

SAMSUNG

iPOLiS mobile

中文

iOS ver 2.8

Hanwha Techwin 的 iPOLiS mobile 是智能手机和平板电脑专用的、基于 iOS 的应用程序，它可以远程监视和控制 Hanwha Techwin 生产的基于网络的产品。

iPOLiS 应用程序可从 App Store 免费下载并安装。

❖ 要从 App Store 中搜索 iPOLiS mobile 应用程序，请输入“iPOLiS”或“TECHWIN”并运行不区分字母大小写的搜索。

0. 在安装之前

若要通过将手机连接到 NW 设备来接收视频，手机必须满足下列要求。

项目	建议
CPU	1.3GHz 双核或更高
RAM	1GB 或更高
可用 RAM	100MB 或更高
OS	iOS 8、iOS 9



- 视频服务涉及很多数据传输，因此如果您使用 3G 或 4G (LTE) 数据通信服务，根据您的服务提供商的政策可能会收取额外的费用。
- 为了接收可靠的视频支持，网速应达到 10Mbps，并且当您访问 3G 网络或处于不稳定的 Wi-Fi 连接环境下时，视频可能会延迟或断开连接。
- 由于 Wi-Fi 连接可能不安全，请先在您的移动设备上安装防病毒软件。软件质量的设备测试环境如下所示：
 - Apple iPhone 5 (iOS v8.4.1) 型号
 - Apple iPhone 6 (iOS v9.3.2) 型号
 - Apple iPhone 6S (iOS v9.3.4) 型号
 - Apple iPhone6S (iOS v10.0) 型号
 - Apple iPad2 (iOS v8.3) 型号
 - Apple iPad Air (iOS v9.3.2) 型号
 - Apple iPad Mini4 (iOS v9.3.2) 型号

1. 注册和搜索设备

添加设备

1. 移至 Add Device 页面。

- ① 如果是首次访问并且没有添加任何设备，<Add Device> 消息将会出现。
- ② 如果注册设备后想添加另一个设备，请转到“设置”选项卡，轻触 <Device List> 菜单并触摸右上角的 <+> 按钮，以启动“添加设备”页面。



2. 在 <Add Device> 屏幕中，触摸 <自动添加> 按钮以启动可用设备的列表。触摸所需的设备。



- 当您的智能手机连接至设备所连接的 Wi-Fi 网络时，iPOLiS 将自动检测该设备。
- 如果使用 3G 网络，则可能不会搜索设备列表。

< Add Device Search ↻	
Model	IP/DDNS
SNB-8000	192.168.0.78
SNP-5321	192.168.0.59
SRN-1670D	192.168.0.226

3. 输入要连接的设备信息。

如果未找到设备，需要自行输入设备信息。

- Name：根据需要命名设备。
 - 如果没有输入名称，则默认情况下将使用要添加的设备的 IP 地址或 DDNS。
- Model：从列出的产品类型中选择其中一种类型。
 - 实际型号名称不是必需的，会在添加设备之后自动分配。
- Address Type：输入要连接的设备 IP 地址或 DDNS（取决于 Internet 环境）。
 - 如果选择 IP 作为地址类型，则输入 IP 地址；如果选择 DDNS，则输入 DDNS。
- HTTP Port：输入设备的连接端口。
- RTSP Port：输入为设备配置的 RTSP 端口号。
 - 请输入为设备配置的端口范围的最后一个端口号。例如，如果范围是 4520~4524，请输入 4524。
- ID：输入所指定设备的 ID。
- Password：输入所指定设备的密码。

取消 Add Device 保存

自动添加 Tip

Name 输入设备名称.

Model N/W CAMERA, ENCODER SNB-8000 >

Address Type IP DDNS

IP 192.168.0.78

HTTP Port 80

RTSP Port 输入 RTSP 端口号.

为了让实时监视取得最佳效果，建议您按照帮助文档中时建议配置视频配置文件。

ID 输入用户 ID.

Password 输入密码.



- 如果使用 **<自动添加>** 注册设备, 则会自动输入型号/地址类型/IP 以及 DDNS/HTTP 端口。
- SW NVR 不支持自动搜索功能。
- 某些 DVR 型号不支持基于 DDNS 的自动搜索。
- 如想要在 3G/LTE 网络条件下使用该设备, 您需要注册 DDNS ID 或将其设置为公共网络。
- 您可在 ddns.hanwha-security.com 注册 DDNS ID。

4. 提供所有必需信息并触摸 **<保存>** 按钮。

5. 选择配置文件。

- 如果要添加的设备是网络摄像机或编码器, 则用户必须选择用于视频录制的配置文件。配置文件的属性可使用 Web Viewer 进行查看和编辑, 其中 iPOLiS mobile 仅提供从现有配置文件中选择最适合显示设备的配置文件的选项。

6. 选择频道。

- 如果要添加 DVR/NVR, 则用户必须选择频道以进行连接。可以通过 Web 查看器查看和编辑通道的属性, 但 iPOLiS 移动只提供为显示设备选择要监视的通道。

7. 成功连接至设备之后, 便会将该设备添加至设备列表。



- 如果向您的应用程序中添加设备之后在 Web 查看器上对所添加设备的设置进行了编辑, 那么 iPOLiS 移动可能无法识别更改的设置。在这种情况下, 请移至对应设备的编辑页面, 然后触摸 **<保存>** 按钮以再次检索连接。

❖ 建议的配置文件信息

建议您按照下面所示设置配置文件，以使用 iPOLiS mobile 取得最佳的实时视频监控性能。

配置

设备		设备配置文件设置菜单
网络摄像机		视频设置
DVR		现场传输
NVR	硬件	现场流式传输
	软件	现场直播视频源 2

实时模式建议使用的配置文件设置

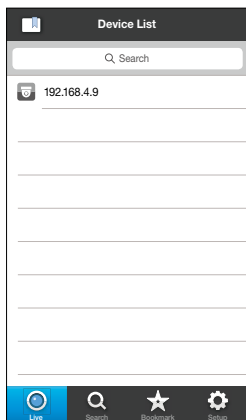
编解码器	分辨率	帧速率	压缩/传输质量
MJPEG	320X240 / CIF	5fps	标准 (10)
H.264	320X240 / CIF	10fps	标准 (10)
H.265	320X240 / CIF	10fps	标准 (10)



- 网络摄像机最高支持全高清 (1920 x 1080) 分辨率。仅受支持的存储设备兼容全高清分辨率。
- 如视频的宽度或高度像素为 2040 或更大, 则不能以 MJPEG 格式监控。
- 根据网络稳定性, 连接可能会断断续续或受到干扰。

搜索设备

如要在实时/播放标签设备列表中搜索已注册的设备，请输入设备名称。
将筛选并显示包括搜索字的设备列表。



2. 编辑、删除和导出设备列表

编辑设备信息

1. 触摸“Settings”选项卡。
2. 从 <Device List> 中选择一个设备，然后触摸右侧的 < > 。
3. 完成更改后，触摸 <保存>。

删除设备

1. 触摸“Settings”选项卡。
2. 从 <Device List> 中选择一个设备，然后触摸右侧的 < > 。
3. 从出现的编辑设备屏幕中，触摸 <删除设备>。
便会从列表中删除选择的设备。



- 在显示的设备名称上从右向左滑动可显示删除按钮。触摸该按钮可从设备列表中删除设备。

导出设备

1. 触摸“Settings”选项卡。
2. 进入“注册”菜单，触摸<Device List>。
3. 触摸设备列表右侧的导出 <  > 。
4. 在终端设备上设置有电子邮件地址的情况下
配置密码并输入收件人的电子邮件地址。



- 如要设置密码，请参阅“设置密码”（见第 28 页）。

5. 在终端设备上未设置电子邮件地址的情况下

将弹出一个弹出窗口，窗口显示内容为“未找到电子邮件地址。请注册一个电子邮件账户以发送电子邮件”。

选择要在终端设备上使用的电子邮件，并按照上述 1 至 4 步骤进行操作。



- 仅 iOS 8.0 或更高版本支持此功能。
- 导出文件包含设备访问信息。
使用文件时请注意保护其安全性。

导入设备列表

❖ 在使用操作系统附带应用程序的情况下

1. 长按拖拽适用电子邮件的附件。
2. 选择要应用的应用程序 (iPOLiS mobile)。
3. 输入文件导出时设置的密码。

❖ 在使用浏览器访问电子邮件的情况下

1. 选择某个文件时，选择“打开方式...”或“分享”，然后选择要应用的应用程序。
2. 输入文件导出时设置的密码。



- 仅 iOS 8.0 或更高版本支持此功能。

3. 编辑收藏夹

将通道添加到“收藏夹视图”

方法 1) 当监视现场视频时

在重播现场视频期间，可以将用户的首选通道添加到“收藏夹视图”。

1. 选择您的视频，然后转到右下角并触摸 <  > 按钮。
2. 当“收藏夹视图”中出现“添加”弹出窗口时，输入说明并进行保存。插入说明是可选操作，您可以在没有任何输入的情况下进行保存。



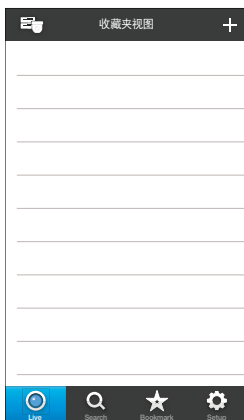
- 在“收藏夹视图”中可以注册多达 100 个项目。如果超出这个限制，则会有选择地删除某些项目。

3. 如果您想查看“收藏夹视图”，请转到“现场”选项卡并触摸 <  > 按钮。将弹出“收藏夹视图”。

方法 2) 当配置新布局时

用户可以为自己注册一个设备并且可以配置它的布局。

1. 触摸位于设备列表左上角的 <  > 按钮并移动到“收藏夹视图”。
2. 触摸 <  > 按钮。



3. 在“摄像机/编码器”和 NVR/DVR 之间选择要注册的设备。
4. 在 4 分屏和 9 分屏模式之间选择分屏模式。
5. 触摸 <  > 按钮。
6. 从设备列表中选择要注册的设备。
7. 为所选择的“收藏夹”屏幕输入一个名称并触摸 <完成>。



- 如果您想更改已注册的通道位置, 请通过拖放来更改通道图片的位置。
- 如果您想注册已注册的通道, 请通过拖放将其移动到 <  > 上。
- 一台摄像机可以组合多个设备并形成一个布局。对于 NVR/DVR 来说, 只能使用一个设备中的通道来形成布局。



修改“收藏夹视图”

1. 触摸“收藏夹视图”屏幕上的“编辑” <  >。
移动到“列出编辑”屏幕。
2. 可以添加或删除通道。可以修改屏幕名称。可以更改图片的位置。

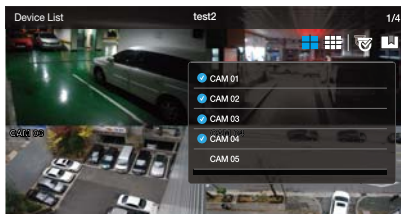


- 对于现场视频中的“收藏夹”设置, 只能更改“收藏夹”名称。

删除“收藏夹视图”

1. 从右向左拖动要删除的“收藏夹”项目。
2. 触摸 <Delete>。
3. 触摸 <保存>。
所选择的“收藏夹”项目将从列表中删除。

4. 现场监视



连接到设备

1. 运行 iPOLiS mobile，并在设备列表出现后，触摸要连接的所需设备。
2. 选择网络摄像机或编码器将以单频道模式显示视频。
3. 选择 DVR/NVR 将以 4 分屏模式显示 4 个分屏的视频画面。



- 对于 NVR，以选择 4/9 通道模式。
- 由于网络环境可能会导致连接不稳定，因此请使用为多通道模式推荐的配置文件。
- 如连接至路由器的设备未注册 DDNS ID，则无法在 3G/LTE 网络条件下使用该设备。

更改频道

1. 如果触摸屏幕，则会在上方屏幕上弹出控制按钮。
2. 触摸频道更改图标 <  >。摄像机列表将会出现。

3. 选择要在屏幕上显示频道。



- 如果是 4 通道模式, 则会将 4 个通道分成一组, 因此如果选择通道 7, 则会显示通道 5 至 8。
- 如果是 9 通道模式, 则会将 9 个通道分成一组, 因此如果选择通道 11, 则会显示通道 10 至 18。
- 如果是“4 通道”模式, 您可以采用 4 个通道为一组进行移动。
- 如果是“9 通道”模式, 您可以采用 9 个通道为一组进行移动。
- NVR 中只提供 9 频道模式。
- 如果您想更改通道的位置, 请通过拖放来更改通道图片的位置。



如果在处于多通道模式时用手指从右向左滑动屏幕, 您将移动到下一个分屏。

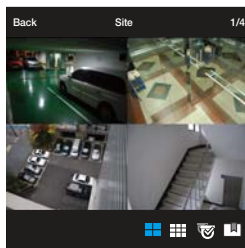
切换至单频道模式



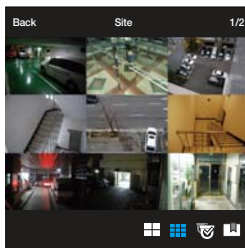
双击其中一个以多通道模式显示的屏幕可将其更改为单通道模式。



- 如果想切换到分屏模式, 则在屏幕的底部, 单击通道图标。



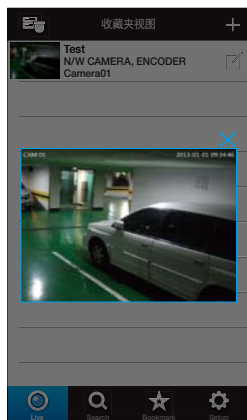
<4 频道模式>



<9 频道模式>

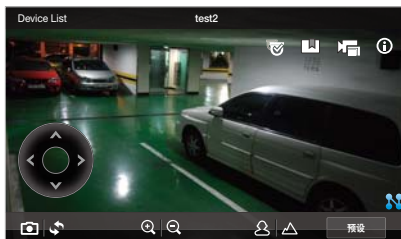
要观看标记为收藏项的视频

1. 选择“Live-<  >”选项卡。
2. 如果单击收藏夹列表中的所需项目，将播放所选列表的现场视频。
3. 单击列表中所需的缩略图图像可查看放大的图像。



5. 控制现场视频

iPOLis mobile 仅在单频道模式支持视频控制。



检查设备信息

可以检查已注册设备的配置信息。

1. 触摸右上角的“检查信息”图标<  >。
2. 一个弹出窗口将会出现，内含已连接设备的基本信息。



- 要更改设备设置, 应该手动更改每个设置项目。

选择配置文件

可以选择摄像机配置文件。

1. 触摸屏幕右上角的“配置文件”<  > 图标。
2. 如果从列表中选择了一个配置文件，则会使用该配置文件显示视频。



- 配置文件选择功能仅支持网络摄像机和一些 DVR/NVR。

如想要移动通道

可以移动注册设备的通道。

1. 点击屏幕右上方区域的移动通道 <  > 图标。
2. 在出现提示时选择您想要移动至的通道，即可移动至该通道。



▪ DVR/NVR 型号支持该功能。

检查视频接收状态

可以使用屏幕右下角显示的 <  > 图标查看视频接收状态。

保存捕捉的屏幕

捕捉当前显示的图像并以图像文件的形式保存到设备存储器中。

1. 触摸屏幕以显示菜单，然后触摸 <  > 图标。
2. 所捕捉的图像便会以图像文件的形式保存在设备的图像文件夹中。

翻转所显示的视频图像

可以通过旋转 180° 来翻转视频图像。

1. 触摸屏幕以显示菜单，然后触摸 <  > 图标。
2. 再次触摸该图标可恢复原来的屏幕。

控制缩放

可以远程控制网络摄像机的光学缩放。

1. 触摸屏幕以在靠近底部的位置显示控制按钮。
2. 对于具有缩放功能的摄像机，触摸 < + > 图标将会放大，触摸 < - > 图标将会缩小。



- 缩放范围和级别因摄像机而异。
- 支持外部 PTZ 功能的箱式照相机将显示放大/缩小按钮，但这些按钮不可用，且数字放大/缩小功能也不可用。
连接至外部平移/倾斜驱动时，光学放大/缩小功能可用。



您还可以通过在屏幕上用两个手指做放大动作来放大。要缩小，请用手指在屏幕上做缩小动作。

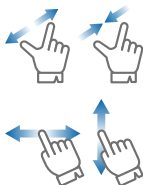
控制数字缩放

此功能用于不支持光学缩放的摄像机。

1. 触摸屏幕以在靠近底部的位置显示控制按钮。
2. 触摸 < + > 按钮可数字放大，触摸 < - > 按钮可数字缩小。



- 当前数字缩放级别会在数字缩放框旁边说明，并且数字缩放最多支持 16 倍缩放。



您还可以通过在屏幕上用两个手指做放大动作来放大。要缩小，请用手指在屏幕上做缩小动作。

如果放大之后图像超出屏幕大小，则触摸并按住屏幕，再向任何方向拖动，可显示图像的隐藏部分。

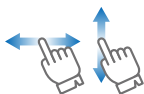
控制平移/倾斜

仅受 PTZ 摄像机支持。

1. 触摸屏幕以在屏幕上显示平移/倾斜控制按钮。
2. 触摸方向按钮会逐步移动摄像机的平移/倾斜。
3. 触摸并按住任何方向按钮可使摄像机向所选方向连续平移和倾斜。



- 平移/倾斜范围和级别因摄像机而异。
- 对于支持外部 PTZ 功能的箱式照相机而言, 连接外部平移/倾斜驱动时平移/倾斜按钮可用。



向上/下/左/右方向拖动屏幕可使摄像机平移/倾斜。请注意, iPOLiS mobile 不能识别对角线方向, 它会将用户拖动解释为最接近的垂直或水平拖动。



- 因为命令需要到达摄像机设备并由摄像机进行处理, 所以处理平移/倾斜结果需要一些时间。视频数据大小会随着摄像机移动而增大, 这可能会导致延迟显示。在 3G 网络中, 接收视频数据需要好几秒钟的时间。
- 在不稳定的网络环境中, 以较低的视频质量设置使用平移/倾斜控制可能有助于减轻这种延迟。

调节焦点

仅受 PTZ 摄像机支持。

1. 触摸屏幕以在屏幕上显示焦点控制按钮。
2. 使用聚焦近 <  > 和聚焦远 <  > 图标以调节焦点范围。



- 该功能是为 DVR/NVR 型号提供的。

收听现场音频

如果网络摄像机支持音频功能，则可以听到声音，在单通道模式下还可以听到存储设备中的音频。



- 对于 DVR，无法将音频设置为低于 200 kbps。

运行预设

您可以运行网络摄像机或 NVR 中保存的预设。

1. 单击预设按钮可上传保存的预设列表。
2. 选择所需列表。您可以运行已保存在摄像机或 NVR 中的预设。



- 只有支持外部 PTZ 功能和新的 CGI(SUNAPI) 的摄像机型号才提供预设功能。
- 只有在支持新的 CGI 的 NVR 型号 (SUNAPI) 中才提供预设功能。

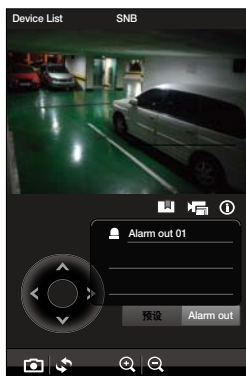
要控制报警输出

可以执行保存在网络摄像机中的报警输出。

1. 单击 Alarm out 按钮可以加载报警输出列表。
2. 通过报警输出列表可以查看每个列表的当前状态。
 - 蓝色: 报警输出开
 - 白色: 报警输出关
3. 选择所需的列表。可以控制保存在摄像机中的报警输出（开/关）。



- 只有支持新 CGI(SUNAPI) 的摄像机型号才会提供警报输出功能。



6. 搜索/播放保存的视频

如想要按照日期/时间进行播放

点击屏幕底部的位置选项卡 <  > 图标，即可查看可播放设备的列表。

1. 选择并点击要播放的设备。
2. 选择想要播放的通道。
3. 在日历中将会显示可播放数据存储在所选设备通道中的日期。触摸日历上年/月指示器两端的 < ◀, ▶ > 可浏览至上个月/下个月。
4. 如点击您想要播放的数据的日期，将出现循环式时间线（24 小时）。存储有可播放数据的时区将使用不同的颜色予以分类。

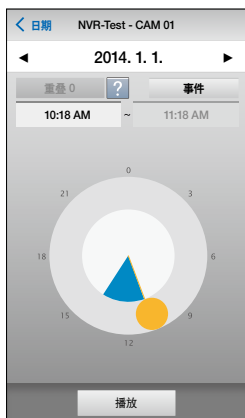


- 如果相同时间范围有重叠的多个数据，则重叠的列表将会出现。
- 对于网络摄像机，会忽略上面的 2、3 频道选择过程。
- 对于网络摄像机而言，仅有支持新 CGI(SUNAPI) 的设备类型具备播放功能。

播放搜索到的视频

在使用日期/时间进行搜索之后，可设置开始时间以播放所选视频。

1. 查看时间线并拖动 [●] 至所需的时间区，并设置开始时间或手动输入时间
 2. 触摸 <播放> 按钮，以开始视频播放，视频会从开始时间起播放约 60 分钟。
- 如果要播放的录制视频含没有视频的间隔，播放将会跳过此类间隔，并从下一个现有位置继续。显示的播放时间可能会与实际录制时间不相同，具体视网络性能和播放设备而定。
 - 为确保播放流畅性，不支持音频。



播放事件搜索到的视频

按照日期/时间完成搜索后，设置开始/结束时间以查看视频。

1. 触摸 <事件> 按钮，以选择所需事件，然后触摸 <完成>。
2. 查看时间线并拖动 [●] 至所需的时区，并设置开始/结束时间或手动输入时间。
 - 开始时间和结束时间应设置为少于 60 分钟。

取消	事件	完成
所有		
移动探测		
传感器		
视频分析		
音频探测		

3. 触摸 <完成> 按钮，以显示指定时间段内的事件列表。
4. 选择所需的列表，以播放视频。

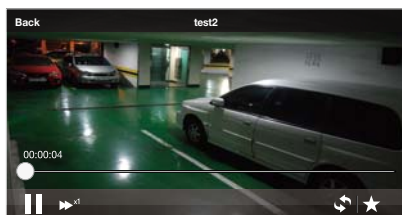


- 如果视频从开始到结束不到 60 分钟，则它会跳到下一个现有视频继续播放。由于网络或播放设备的解码性能，显示的播放时间可能与实际的录制时间稍有不同。
- 为确保播放流畅性，不支持音频。

< 返回	事件列表
12:00 AM ~ 1:00 AM	
	传感器 2014. 1. 1. 12:00:00 AM - 12:03:12 AM
	移动探测 2014. 1. 1. 12:03:13 AM - 12:04:24 AM
	传感器 2014. 1. 1. 12:04:25 AM - 12:04:57 AM
	移动探测 2014. 1. 1. 12:04:58 AM - 5:56:54 AM

控制播放

此应用程序提供基本播放控制。



1. 触摸屏幕以在靠近底部的位置显示控制按钮。
2. 若要停止播放，请触摸 < || > 按钮。然后播放会暂停并且该按钮切换到 < ► >。
3. 要继续播放，请触摸 < ► > 按钮。
4. 要控制播放速度，请触摸 < ►► > 按钮，播放速度指示器便会出现。
5. 视频将以所选播放速度播放。
6. 触摸 < ↺ > 图标以通过旋转 180° 来翻转视频图像。

使用时间线

通过在时间线上选择时间点，您可以跳到特定的播放点。

1. 触摸屏幕以显示 60 分钟的时间线。
2. 触摸时间线上的时间挑选器 , 并将它拖到所需的时间点以跳到该点。
3. 触摸时间线会自动暂停视频播放。
移动时间挑选器并触摸  按钮以继续播放。

使用书签

可为视频上的某个播放点创建书签以作为起点。

1. 播放视频时，在所需的点触摸  按钮以创建书签。
2. 添加书签弹出窗口将会出现，请在其中输入书签的说明并保存书签。即使您不输入备忘录，也会保存书签。



- 最多可以添加 100 个书签，并且在超出此限制之后，可以选择性地删除书签。

3. 要从已建立书签的点开始播放视频，请移至主屏幕上底部的书签  标签。
4. 从列表中选择所需的书签。



- 已创建书签的视频的播放控制与搜索到的视频的播放控制完全相同。
- 播放书签时，可以再次使用书签功能。

❖ 已存储视频的网络数据传输量

编解码器	分辨率	帧速率	压缩	带宽
H.264	640 x 480	10fps	10	0.69 Mbps
H.264	640 x 480	20fps	10	1.30 Mbps
H.264	800 x 600	10fps	10	1.10 Mbps
H.264	800 x 600	20fps	10	1.90 Mbps



- 上述网络数据传输是根据 SNB-7000 计算的。
- 网络摄像机最高支持全高清 (1920 x 1080) 分辨率。
仅受支持的存储设备兼容全高清分辨率。
- 为了正确顺畅地播放已存储的录制内容, 如果网络存在干扰, 则需要高于指定最小**带宽**的下载带宽。

7. 设置 iPOLiS mobile

添加设备

- 请参阅第 3 ~ 6 页。

设置/取消/更改密码

1. 触摸主屏幕底部的设置 <  > 标签。

2. 将 < 设置密码 > 旁边的滑块滑向右边，使得显示 <  >。
输入新密码。



- 设置符合下列要求的密码。

- 长度为 8 到 9 位字符: 字母、数字和特殊字符的组合。
- 长度为 10 到 32 位字符: 至少包含下列两种类型的字符组合: 字母、数字和特殊字符。
- 不要使用 4 位或 4 位以上连续或重复的字符或键顺序 (例如: abcde123456, aaaaa11111, qwerty!@#\$)
- 允许的特殊字符: -/;()&@.,?!"[]{}#%^*+=_W|~<>\$£¥

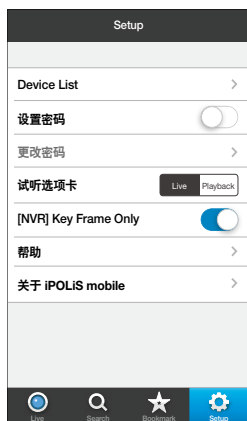
3. 要取消密码设置，请将 <设置密码> 旁边的滑块滑向左边，使得显示 <  >。

4. 如果输入当前注册的密码，密码设置将会取消。

5. 要更改密码，请触摸 <更改密码> 并输入新密码。



- 如果您忘记了密码，请卸载该应用程序，然后下载该应用程序以再次安装。



设置起始页

1. 从设置页面的“**试听选项卡**”菜单中选择起始页屏幕，在执行 iPOLiS mobile 时，将会显示该屏幕。
2. 选择 <Live> 将显示现场设备列表，选择 <Playback> 将在开始时显示设备搜索。

如想要设置 NVR 帧模式

1. 对于新款 CGI (SUNAPI) NVR 设备 4/9 通道而言，可以设置“Key Frame Only”。
2. 如选择“Key Frame Only”，将仅显示视频的主要帧。
3. 如未选择“Key Frame Only”，则显示设备传送的完整帧。



- 由于用户环境（设备、网络等）不同，帧数量也可能发生变化。

查看帮助屏幕

在“设置”选项卡中，触摸 <帮助>。



- iPOLiS 手机提供 13 种不同语言的帮助。

检查软件版本

1. 在设置页面中触摸 <关于 iPOLiS mobile>。

2. 您可以检查当前软件版本的信息。



- 此应用程序使用符合 LGPL V2.1 的 FFmpeg。

8. 支持 iPOLiS mobile v2.8 的型号

Device Model		Firmware version
N/W Camera	Box/Dome	SNB-9000
		SNB-5000/A, SND-5080/F, SNV-5080/R, SNV-5010, SNO-5080R
		SNB-7000, SND-7080/F, SNV-7080/R, SNO-7080R
		SND-1001, SND-1080, SND-1011, SNO-1080R, SNV-1080/R
		SNB-3002, SND-3082, SNV-3082/F
		SNB-5001, SND-5061, SND-5011, SND-5010
		SNB-7001, SND-7061, SND-7011
		SNB-7002, SND-7082/F, SNV-7082, SNO-7082R
		SNZ-5200
		SNV-3120
		SNZ-6320
		SNV-7082V, SND-7082V, SND-7082FV, SND-7082RV
		SNB-6004, SNB-6003, SND-6084, SND-6083, SNB-5004, SNB-5003, SND-5084/5083, SNV-5084, SNO-5084R, SND-5084R, SNV-5084R, SNV-6012M, SNV-6084, SNO-6011R, SND-6011R
		SNV-6085R, SNV-L6083R
		SNO-6084R, SND-6084R, SNV-6084R
		SNB-6005, SNB-6004F, SNB-6011, SNB-6010A, SNO-6095RH
		SNF-7010, SNF-7010V, SNF-8010/VM
		SND-7084/R, SNO-7084R, SNV-6013, SND-6013, SNV-7084/R, SNB-6010(ATM), SNB-7004
		SND-L6012, SND-L6013, SND-L6013R, SND-L6083R
		VPM-4020DR, SND-L6014R, SND-K2013R, VPM-4040DR, SND-K2083R
		SNO-L6013R, VPM-4020DR, SNO-L6014R, SNO-K2013R, SND-L6014R/V/SK, SNO-L6014R/V/SK, SND-L6014R/V/S1, SNO-L6014R/V/S1
		SNO-L6083R, VPM-4040R, SNO-K2083R
		SNB-8000, SNV-8080, SNV-8081R, SNO-8081R
		SNB-S202, SNB-S201, SND-S202, SND-S201, SNO-S202R, SND-S202R, SNB-S102, SNB-S101, SND-S102, SND-S101
		SNO-L5083R, SNV-L5083R, SND-L5083R, SND-L5013
	PTZ	SNP-3120/V/H
		SNP-5200/H
		SNP-5300/H
		SNP-3371/H/TH
		SNP-3302/H
		VPM-4600RH, SNP-0232RH-00
		SNP-6200/H, SNP-6200RH, SNP-6201/H, SNP-6320/H/RH, SNP-5430/H, SNP-6230RH
		SNP-6321/H, SNP-5321/H
		SPE-100, SPE-400, SPE-1600R, SPE-101
		SRD-1694/1685
DVR	Live & Playback	SRD-494/984
		SRD-1670/1650/1630/1610(D/DC), SRD-870/850/830(D/DC), SRD-470(D)
		SRD-1652D/852D, 1650DU
		SRD-1671/1651/871/851/471
		SDR-5100, SDR-4100/4101
		SDR-3100
		SDR-5200/4200, SRD-1654D/854D, SRD-473D
		SRD-1673(D)/873D, 1653D
		SRD-476D/876D/1676D
		SRD-456/856/1656
		SDR-3102/4102/5102
		SRD-842/1642
		SRD-1680D/880D
		SRD-445
		SRD-482
		SRD-443
	Live only	SRD-440
		SRD-442
		SRD-1640/840
		SRD-1641/841
		SDE-5001/5002/4001/4004(V)
		SDE-3001/3003
		SDE-4001/4002/5001/5002
NVR	H/W	SRN-4700, SRN-1670D, SRN-1671, SRN-1000
		SRN-4000, SRN-472S
	S/W	SRN-1673S, SRN-873S, SRN-473S
		NET-i ware

9. OPEN SOURCE ANNOUNCEMENT

OPEN SOURCE ANNOUNCEMENT

- **LGPL 2.1** : FFmpeg
- **BSD 2.0** : ed-pad
- **MIT License V2** : dlc.sh-GUI, SAS-iPad-App, TweetNow

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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Preamble

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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