------|-------------------|
| 数值10    | 2298 Kbps<br>19 FPS | 1229 Kbps<br>10 FPS | 737 Kbps<br>6 FPS | 369 Kbps<br>3 FPS | 147 Kbps<br>1 FPS |
| 数值9     | 1751 Kbps<br>19 FPS | 1198 Kbps<br>13 FPS | 645 Kbps<br>7 FPS | 369 Kbps<br>4 FPS | 111 Kbps<br>1 FPS |
| 数值8     | 1536 Kbps<br>20 FPS | 1075 Kbps<br>14 FPS | 538 Kbps<br>7 FPS | 307 Kbps<br>4 FPS | 92 Kbps<br>1 FPS  |
| 数值7     | 1352 Kbps<br>22 FPS | 897 Kbps<br>15 FPS  | 430 Kbps<br>7 FPS | 246 Kbps<br>4 FPS | 74 Kbps<br>1 FPS  |
| 数值6     | 1129 Kbps<br>25 FPS | 691 Kbps<br>15 FPS  | 369 Kbps<br>8 FPS | 184 Kbps<br>4 FPS | 55 Kbps<br>1 FPS  |
| 数值5     | 960 Kbps<br>25 FPS  | 576 Kbps<br>15 FPS  | 307 Kbps<br>8 FPS | 154 Kbps<br>4 FPS | 46 Kbps<br>1 FPS  |
| 数值4     | 799 Kbps<br>26 FPS  | 461 Kbps<br>15 FPS  | 246 Kbps<br>8 FPS | 123 Kbps<br>4 FPS | 37 Kbps<br>1 FPS  |
| 数值3     | 622 Kbps<br>27 FPS  | 346 Kbps<br>15 FPS  | 184 Kbps<br>8 FPS | 92 Kbps<br>4 FPS  | 28 Kbps<br>1 FPS  |
| 数值2     | 445 Kbps<br>29 FPS  | 230 Kbps<br>15 FPS  | 123 Kbps<br>8 FPS | 61 Kbps<br>4 FPS  | 18 Kbps<br>1 FPS  |
| 数值1     | 223 Kbps<br>29 FPS  | 115 Kbps<br>15 FPS  | 61 Kbps<br>8 FPS  | 31 Kbps<br>4 FPS  | 9 Kbps<br>1 FPS   |

# 附录

## ❖ MPEG4 (VGA)

| 质量 \ 帧率 | 30 FPS              | 15 FPS              | 8 FPS              | 3 FPS             | 1 FPS             |
|---------|---------------------|---------------------|--------------------|-------------------|-------------------|
| 数值10    | 4055 Kbps<br>22 FPS | 2580 Kbps<br>14 FPS | 1290 Kbps<br>7 FPS | 737 Kbps<br>4 FPS | 221 Kbps<br>1 FPS |
| 数值9     | 3533 Kbps<br>23 FPS | 2304 Kbps<br>15 FPS | 1075 Kbps<br>7 FPS | 614 Kbps<br>4 FPS | 184 Kbps<br>1 FPS |
| 数值8     | 2949 Kbps<br>24 FPS | 1843 Kbps<br>15 FPS | 860 Kbps<br>7 FPS  | 492 Kbps<br>4 FPS | 147 Kbps<br>1 FPS |
| 数值7     | 2304 Kbps<br>25 FPS | 1382 Kbps<br>15 FPS | 645 Kbps<br>7 FPS  | 369 Kbps<br>4 FPS | 111 Kbps<br>1 FPS |
| 数值6     | 1536 Kbps<br>25 FPS | 922 Kbps<br>15 FPS  | 430 Kbps<br>7 FPS  | 246 Kbps<br>4 FPS | 74 Kbps<br>1 FPS  |
| 数值5     | 1152 Kbps<br>25 FPS | 691 Kbps<br>15 FPS  | 323 Kbps<br>7 FPS  | 184 Kbps<br>4 FPS | 55 Kbps<br>1 FPS  |
| 数值4     | 998 Kbps<br>26 FPS  | 576 Kbps<br>15 FPS  | 269 Kbps<br>7 FPS  | 154 Kbps<br>4 FPS | 46 Kbps<br>1 FPS  |
| 数值3     | 799 Kbps<br>26 FPS  | 461 Kbps<br>15 FPS  | 246 Kbps<br>8 FPS  | 123 Kbps<br>4 FPS | 37 Kbps<br>1 FPS  |
| 数值2     | 622 Kbps<br>27 FPS  | 346 Kbps<br>15 FPS  | 184 Kbps<br>8 FPS  | 92 Kbps<br>4 FPS  | 28 Kbps<br>1 FPS  |
| 数值1     | 415 Kbps<br>27 FPS  | 230 Kbps<br>15 FPS  | 123 Kbps<br>8 FPS  | 61 Kbps<br>4 FPS  | 18 Kbps<br>1 FPS  |

## ❖ H.264 (VGA)

| 质量 \ 帧率 | 30 FPS              | 15 FPS              | 8 FPS             | 3 FPS             | 1 FPS             |
|---------|---------------------|---------------------|-------------------|-------------------|-------------------|
| 数值10    | 2089 Kbps<br>17 FPS | 1229 Kbps<br>10 FPS | 737 Kbps<br>6 FPS | 369 Kbps<br>3 FPS | 147 Kbps<br>1 FPS |
| 数值9     | 1659 Kbps<br>18 FPS | 1014 Kbps<br>11 FPS | 553 Kbps<br>6 FPS | 276 Kbps<br>3 FPS | 111 Kbps<br>1 FPS |
| 数值8     | 1459 Kbps<br>19 FPS | 845 Kbps<br>11 FPS  | 538 Kbps<br>7 FPS | 307 Kbps<br>4 FPS | 92 Kbps<br>1 FPS  |
| 数值7     | 1229 Kbps<br>20 FPS | 737 Kbps<br>12 FPS  | 430 Kbps<br>7 FPS | 246 Kbps<br>4 FPS | 74 Kbps<br>1 FPS  |
| 数值6     | 1014 Kbps<br>22 FPS | 691 Kbps<br>15 FPS  | 323 Kbps<br>7 FPS | 184 Kbps<br>4 FPS | 55 Kbps<br>1 FPS  |
| 数值5     | 883 Kbps<br>23 FPS  | 576 Kbps<br>15 FPS  | 269 Kbps<br>7 FPS | 154 Kbps<br>4 FPS | 46 Kbps<br>1 FPS  |
| 数值4     | 707 Kbps<br>23 FPS  | 461 Kbps<br>15 FPS  | 215 Kbps<br>7 FPS | 123 Kbps<br>4 FPS | 37 Kbps<br>1 FPS  |
| 数值3     | 553 Kbps<br>24 FPS  | 346 Kbps<br>15 FPS  | 161 Kbps<br>7 FPS | 92 Kbps<br>4 FPS  | 28 Kbps<br>1 FPS  |
| 数值2     | 384 Kbps<br>25 FPS  | 230 Kbps<br>15 FPS  | 108 Kbps<br>7 FPS | 61 Kbps<br>4 FPS  | 18 Kbps<br>1 FPS  |
| 数值1     | 200 Kbps<br>26 FPS  | 115 Kbps<br>15 FPS  | 54 Kbps<br>7 FPS  | 31 Kbps<br>4 FPS  | 9 Kbps<br>1 FPS   |

# 附录

## ❖ MPEG4 (CIF)

| 质量 \ 帧率 | 30 FPS              | 15 FPS             | 8 FPS             | 3 FPS             | 1 FPS            |
|---------|---------------------|--------------------|-------------------|-------------------|------------------|
| 数值10    | 1382 Kbps<br>30 FPS | 691 Kbps<br>15 FPS | 369 Kbps<br>8 FPS | 184 Kbps<br>4 FPS | 55 Kbps<br>1 FPS |
| 数值9     | 1152 Kbps<br>30 FPS | 576 Kbps<br>15 FPS | 307 Kbps<br>8 FPS | 154 Kbps<br>4 FPS | 46 Kbps<br>1 FPS |
| 数值8     | 922 Kbps<br>30 FPS  | 461 Kbps<br>15 FPS | 246 Kbps<br>8 FPS | 123 Kbps<br>4 FPS | 37 Kbps<br>1 FPS |
| 数值7     | 691 Kbps<br>30 FPS  | 346 Kbps<br>15 FPS | 184 Kbps<br>8 FPS | 92 Kbps<br>4 FPS  | 28 Kbps<br>1 FPS |
| 数值6     | 461 Kbps<br>30 FPS  | 230 Kbps<br>15 FPS | 123 Kbps<br>8 FPS | 61 Kbps<br>4 FPS  | 18 Kbps<br>1 FPS |
| 数值5     | 346 Kbps<br>30 FPS  | 173 Kbps<br>15 FPS | 92 Kbps<br>8 FPS  | 46 Kbps<br>4 FPS  | 14 Kbps<br>1 FPS |
| 数值4     | 288 Kbps<br>30 FPS  | 144 Kbps<br>15 FPS | 77 Kbps<br>8 FPS  | 38 Kbps<br>4 FPS  | 12 Kbps<br>1 FPS |
| 数值3     | 230 Kbps<br>30 FPS  | 115 Kbps<br>15 FPS | 61 Kbps<br>8 FPS  | 31 Kbps<br>4 FPS  | 9 Kbps<br>1 FPS  |
| 数值2     | 173 Kbps<br>30 FPS  | 86 Kbps<br>15 FPS  | 46 Kbps<br>8 FPS  | 23 Kbps<br>4 FPS  | 7 Kbps<br>1 FPS  |
| 数值1     | 151 Kbps<br>30 FPS  | 76 Kbps<br>15 FPS  | 40 Kbps<br>8 FPS  | 20 Kbps<br>4 FPS  | 6 Kbps<br>1 FPS  |

## ❖ H.264 (CIF)

| 质量 \ 帧率 | 30 FPS             | 15 FPS             | 8 FPS             | 3 FPS             | 1 FPS            |
|---------|--------------------|--------------------|-------------------|-------------------|------------------|
| 数值10    | 922 Kbps<br>30 FPS | 461 Kbps<br>15 FPS | 215 Kbps<br>7 FPS | 123 Kbps<br>4 FPS | 37 Kbps<br>1 FPS |
| 数值9     | 691 Kbps<br>30 FPS | 346 Kbps<br>15 FPS | 184 Kbps<br>8 FPS | 92 Kbps<br>4 FPS  | 28 Kbps<br>1 FPS |
| 数值8     | 576 Kbps<br>30 FPS | 288 Kbps<br>15 FPS | 134 Kbps<br>7 FPS | 77 Kbps<br>4 FPS  | 23 Kbps<br>1 FPS |
| 数值7     | 461 Kbps<br>30 FPS | 230 Kbps<br>15 FPS | 108 Kbps<br>7 FPS | 61 Kbps<br>4 FPS  | 18 Kbps<br>1 FPS |
| 数值6     | 346 Kbps<br>30 FPS | 173 Kbps<br>15 FPS | 81 Kbps<br>7 FPS  | 46 Kbps<br>4 FPS  | 14 Kbps<br>1 FPS |
| 数值5     | 288 Kbps<br>30 FPS | 144 Kbps<br>15 FPS | 67 Kbps<br>7 FPS  | 38 Kbps<br>4 FPS  | 12 Kbps<br>1 FPS |
| 数值4     | 230 Kbps<br>30 FPS | 115 Kbps<br>15 FPS | 54 Kbps<br>7 FPS  | 31 Kbps<br>4 FPS  | 9 Kbps<br>1 FPS  |
| 数值3     | 173 Kbps<br>30 FPS | 86 Kbps<br>15 FPS  | 40 Kbps<br>7 FPS  | 23 Kbps<br>4 FPS  | 7 Kbps<br>1 FPS  |
| 数值2     | 115 Kbps<br>30 FPS | 58 Kbps<br>15 FPS  | 27 Kbps<br>7 FPS  | 15 Kbps<br>4 FPS  | 5 Kbps<br>1 FPS  |
| 数值1     | 58 Kbps<br>30 FPS  | 29 Kbps<br>15 FPS  | 13 Kbps<br>7 FPS  | 8 Kbps<br>4 FPS   | 2 Kbps<br>1 FPS  |

# 附录

## 帧率 (PAL)



■ 测试条件: MJPEG - 解像度(CIF), 质量(1), 帧率(1)

H.264 - 比特率控制(CBR), 压缩(40), 编码优先级(帧率),  
GOP 大小(15), 解块(开), 概图(基线), 熵编码(CAVLC),  
预计动作(HPel)

MPEG4 - 比特率控制(CBR), 压缩(40), 编码优先级(帧率),  
消除交错信号(开), GOP 大小(15)

### ❖ MPEG4 (4CIF)

| 质量 \ 帧率 | 25 FPS              | 13 FPS              | 6 FPS              | 3 FPS             | 1 FPS             |
|---------|---------------------|---------------------|--------------------|-------------------|-------------------|
| 数值10    | 4645 Kbps<br>21 FPS | 2654 Kbps<br>12 FPS | 1327 Kbps<br>6 FPS | 664 Kbps<br>3 FPS | 221 Kbps<br>1 FPS |
| 数值9     | 4055 Kbps<br>22 FPS | 2212 Kbps<br>12 FPS | 1106 Kbps<br>6 FPS | 553 Kbps<br>3 FPS | 184 Kbps<br>1 FPS |
| 数值8     | 3391 Kbps<br>23 FPS | 1769 Kbps<br>12 FPS | 885 Kbps<br>6 FPS  | 442 Kbps<br>3 FPS | 147 Kbps<br>1 FPS |
| 数值7     | 2544 Kbps<br>23 FPS | 1327 Kbps<br>12 FPS | 664 Kbps<br>6 FPS  | 332 Kbps<br>3 FPS | 111 Kbps<br>1 FPS |
| 数值6     | 1769 Kbps<br>24 FPS | 885 Kbps<br>12 FPS  | 442 Kbps<br>6 FPS  | 221 Kbps<br>3 FPS | 74 Kbps<br>1 FPS  |
| 数值5     | 1382 Kbps<br>25 FPS | 664 Kbps<br>12 FPS  | 332 Kbps<br>6 FPS  | 166 Kbps<br>3 FPS | 55 Kbps<br>1 FPS  |
| 数值4     | 1152 Kbps<br>25 FPS | 553 Kbps<br>12 FPS  | 276 Kbps<br>6 FPS  | 138 Kbps<br>3 FPS | 46 Kbps<br>1 FPS  |
| 数值3     | 922 Kbps<br>25 FPS  | 442 Kbps<br>12 FPS  | 221 Kbps<br>6 FPS  | 111 Kbps<br>3 FPS | 37 Kbps<br>1 FPS  |
| 数值2     | 691 Kbps<br>25 FPS  | 332 Kbps<br>12 FPS  | 166 Kbps<br>6 FPS  | 83 Kbps<br>3 FPS  | 28 Kbps<br>1 FPS  |
| 数值1     | 461 Kbps<br>25 FPS  | 221 Kbps<br>12 FPS  | 111 Kbps<br>6 FPS  | 55 Kbps<br>3 FPS  | 18 Kbps<br>1 FPS  |

## ❖ H.264 (4CIF)

| 质量 \ 帧率 | 25 FPS              | 13 FPS              | 6 FPS             | 3 FPS             | 1 FPS             |
|---------|---------------------|---------------------|-------------------|-------------------|-------------------|
| 数值10    | 2359 Kbps<br>16 FPS | 1180 Kbps<br>8 FPS  | 737 Kbps<br>5 FPS | 442 Kbps<br>3 FPS | 147 Kbps<br>1 FPS |
| 数值9     | 1991 Kbps<br>18 FPS | 1106 Kbps<br>10 FPS | 664 Kbps<br>6 FPS | 332 Kbps<br>3 FPS | 111 Kbps<br>1 FPS |
| 数值8     | 1751 Kbps<br>19 FPS | 1014 Kbps<br>11 FPS | 553 Kbps<br>6 FPS | 276 Kbps<br>3 FPS | 92 Kbps<br>1 FPS  |
| 数值7     | 1475 Kbps<br>20 FPS | 885 Kbps<br>12 FPS  | 442 Kbps<br>6 FPS | 221 Kbps<br>3 FPS | 74 Kbps<br>1 FPS  |
| 数值6     | 1161 Kbps<br>21 FPS | 664 Kbps<br>12 FPS  | 332 Kbps<br>6 FPS | 166 Kbps<br>3 FPS | 55 Kbps<br>1 FPS  |
| 数值5     | 968 Kbps<br>21 FPS  | 553 Kbps<br>12 FPS  | 276 Kbps<br>6 FPS | 138 Kbps<br>3 FPS | 46 Kbps<br>1 FPS  |
| 数值4     | 811 Kbps<br>22 FPS  | 442 Kbps<br>12 FPS  | 221 Kbps<br>6 FPS | 111 Kbps<br>3 FPS | 37 Kbps<br>1 FPS  |
| 数值3     | 608 Kbps<br>22 FPS  | 332 Kbps<br>12 FPS  | 166 Kbps<br>6 FPS | 83 Kbps<br>3 FPS  | 28 Kbps<br>1 FPS  |
| 数值2     | 424 Kbps<br>23 FPS  | 221 Kbps<br>12 FPS  | 111 Kbps<br>6 FPS | 55 Kbps<br>3 FPS  | 18 Kbps<br>1 FPS  |
| 数值1     | 230 Kbps<br>25 FPS  | 111 Kbps<br>12 FPS  | 55 Kbps<br>6 FPS  | 28 Kbps<br>3 FPS  | 9 Kbps<br>1 FPS   |

# 附录

## ❖ MPEG4 (VGA)

| 质量 \ 帧率 | 25 FPS              | 13 FPS              | 6 FPS              | 3 FPS             | 1 FPS             |
|---------|---------------------|---------------------|--------------------|-------------------|-------------------|
| 数值10    | 4424 Kbps<br>20 FPS | 2654 Kbps<br>12 FPS | 1327 Kbps<br>6 FPS | 664 Kbps<br>3 FPS | 221 Kbps<br>1 FPS |
| 数值9     | 3871 Kbps<br>21 FPS | 2212 Kbps<br>12 FPS | 1106 Kbps<br>6 FPS | 553 Kbps<br>3 FPS | 184 Kbps<br>1 FPS |
| 数值8     | 3097 Kbps<br>21 FPS | 1769 Kbps<br>12 FPS | 885 Kbps<br>6 FPS  | 442 Kbps<br>3 FPS | 147 Kbps<br>1 FPS |
| 数值7     | 2433 Kbps<br>22 FPS | 1327 Kbps<br>12 FPS | 664 Kbps<br>6 FPS  | 332 Kbps<br>3 FPS | 111 Kbps<br>1 FPS |
| 数值6     | 1769 Kbps<br>24 FPS | 885 Kbps<br>12 FPS  | 442 Kbps<br>6 FPS  | 221 Kbps<br>3 FPS | 74 Kbps<br>1 FPS  |
| 数值5     | 1382 Kbps<br>25 FPS | 664 Kbps<br>12 FPS  | 332 Kbps<br>6 FPS  | 166 Kbps<br>3 FPS | 55 Kbps<br>1 FPS  |
| 数值4     | 1152 Kbps<br>25 FPS | 553 Kbps<br>12 FPS  | 276 Kbps<br>6 FPS  | 138 Kbps<br>3 FPS | 46 Kbps<br>1 FPS  |
| 数值3     | 922 Kbps<br>25 FPS  | 442 Kbps<br>12 FPS  | 221 Kbps<br>6 FPS  | 111 Kbps<br>3 FPS | 37 Kbps<br>1 FPS  |
| 数值2     | 691 Kbps<br>25 FPS  | 332 Kbps<br>12 FPS  | 166 Kbps<br>6 FPS  | 83 Kbps<br>3 FPS  | 28 Kbps<br>1 FPS  |
| 数值1     | 461 Kbps<br>25 FPS  | 221 Kbps<br>12 FPS  | 111 Kbps<br>6 FPS  | 55 Kbps<br>3 FPS  | 18 Kbps<br>1 FPS  |

## ❖ H.264 (VGA)

| 质量 \ 帧率 | 25 FPS              | 13 FPS              | 6 FPS             | 3 FPS             | 1 FPS             |
|---------|---------------------|---------------------|-------------------|-------------------|-------------------|
| 数值10    | 2507 Kbps<br>17 FPS | 1327 Kbps<br>9 FPS  | 737 Kbps<br>5 FPS | 442 Kbps<br>3 FPS | 147 Kbps<br>1 FPS |
| 数值9     | 1991 Kbps<br>18 FPS | 1217 Kbps<br>11 FPS | 664 Kbps<br>6 FPS | 332 Kbps<br>3 FPS | 111 Kbps<br>1 FPS |
| 数值8     | 1659 Kbps<br>18 FPS | 1106 Kbps<br>12 FPS | 553 Kbps<br>6 FPS | 276 Kbps<br>3 FPS | 92 Kbps<br>1 FPS  |
| 数值7     | 1401 Kbps<br>19 FPS | 885 Kbps<br>12 FPS  | 442 Kbps<br>6 FPS | 221 Kbps<br>3 FPS | 74 Kbps<br>1 FPS  |
| 数值6     | 1106 Kbps<br>20 FPS | 664 Kbps<br>12 FPS  | 332 Kbps<br>6 FPS | 166 Kbps<br>3 FPS | 55 Kbps<br>1 FPS  |
| 数值5     | 968 Kbps<br>21 FPS  | 553 Kbps<br>12 FPS  | 276 Kbps<br>6 FPS | 138 Kbps<br>3 FPS | 46 Kbps<br>1 FPS  |
| 数值4     | 774 Kbps<br>21 FPS  | 442 Kbps<br>12 FPS  | 221 Kbps<br>6 FPS | 111 Kbps<br>3 FPS | 37 Kbps<br>1 FPS  |
| 数值3     | 608 Kbps<br>22 FPS  | 332 Kbps<br>12 FPS  | 166 Kbps<br>6 FPS | 83 Kbps<br>3 FPS  | 28 Kbps<br>1 FPS  |
| 数值2     | 424 Kbps<br>23 FPS  | 221 Kbps<br>12 FPS  | 111 Kbps<br>6 FPS | 55 Kbps<br>3 FPS  | 18 Kbps<br>1 FPS  |
| 数值1     | 230 Kbps<br>25 FPS  | 111 Kbps<br>12 FPS  | 55 Kbps<br>6 FPS  | 28 Kbps<br>3 FPS  | 9 Kbps<br>1 FPS   |

# 附录

## ❖ MPEG4 (CIF)

| 质量 \ 帧率 | 25 FPS              | 13 FPS             | 6 FPS             | 3 FPS             | 1 FPS            |
|---------|---------------------|--------------------|-------------------|-------------------|------------------|
| 数值10    | 1382 Kbps<br>25 FPS | 664 Kbps<br>12 FPS | 332 Kbps<br>6 FPS | 166 Kbps<br>3 FPS | 55 Kbps<br>1 FPS |
| 数值9     | 1152 Kbps<br>25 FPS | 553 Kbps<br>12 FPS | 276 Kbps<br>6 FPS | 138 Kbps<br>3 FPS | 46 Kbps<br>1 FPS |
| 数值8     | 922 Kbps<br>25 FPS  | 442 Kbps<br>12 FPS | 221 Kbps<br>6 FPS | 111 Kbps<br>3 FPS | 37 Kbps<br>1 FPS |
| 数值7     | 691 Kbps<br>25 FPS  | 332 Kbps<br>12 FPS | 166 Kbps<br>6 FPS | 83 Kbps<br>3 FPS  | 28 Kbps<br>1 FPS |
| 数值6     | 461 Kbps<br>25 FPS  | 221 Kbps<br>12 FPS | 111 Kbps<br>6 FPS | 55 Kbps<br>3 FPS  | 18 Kbps<br>1 FPS |
| 数值5     | 346 Kbps<br>25 FPS  | 166 Kbps<br>12 FPS | 83 Kbps<br>6 FPS  | 41 Kbps<br>3 FPS  | 14 Kbps<br>1 FPS |
| 数值4     | 288 Kbps<br>25 FPS  | 138 Kbps<br>12 FPS | 69 Kbps<br>6 FPS  | 35 Kbps<br>3 FPS  | 12 Kbps<br>1 FPS |
| 数值3     | 230 Kbps<br>25 FPS  | 111 Kbps<br>12 FPS | 55 Kbps<br>6 FPS  | 28 Kbps<br>3 FPS  | 9 Kbps<br>1 FPS  |
| 数值2     | 173 Kbps<br>25 FPS  | 83 Kbps<br>12 FPS  | 41 Kbps<br>6 FPS  | 21 Kbps<br>3 FPS  | 7 Kbps<br>1 FPS  |
| 数值1     | 151 Kbps<br>25 FPS  | 73 Kbps<br>12 FPS  | 36 Kbps<br>6 FPS  | 18 Kbps<br>3 FPS  | 6 Kbps<br>1 FPS  |

## ❖ H.264 (CIF)

| 质量 \ 帧率 | 25 FPS             | 13 FPS             | 6 FPS             | 3 FPS             | 1 FPS            |
|---------|--------------------|--------------------|-------------------|-------------------|------------------|
| 数值10    | 922 Kbps<br>25 FPS | 442 Kbps<br>12 FPS | 221 Kbps<br>6 FPS | 111 Kbps<br>3 FPS | 37 Kbps<br>1 FPS |
| 数值9     | 691 Kbps<br>25 FPS | 332 Kbps<br>12 FPS | 166 Kbps<br>6 FPS | 83 Kbps<br>3 FPS  | 28 Kbps<br>1 FPS |
| 数值8     | 576 Kbps<br>25 FPS | 276 Kbps<br>12 FPS | 138 Kbps<br>6 FPS | 69 Kbps<br>3 FPS  | 23 Kbps<br>1 FPS |
| 数值7     | 461 Kbps<br>25 FPS | 221 Kbps<br>12 FPS | 111 Kbps<br>6 FPS | 55 Kbps<br>3 FPS  | 18 Kbps<br>1 FPS |
| 数值6     | 346 Kbps<br>25 FPS | 166 Kbps<br>12 FPS | 83 Kbps<br>6 FPS  | 41 Kbps<br>3 FPS  | 14 Kbps<br>1 FPS |
| 数值5     | 288 Kbps<br>25 FPS | 138 Kbps<br>12 FPS | 69 Kbps<br>6 FPS  | 35 Kbps<br>3 FPS  | 12 Kbps<br>1 FPS |
| 数值4     | 230 Kbps<br>25 FPS | 111 Kbps<br>12 FPS | 55 Kbps<br>6 FPS  | 28 Kbps<br>3 FPS  | 9 Kbps<br>1 FPS  |
| 数值3     | 173 Kbps<br>25 FPS | 83 Kbps<br>12 FPS  | 41 Kbps<br>6 FPS  | 21 Kbps<br>3 FPS  | 7 Kbps<br>1 FPS  |
| 数值2     | 115 Kbps<br>25 FPS | 55 Kbps<br>12 FPS  | 28 Kbps<br>6 FPS  | 14 Kbps<br>3 FPS  | 5 Kbps<br>1 FPS  |
| 数值1     | 58 Kbps<br>25 FPS  | 28 Kbps<br>12 FPS  | 14 Kbps<br>6 FPS  | 7 Kbps<br>3 FPS   | 2 Kbps<br>1 FPS  |

# 附录

## 故障排除

| 故障                       | 解决方法                                                                                                                                                                                                                     |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 无法使用网络浏览器访问摄像头。          | <ul style="list-style-type: none"><li>• 检查摄像头的网络设置 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,检查摄像头是否能够 无故障地获得动态 IP 地址。</li><li>• 若使用 DDNS URL,确认 MAC 地址输入是否正确。</li><li>• 若摄像头与路由器连接,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头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>• 若摄像头通过 xDSL 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>                                                                       |
| 无法使用 IE 7.0 的选项卡浏览器连接系统。 | <ul style="list-style-type: none"><li>• 在尝试使用选项卡浏览器连接系统时,使用的 cookie 信息相同,这导致了连接时出错。因此,打开新的浏览器窗口,而非使用选项卡浏览器来连接系统。</li></ul>                                                                                               |
| IP 安装程序未检测到连接至网络的摄像头。    | <ul style="list-style-type: none"><li>• 关闭 PC 上的防火墙设置,再次搜索摄像头。</li></ul>                                                                                                                                                 |
| 图像重叠。                    | <ul style="list-style-type: none"><li>• 检查是否将多个摄像头应当设置的不同地址设为了同一多播地址。多个摄像头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,请检查摄像头所连接的 LAN 中是否有路由器支持多播。</li></ul>                                                                                                                                |

| 故障                                                              | 解决方法                                                                                                                                                                                                                         |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 即使将 <智能视频分析功能> 设置为 <启用>, 如果发生摄像机的智能视频分析事件, 也不会通过电子邮件传输 JPEG 文件。 | <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;智能视频分析功能&gt; 应设置为 &lt;启用&gt;。</li> <li>C. 警报视频传输必须已启用。</li> </ul> </li> </ul> |
| 即使 <智能视频分析功能> 已设置为 <禁用>, 是否可以配置 <设置规则>?                         | <ul style="list-style-type: none"> <li>是, 可以。无论智能视频分析设置如何, 您均可设置事件规则。</li> </ul>                                                                                                                                             |
| 即使在产生智能视频分析事件时, 在报警输出端口也找不到信号。                                  | <ul style="list-style-type: none"> <li>检查警报输出端口设置。</li> </ul>                                                                                                                                                                |
| 无法录制到 SD 内存卡。                                                   | <ul style="list-style-type: none"> <li>检查内存卡是否有缺陷。</li> <li>检查内存卡的写保护标签是否设置为 “LOCK”。</li> </ul>                                                                                                                              |
| 在插入 SD 内存后, SD 内存指示灯不亮。                                         | <ul style="list-style-type: none"> <li>检查内存卡是否有缺陷。</li> <li>检查在 &lt;设置&gt; → &lt;事件&gt; → &lt;SD 录制&gt; 菜单中, 是否选中了 &lt;录制&gt;。</li> </ul>                                                                                    |
| 插入了 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;SD 录制&gt; 菜单中, 再次格式化内存卡。</li> </ul>                                                              |
| 无法格式化 SD 内存卡。                                                   | <ul style="list-style-type: none"> <li>检查内存卡的写保护标签是否设置为 “LOCK”。</li> </ul>                                                                                                                                                   |

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