

网络控制器

用户手册

SPC-7000



网络控制器 用户手册

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请每隔三个月更改密码以保护个人信息并避免因信息失窃造成损失。
请注意，用户应负责安全以及密码管理不善导致的其他问题。

概述

重要的安全说明

1. 请阅读这些说明。
2. 请您妥善保存这些说明。
3. 请您遵守所有的操作说明。
4. 请您注意所有的警告说明。
5. 请您不要在水源附近运行本机器。
6. 使用柔软干布或湿布清洁产品表面的污染区域。
(请勿使用含有酒精、有机溶剂或表面活性剂、或含油成分的清洁剂或化妆品，此类物质可能使产品变形或受损。)
7. 请您不要堵塞通风口，在装入机器时，请您注意制造商的说明。
8. 请您不要将此机器放置在热源附近，如散热器，炉子或其它发热设备。
9. 请您绝对不要移去双线插头或有接地插头的安全装置，双线插头有两个不同宽度的插塞接点，接地插头有两个插塞接点和第三个接地接点。较宽的插塞接点或附加的接地接点是用以确保您的安全的，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。



警告

为防止火灾或电击等引起的破坏，不要把产品暴露于水中或潮湿处。请勿穿过设备上的通风栅格或其他开口插入任何金属物体。

请勿将设备放置于滴水或溅水的地方，且勿将装有水的物体（如花瓶）放在设备上面。

注意

	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		

图形符号说明



等边三角形内带箭头的闪电符号用于警告用户：产品机壳内存在“危险电压”，其电压量足以对人员构成电击危险。



等边三角形内的感叹号用于警告用户：产品附带的文字中包含重要的操作和维护（维修）说明。

概述

请仔细阅读以下建议的安全预防措施。

- 请勿将本设备放置于不平的表面上。
- 请勿安装在暴露在直射阳光下、靠近供暖设备或非常寒冷区域的表面上。
- 请勿将本设备放置在传导物体附近。
- 请勿自行维修本设备。
- 请勿将一杯水放在产品上。
- 请勿安装在任何磁源附近。
- 请勿堵塞任何通风口。
- 请勿在产品上放置任何重物。
- 在安装/拆卸摄像机时，请佩戴防护手套。
产品表面温度较高，可能有烫伤的危险。

用户手册是如何使用产品的指导书。

书中所用符号的含义如下。

- 参考：用于提供产品用法的帮助信息
- 注意：如果不遵照说明是否有可能对物品和人员造成任何损害

※ 在使用物品之前请阅读本手册以保证安全，并将它保存在安全的地方。

3	概述	3	重要的安全说明	配置设置项	14	安装
		5	目录		14	开始使用
		6	主要特性		15	设置菜单
		6	附带提供的物品		15	设备
		7	部件名称与功能		16	控制
					18	网络
					18	系统环境
9	安装	9	注意事项	控制	20	控制摄像机
		9	在安装之前		23	控制储存装置
		10	组装控制旋钮/操纵杆	20		
		10	调节 LCD 屏幕角度			
		10	切换操纵杆和慢进梭的布局			
11	连接至外部设备	11	连接 RS-485/422 设备	附录	27	规格
		13	连接至其他系统控制器		27	问题与解答
					28	GPL/LGPL Software License

概述

主要特性

SPC-7000 网络控制器通过网络控制网络/模拟摄像机、DVR 和 SSM 程序。它提供含有屏幕菜单的用户友好界面、触摸屏和操纵杆。

- 远距离远程控制
- 集成系统控制
- 单个网络控制器可以控制摄像机（接收器单元）、DVR 和 SSM 程序。
- 可通过 SSM 控制网络摄像机及 NVR。
- 可以连接用于多个控制器
- 可以从多个位置控制系统，最多同时可以连接 16 个单元供使用。
- 为了方便用户操作，操纵杆和慢进梭模块的位置可以左右切换。
- 用户友好界面

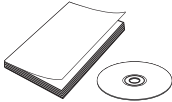
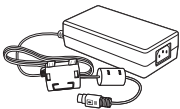
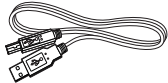
系统控制器的操作状态显示在屏幕上；触摸屏可让您轻松选择菜单；操纵杆使得操作简单方便。

❖ 可控产品及程序列表

- 摄像机
- SSM
- DVR

附带提供的物品

拆开产品包装，然后把产品放在地板上或平展的表面上。检查产品包装中是否包括下列所有组件。

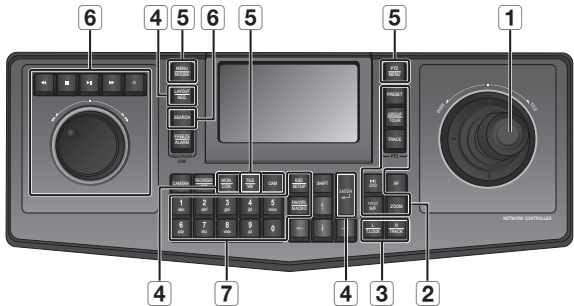
		
主机	用户手册或用户手册 CD	电源适配器
		
电源线	USB 线缆	触摸笔
		
接线端子		



- 将控制旋钮及操纵杆连接至主机后即可使用。

部件名称与功能

前面



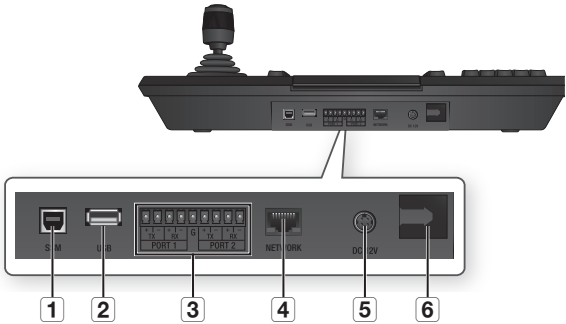
名称		功能
1	控制杆	上/下/左/右 在云台模式下，可以控制平移和倾斜运动。 在屏幕模式下，可以更改上/下/左/右倾斜选择。 在鼠标模式下，可以移动鼠标光标。
	旋转	在云台模式下，沿 WIDE 方向移动时，屏幕将拉远，沿 TELE 方向移动时，屏幕将拉近。
2	PTZ control	[FOCUS N/F] + [左箭头] 运行聚焦近处/聚焦远处动作。 - [FOCUS N/F] + [左箭头]：聚焦近处 - [FOCUS N/F] + [右箭头]：聚焦远处 ■ 使用 ON/OFF 切换键操作[FOCUS N/F]键。
		[FOCUS N/F] + [右箭头]
		[IRIS C/O] + [右箭头] 运行 IRIS 开启/IRIS 关闭操作。 - [IRIS C/O] + [右箭头]：IRIS 开启 - [IRIS C/O] + [左箭头]：IRIS 关闭 ■ 仅在模拟摄影机、SSM 和 DVR 控制模式下运行。 ■ 使用 ON/OFF 切换键操作[IRIS C/O]键。
		[IRIS C/O] + [左箭头]

名称		功能
2	云台控制	[PRESET] 点击[PRESET]+数字+[PRESET] 按钮时，激活各按钮号对应的预设。
		[GROUP] 点击[GROUP]+数字+[GROUP] 按钮时，激活各按钮号对应的组/扫描。
		[TOUR] 单击 [SHIFT] + [GROUP/TOUR] + [SHIFT] + [GROUP/TOUR] 按钮开始教程。
		[TRACE] 点击[TRACE]+数字+[TRACE] 按钮时，激活各按钮号对应的模式/跟踪。
		[ZOOM] + [右箭头] 执行拉近动作。
		[ZOOM] + [左箭头] 执行拉远动作。 ■ 使用 ON/OFF 切换键操作[ZOOM]键。
3	鼠标控制	[L(T. LOCK)]/[R(TRACK)] 在鼠标模式下使用鼠标的左/右按钮。
4	屏幕控制	[MON.(CON.)] 在屏幕模式下（按照监视器排序的上一个/下一个）按数字 + [MON.(CON.)] 按钮可以更改更多显示器选择。
		[LAYOUT(SEQ.)] 点击数字 + [LAYOUT (SEQ.)] 按钮时，将激活各按钮数字对应的布局。
		[CAM] 点击数字 + [CAM] 按钮时，将激活各按钮数字对应的摄像机。
		[ENTER] 点击一下将在实时查看器上显示某一个屏幕。 再点击一下将返回至原屏幕。 在实时查看器中点击数字 + [ENTER] 按钮时，将按照所输入的数字分割屏幕画面。
		数字 + [TILE(VM)] 移动至数字对应的区块。

概述

名称		功能
5	更改模式	[PTZ(MENU)] 更改云台模式。 在云台模式下点击 [PTZ (MENU)] 按钮将切换至屏幕模式。
		[SHIFT] + [MENU(Mouse)] 更改鼠标模式。 在鼠标模式下点击 [SHIFT] + [MENU (Mouse)] 将切换至屏幕模式。
		[SHIFT] + [Mon.(Con.)] 更改控制台模式。
		[SHIFT] + [TILE(VM)] 运行 VMD 控制。
6	播放屏幕控制	[SEARCH] 通过实时/搜索输出当前视频
		 将停止播放视频。
		 播放和暂停播放视频。
		 开始/结束手动录制视频。
		飞梭旋钮 按顺时针方向转动旋钮时为快进播放，按逆时针方向转动旋钮时为快退播放。
		调节旋钮 执行帧度精确搜索。
7	0 ~ 9 数字输入按钮。	
	[ESC(SETUP)] 返回至上一页面。	

背面



项目		说明
1	SSM	连接至电脑、控制 SSM的端子。
2	USB	用于备份系统控制器设置或升级固件。
3	RS-485	PORT 1 通过 RS-485 通信连接至控制器,例如摄像机或 DVR。
		PORT 2 连接至其他 SPC-7000 系统控制器。
4	NETWORK	网络接口终端。
5	DC 12V	DC 12V 输入端口 (— — — — — +)
6	电线钩	防止电源线松脱。  在安装和使用控制器时，请务必使用电线钩。

安装

注意事项

在您安装产品之前，请通读下列说明并遵照其行事。

- 本产品设计为仅供在室内使用。
 - 请让它远离水或湿气。
 - 切勿让产品受到过大的压力。
 - 切勿强行拔出电源线。
 - 切勿自行拆开。
 - 仅使用额定的 I/O 范围。
 - 仅使用提供的电源线。
 - 尽可能使用带地线的电源插头。
 - 将系统控制器安装在平展的桌子上。
 - 主装置和接线系统的布局非常重要，直接影响系统是否能够正常工作。
 - 如果设备相互靠得太近，或者位于通风不良的环境中，则系统可能无法正常工作。访问系统不方便可能会使维修困难，或者甚至无法进行。
 - 要防止系统故障或缩短系统关机时间，请留出足够的空间用于通风并关紧护盖。
 - 切勿随意拆开系统控制器，因为系统控制器内部有高压。
- 工作温度：0° C ~ 40° C
 - 存放温度：-20° C ~ 60° C
 - 工作湿度：20% ~ 85% RH
 - 功耗：DC 12V, 最大 6.4W (—(—(—+))
 - 请使用随附的专用电源适配器。

在安装之前

- 必须先关闭产品再进行安装。
- 强大的冲击力或强烈震动可能会导致系统故障。
- 应使产品远离强磁场或电子干扰，或者收音机或电视机等无线设备。
- 安装产品时或在安装产品之后，都要使安装地点保持清洁无尘。
- 将产品放在温度适宜的宽敞平展表面上。
安装产品时，至少必须与墙壁保持 15cm 的距离。
- 不要堵塞通风孔或在通风孔中放入传导性物体。
- 切勿将产品放在阳光直射处。不要将配件或工具放在人们触手可及处，以避免造成人身伤害。
- 对异常的烟雾或气味置之不理可能会导致火灾或电击。
如果出现这种情况，请立即关闭产品，然后与我们联系以取得技术帮助。
- 如果您发现以下情况，请采取适当的措施：地板潮湿、电源延长线未接地、电源线脱皮或未安全接地。
 - 使用干布擦干。如果非常污脏，请使用蘸有中性洗涤剂的布擦干净。
不要使用酒精、苯或稀释剂等易挥发的溶剂，它们可能会损坏产品表面。
 - 高温环境将缩短 LCD 显示屏的使用寿命，因此请勿在高温环境下使用。

安装

组装控制旋钮/操纵杆

安装控制旋钮/操纵杆时，按压控制旋钮/操纵杆，直到发出咔嗒声。



调节 LCD 屏幕角度

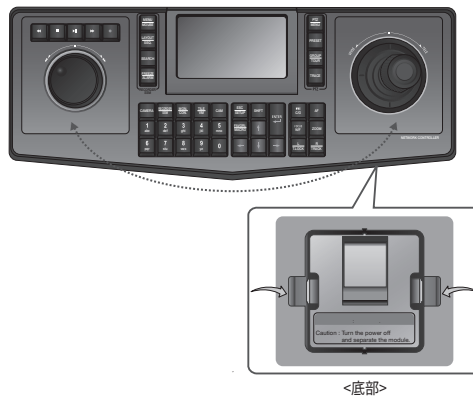
您可以将屏幕向前拉，以取得更好的观看效果。



切换操纵杆和慢进梭的布局

您可以切换操纵杆和慢进梭模块的位置以方便您使用。

- ! 要进行左右切换，请关闭系统控制器并手动切换模块。或者，按 <更改模块> 在控制器设置菜单中并手动切换模块。（第 18 页）



1. 用双手按压控制器机身底部的钩子，将模块从主机上拆卸下来。
2. 从控制器中取出操纵杆和慢进梭模块并切换位置。完成后，插入模块，直到听到咔嗒声为止。



连接至外部设备

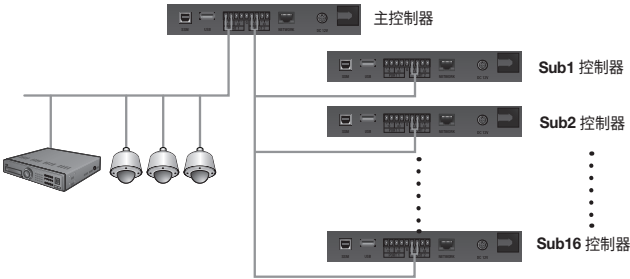
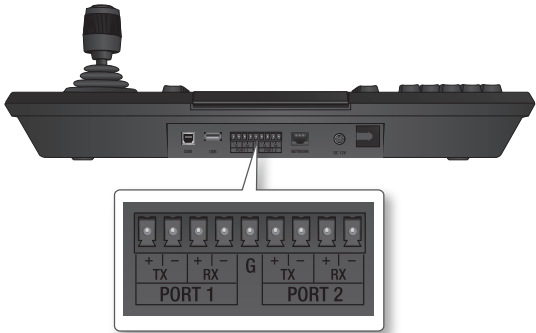
可通过连接至摄像机、DVR 和其他外部设备使用 SPC-7000 网络控制器。

连接 RS-485/422 设备

可使用该控制器控制支持 RS-485/422 通信的 PTZ 摄像机和 DVR。

1. 连接背面的 PORT 1 与 PTZ 摄像机或 DVR 的 RS-485 端口。
2. 根据连接的外部设备，选择 RS-485（半双工）或 RS-422（全双工）连接。

- 对于半双工系统，请使用 TX +/- 端子。
- 对于 RS-485/422 通信，特别要注意极性 (+/-)。
- 为了降低 RS-485 通信噪声，请将摄像机/DVR 设备的 G 端子连接至 SPC-7000。
- 接地时，请确保关闭产品。
- 使用产品包装中提供的接线端子。
- 请检查 RS-485/422 设备与 SPC-7000 是否兼容。



连接 PTZ 摄像机。

通过连接 PTZ 摄像机背面的 RS-485 端口与 SPC-7000 的 PORT 1，您可以控制摄像机。

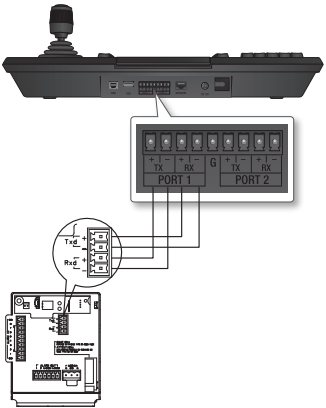
- 根据摄像机，极性可能会不相同。
有关更多信息，请参阅 PTZ 摄像机的用户手册。

对于半双工系统 (RS-485)

- 将 PTZ 摄像机 RS-485 端口的 RX (+) 连接至 SPC-7000 PORT 1 的 TX (+)。
- 将 PTZ 摄像机 RS-485 端口的 RX (-) 连接至 SPC-7000 PORT 1 的 TX (-)。

对于全双工系统 (RS-422)

- 将 PTZ 摄像机 RS-485 端口的 RX (+) 连接至 SPC-7000 PORT 1 的 TX (+)。
- 将 PTZ 摄像机 RS-485 端口的 RX (-) 连接至 SPC-7000 PORT 1 的 TX (-)。
- 将 PTZ 摄像机 RS-485 端口的 TX (+) 连接至 SPC-7000 PORT 1 的 RX (+)。
- 将 PTZ 摄像机 RS-485 端口的 TX (-) 连接至 SPC-7000 PORT 1 的 RX (-)。



连接至外部设备

连接 SRD-16XX/8XX 类型 DVR

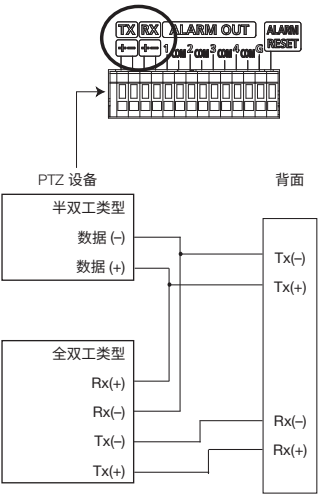
使用 DVR 背面的 RS-485 端口连接 DVR 和 SPC-7000。

对于半双工系统 (RS-485)

- 将 DVR RS-485 端口的 TX (+) 连接至 SPC-7000 PORT 1 的 TX (+)。
- 将 DVR RS-485 端口的 TX (-) 连接至 SPC-7000 PORT 1 的 TX (-)。

对于全双工系统 (RS-422)

- 将 DVR RS-485 端口的 TX (+) 连接至 SPC-7000 PORT 1 的 RX (+)。
- 将 DVR RS-485 端口的 TX (-) 连接至 SPC-7000 PORT 1 的 RX (-)。
- 将 DVR RS-485 端口的 RX (+) 连接至 SPC-7000 PORT 1 的 TX (+)。
- 将 DVR RS-485 端口的 RX (-) 连接至 SPC-7000 PORT 1 的 TX (-)。

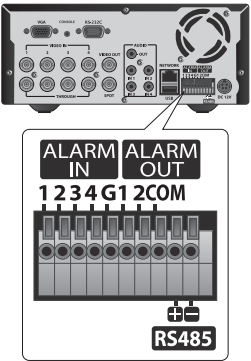


连接 SRD-4XX 类型 DVR

将 SRD-4XX 背面的 RS-485 插口连接至 SPC-7000。

❖ 对于半双工系统 (RS-485)

- 将 SRD-4XX 插口 TX (+) 连接至 SPC-7000 端口 1 的插口 TX (+)。
- 将 SRD-4XX 插口 TX (-) 连接至 SPC-7000 端口 1 的插口 TX (-)。

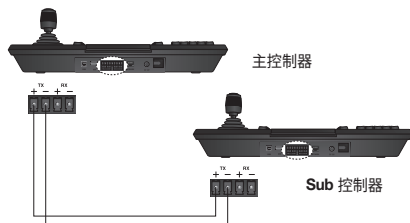


连接至其他系统控制器

- 最多可同时连接 16 个控制器。
- 对于控制器的通信设置，请参阅“设置控制器 ID”的“菜单设置”。（▶ 第 17 页）

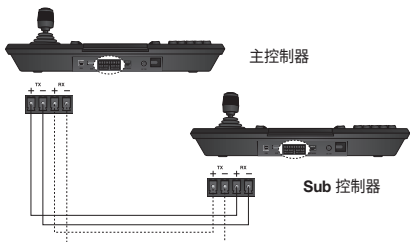
对于半双工系统 (RS-485)

- 将 SPC-7000 PORT 2 的 TX (+) 连接至另一 SPC-7000 PORT 2 的 TX (+)。
- 将 SPC-7000 PORT 2 的 TX (-) 连接至另一 SPC-7000 PORT 2 的 TX (-)。



对于全双工系统 (RS-422)

- 将主控制器 SPC-7000 PORT 2 的 TX (+) 连接至辅助控制器 SPC-7000 PORT 2 的 RX (+)。
- 将主控制器 SPC-7000 PORT 2 的 TX (-) 连接至辅助控制器 SPC-7000 PORT 2 的 RX (-)。
- 将主控制器 SPC-7000 PORT 2 的 RX (+) 连接至辅助控制器 SPC-7000 PORT 2 的 TX (+)。
- 将主控制器 SPC-7000 PORT 2 的 RX (-) 连接至辅助控制器 SPC-7000 PORT 2 的 TX (-)。

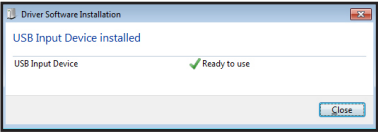


- 如果要控制其他系统控制器，则必须使用 PORT 2。

配置设置项

安装

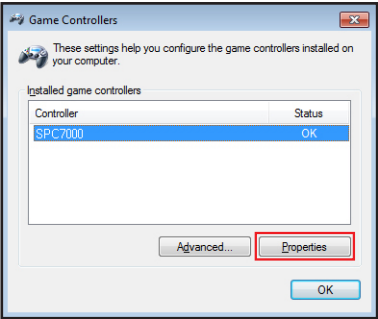
1. 请在开机状态下将控制器的 SSM 端子连接至电脑的 USB 接口。
2. 将打开显示有 ‘搜索到新设备的窗口’ 的窗口。
3. 电脑将自动识别设备。
 - 必要时，请按弹出的安装界面指示安装设备。
4. 设备被识别后，在 Windows 控制面板的游戏控制器列表上将显示已安装的控制器。
[Start] > [Devices and Printers] > [Game Controllers]



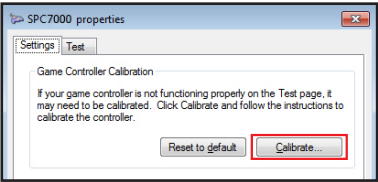
校正控制器的步骤

- 为正确使用控制器，需要校正轴。

1. 移动至 [Start] > [Devices and Printers] > [Game Controllers]，右键单击已安装的控制器，然后选择属性 [Properties]。

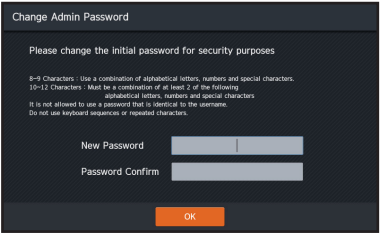


2. 请在设置窗口上点击 [Calibrate...] 按钮运行 ‘设备校准向导’ ‘Device Correction Wizard’。
3. 根据屏幕指示校正轴。



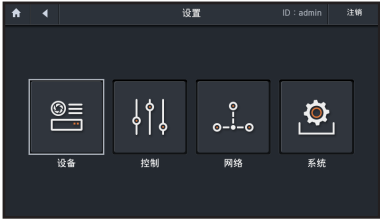
开始使用

1. 打开所有系统组成设备。
2. 连接控制器背面的电源适配器并打开电源，即出现登录界面。
3. 请用数字键或触摸屏上的键盘输入密码后点击 <登录> 按钮。
 - 默认密码为 “4321”。
4. 首次登录时，出现密码设置提醒窗口。请设置密码后点击 <OK> 按钮。
 - New Password: 按密码设置规则输入新密码。
 - Password Confirm: 再次输入新密码。



设置菜单

出现系统设置界面时，选择所需的设置项。



设备

自动注册设备的步骤

可对连接至局域网的网络摄像机进行搜索并注册。

1. 选择<自动注册>复选框并按 <确定> 按钮。



2. 请在搜索到的摄像机列表中选择想要注册的摄像机后按 <测试> 按钮。



3. 输入<ID>和 <密码>后按 <测试> 按钮以访问摄像机。

4. 按<确定> 按钮，注册选定的摄像机。

- 型号：显示摄像机型号名称。
- IP 地址：显示网络摄像机的IP地址
- 状态：显示成功或错误代码指南信息。



手动注册设备的步骤

- 添加网络设备

1. 选择<手动注册>复选框并按 <确定>按钮。



2. 输入IP地址信息。



配置设置项

- 3. 按<ID/密码> 按钮后输入 ID、密码和端口号。
- 4. 按<测试> 按钮以访问摄像机。
- 5. 确认测试结果。
- 6. 按<确定> 按钮完成注册。



• 添加模拟设备

- 1. 选择 <手动注册> 复选框，然后按 <确定> 按钮。
- 2. 将设备类型选为 <模拟>。
- 3. 选中各项，输入 ID、类型、协议和传输速度。
 - 将类型选为 <模拟摄像机> 后方可选择协议。
- 4. 按下 <确定> 按钮完成注册。



更改设备信息

可更改已注册设备的信息。

- 1. 选择要更改信息的设备。
- 2. 在屏幕底部显示的设备信息版块更改设备信息。
 - 由于所选设备类型不同，将显示不同的修改信息。
- 3. 更改完设备信息后，按<确定> 按钮。



删除设备

- 1. 选择要删除的设备后按<删除> 按钮。
- 2. 将出现初始化确认弹出窗口。
 - 按下 <初始化> 按钮，将删除所选设备。
- 3. 按下弹出窗口中的 <全部删除> 按钮和 <全部初始化> 按钮，将删除所有已注册的设备。

控制

语言

可以选择用户界面的首选语言。

- 1. 按 <语言>。
- 2. 从随后出现的语言选择屏幕中，使用方向按钮或操纵杆选择首选语言。
 - 语言将立即更改为所选语言。
- 3. 要退出语言选择屏幕，请按 <取消>。



用户和密码

可更改管理员的密码及授予设备 ID。

添加用户的步骤

1. 从菜单中选择 <用户和密码>。
2. 点击 <添加> 按钮。
3. 选择要分配至该用户的设备。
4. 选择是否使用密码。
5. 若要使用密码，按 <ON> 后设置要使用的密码。
6. 设置完密码后，按 <确定> 按钮。



■ 如果密码不符合密码策略，您需要选择符合密码设置要求的密码。

更改用户信息的步骤

可在用户信息页面更改密码。

1. 请选择要更改信息的用户后按 <修改> 按钮。
2. 设置详细信息以再次修改。
 - 仅“admin”能够更改密码。
3. 设置密码后，按下 <确定> 按钮。



删除用户的步骤

可选择并删除已注册的用户。

1. 选择要删除的用户后按下 <删除> 按钮，将出现确认删除的弹出窗口。
2. 按下 <确认 (OK)> 按钮，将删除所选用户。
3. 按下弹出窗口中的 <全部删除> 按钮和 <确定> 按钮后，将删除所有已注册的设备。
 - 由于“admin”是管理员，无法删除。

操纵杆按钮操作

选择要与操纵杆配合使用的项目，然后按下 <确定> 按钮。
此功能将根据操纵杆选择方式运行。



设置控制器 ID

连接各控制器时，您可以设置主或子控制器，且可以选择要使用的控制器的 ID 和协议。

1. 选择 <控制器 ID> 菜单。
2. 输入要使用的控制器 ID。
3. 选择 RS-485 或 RS-422 设置控制器的通信方法。
4. 选择主或子控制器，并设置详细信息。
 - 如果要在连接至多个控制器时使用该功能，请设置子列表。
5. 设置完成后，请单击 <确定> 按钮。



配置设置项

更改模块

您可以设置操纵杆按钮的操作。

- 1. 选择 <更改模块> 菜单。
- 2. 您还可以检查电源是否关闭，并按下 <结束> 按钮即可通过操纵杆切换轻推式开关位置。
- 3. 检查当前设置，然后按 <取消>。



网络

设置网络连接方式及连接环境。

- IP 类型：选择网络连接类型。
- IP 地址：子网、网关、DNS。
如为 <静态> 连接：可直接输入IP地址、子网、网关和 DNS。
如为 <DHCP> 连接：将自动设置IP地址、子网和网关。

■ 如果手动设置 DNS 模式，可直接输入 DNS IP 信息。



系统环境

您可以使用 USB 存储器中的固件文件来更新当前固件。

更新控制器固件

您可以下载最新的固件文件并更新控制器。

- 1. 请将存储有新版本固件的 USB 存储装置连接至网络控制器。
- 2. 从菜单设置屏幕中，按 <系统>。
- 3. 按 <更新固件>。
- 4. 请按升级窗口中的 <确定> 按钮。
- 5. 等待到更新后系统重新启动。



■ 在更新期间，不要拔下 USB 存储器或断开电源。否则，可能更新固件可能会失败，或者可能会导致系统故障。

重置为出厂默认值

您可以将当前设置恢复为出厂默认值。

- 1. 按 <重置为出厂默认值>。
- 2. 按 <重置>。
当设置将恢复为出厂默认值。
- 3. 要退出菜单，请按 <取消>。



备份控制器设置

如果要更改控制器或更换摄像机，则可以将控制器的设置保存为文件，并将控制器设置装入到新摄像机中。

1. 从菜单设置屏幕中，按 <系统>。

2. 按 <保存配置信息>。

3. 按 <确定>。

备份过程将会开始。



- 在备份期间，不要拔下 USB 存储器或断开电源。否则，备份控制器设置可能会失败。



还原控制器设置

如果不正确设置控制器或将其重置，则可以将当前设置上传到另一个控制器。

1. 从菜单设置屏幕中，按 <系统>。

2. 按 <导入配置信息>。

3. 按 <确定>。

还原过程将会开始。



- 在还原期间，不要拔下 USB 存储器或断开电源。否则，还原控制器设置可能会失败。



控制

控制摄像机

可配置摄像机、存储设备和设置菜单。

■ 如果注册的网络摄像机为SUNAPI版本，可能无法使用某些特定功能。

进入摄像机控制模式

选择主屏幕上的 <摄像机>。

选择摄像机

使用方向键即可在注册的摄像机列表中移动至所需的摄像机，然后按下 [输入] 键。
使用方向键移动到 <确定> 按钮后按下 [输入] 键。

■ 点击数字 + [CAM] 点击数字



平移/倾斜控制

在 PTZ 模式下，上下左右移动控制器的操纵杆即可控制摄像机的平移和倾斜动作。
操纵杆离中心越远，移动速度就越快。

缩放

在 PTZ 模式下，使用控制器即可控制摄像机的放大/缩小动作。

聚焦

使用控制器即可控制聚焦 Near/Far 动作。

光圈

使用控制器即可调节摄像机视频的亮度。

■ 不支持网络摄像机。

控制摄像机

按控制器的 [AF] 键即可激活摄像机自动聚焦功能。

■ 关于摄像机控制的详细信息，请参考“部件名称与功能”部分。（第 7-8 页）

预设位

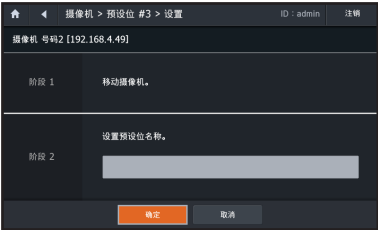
可设置一个指定的单一地点后，将摄像机移动到指定的位置。

- 可指定最多 255 个的预设位。
- 点击 [预设位] + 数字 + [预设位] 按钮，可激活对应的预设位。



设置预设

1. 选择要为其设置预设的摄像机。
2. 使用操纵杆将摄像机移至所需的点。
3. 设置预设位名称。
4. 按 <确定> 按钮进行保存。



执行预设

1. 选择摄像机。
2. 按 [预设位] 按钮。
3. 按下数字键上要执行的数字后按 [预设位] 按钮。
4. 将会执行预设。



组

您可以创建含有多个预设的群组，以便按顺序调用这些预设。

- 可指定最多 6 个组。
- 每个组包含最多 128 个预设位。

设置群组

1. 选择 <组> 单。
2. 在组列表中选择个别列表后按 <设置> 按钮，即可移动至设置页面。
3. 按 <添加> 按钮。
4. 请在预设位列表中选择要添加至组的预设位。
5. 指定速度和停留时间。
6. 按 <确定> 按钮进行保存。



执行群组功能

1. 选择 <组> 菜单。
2. 从组列表中选择一组。
3. 选择一个组号后按启动。
4. 将会执行分组功能。



巡回

您可以建立至少含有一个群组的巡视，以便按顺序执行该群组。

设置巡视

1. 选择 <巡回> 菜单。
2. 按 <添加> 按钮移动至选择组页面。
 - 最多可添加 6 个组。
3. 从组列表中选择一组。
4. 输入停留时间。
5. 选择 <确定> 菜单。



执行巡视功能

1. 选择 <巡回> 菜单。
2. 选择一个组号后按启动。
3. 将会执行巡视功能。



重置

按 <全部重置> 按钮，对全部巡航进行重置。

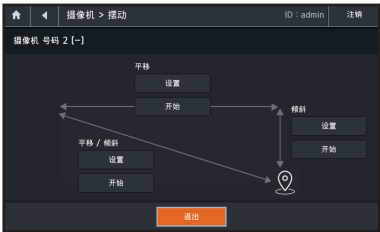
控制

摆动

您可以在个预设点之间移动摄像机以监视该途径。

摆动设置

- 1. 选择 <摆动> 菜单。
- 2. 选择 [预设位] 按钮，（在平移、平移/倾斜或倾斜中）选择要设置的摆动类型。
- 3. 设置启动预设位与结束预设位。
- 4. 设置速度及切换时间。
- 5. 按 <确定> 按钮进行保存。



执行摆动

- 1. 选择 <摆动> 菜单。
- 2. 按摆动中的 <开始> 按钮即可执行（平移、平移倾斜或倾斜）。
- 3. 将会执行摆动功能。

轨迹

通过操纵杆或摄像机按钮，您可以指示控制器录制特定时间的摄像机移动并重复移动。

设置跟踪

- 1. 选择 <轨迹> 菜单。
- 2. 在跟踪列表中选择个别项目后点击 <设置> 按钮。
- 3. 使用控制旋钮或摄像机控制按钮即可控制摄像机动作，以保存设置。
- 4. 按 <停止> 按钮即可完成设置。



执行跟踪

- 1. 选择 <轨迹> 菜单。
- 2. 选择要执行的跟踪号。
- 3. 按 <开始> 按钮。
- 4. 将会执行跟踪功能。

自动跟踪

对于支持自动跟踪功能的摄像机而言，您可以选择是否打开/关闭此功能。



警报输出

可开启/关闭强制警报输出功能。

- 如果没有恰当的用户权限，可能无法与摄像机同步。

PTZ 控制

如果想要使用控制杆来控制 PTZ，要开启此功能；否则，要关闭此功能。

控制摄像机扩展功能

如按<AUX>按钮，如摄像机支持扩展功能，可控制摄像机。

摄像机截图

按 <截图> 按钮时，摄像机截图将保存至USB记忆棒。

摄像机的详细信息

按 <信息> 按钮即可显示摄像机的详细信息。

控制储存装置

不同的设备拥有不同的功能，请参考相关设备的用户手册。

SSM

选择 SSM 即可控制已在 SSM 中注册的存储设备。



- 选择 SSM 时，摄像机将以 SSM 模式运行。



选择模式

SSM 模式

选择 <SSM>。

可控制 SSM 及已在 SSM 中注册的设备。

- 无论是否存在 GUI 控制，均可控制 SSM。
- 关于详细的 SSM 程序使用方法，请参考用户手册。

控制杆	
上/下/左/右	在云台模式下，可以控制平移和倾斜运动。 在屏幕模式下，可以更改上/下/左/右倾斜选择。 在鼠标模式下，可以移动鼠标光标。
旋转	在云台模式下，沿 WIDE 方向移动时，屏幕将拉远，沿 TELE 方向移动时，屏幕将拉近。

控制

云台控制	
[FOCUS N/F] + 	运行聚焦近处/聚焦远处动作。
[FOCUS N/F] + 	- [FOCUS N/F] +  : 聚焦近处 - [FOCUS N/F] +  : 聚焦远处
[IRIS C/O] + 	运行 IRIS 开启/IRIS 关闭操作。
[IRIS C/O] + 	- [IRIS C/O] +  : IRIS 开启 - [IRIS C/O] +  : IRIS 关闭
[PRESET]	当点击一个数字 + [PRESET] 按钮时，将激活各按钮数字对应的预设位。
[GROUP]	当点击一个数字 + [GROUP] 按钮时，将激活各按钮数字对应的群组/扫描。
[TRACE]	当点击一个数字 + [TRACE] 按钮时，将激活各按钮数字对应的模式/追踪。
[ZOOM] + 	执行拉近动作。
[ZOOM] + 	执行拉远动作。
鼠标控制	
[L(T. LOCK)]/[R(TRACK)]	在鼠标模式下使用鼠标的左/右按钮。

屏幕控制	
[MON.(CON.)]	在屏幕模式下（按照监视器排序的上一个/下一个）按数字 + [MON.(CON.)] 按钮可以更改显示器选择。
[LAYOUT(SEQ.)]	点击数字 + [LAYOUT (SEQ.)] 按钮时，将激活各按钮数字对应的布局。
[CAM]	点击数字 + [CAM] 按钮时，将激活各按钮数字对应的摄像机。
[ENTER]	点击一下将在实时查看器上显示某一个屏幕。 再点击一下将返回至原屏幕。
	在实时查看器中点击数字 + [ENTER] 按钮时，将按照所输入的数字分割屏幕画面。
LCD 抓拍按钮	捕获当前画面的视频。
LCD UI 警报关闭按钮	初始化事件。
数字 + [TILE(VM)]	移动至数字对应的区块。
更改模式	
[PTZ(MENU)]	更改云台模式。 在云台模式下点击 [PTZ (MENU)] 按钮将切换至屏幕模式。
[SHIFT] + [MENU(Mouse)]	更改鼠标模式。 在鼠标模式下点击 [SHIFT] + [MENU (Mouse)] 将切换至屏幕模式。
[SHIFT] + [Mon.(Con.)]	更改控制台模式。
[SHIFT] + [TILE(VM)]	运行 VMD 控制。

播放屏幕控制	
[SEARCH]	通过实时/搜索输出当前视频
	将停止播放视频。
	播放和暂停播放视频。
	开始/结束手动录制视频。
飞梭旋钮	按顺时针方向转动旋钮时为快进播放，按逆时针方向转动旋钮时为快退播放。
调节旋钮	执行帧度精确搜索。
0 ~ 9	数字输入按钮。
[ESC(SETUP)]	初始化输入数字。 ■ 重置功能仅在 SSM 模式下可用。

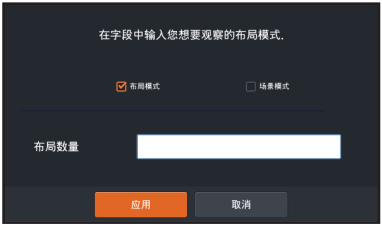
GUI 控制模式

1. 按 [SHIFT], [RECORDER/SSM]。
2. 选择 <控制台>, <VM>。
如果您选择了控制台或 VM 模式，则可以启用可配置的子功能。
 - 设备 ID: 控制 SSM 时将禁用
 - 监视器 ID: 输入数字 + [MON.CON.] 键。
 - 图块 ID: 请输入数字 + [TILE/VM] 键。
3. 针对要使用的设备选择 <屏幕/PTZ> 或 <鼠标> 模式。



更改布局

1. 按 <更改布局> 按钮。
 - 控制 SSM 时，将禁用屏幕模式。
2. 输入要更改的布局号。
3. 按 <应用> 按钮，即可按照配置内容更改布局。



控制

正在录制

开始或停止录制。

搜索

显示播放视频。

屏幕截图

保存截图。

- 图像将被保存到安装有 SSM 的电脑中。

警报关闭

关闭事件警报。



DVR

连接至 DVR 即可进行控制。

1. 选择 <DVR>。
将启用可配置的子功能。
 - 在 SRD 协议中，根据已连接的 DVR，将仅在屏幕上显示可以设置的菜单。
 - 设备 ID: 按下 DVR ID。
 - 监视器 ID: 控制 DVR 时将禁用
 - 图块 ID: 按下数字 + [TILE/VM] 按键。
2. 针对要使用的设备选择 <屏幕> 或 <PTZ> 模式。



更改布局

1. 按下 <更改布局> 按钮。
2. 输入要更改的布局编号。
3. 选择 <应用> 按钮，布局将随即根据配置更改。

录制

开始或停止录制。



搜索

显示播放视频。

关闭警报

关闭事件警报。

暂停

暂停播放视频。

声音

调整播放视频的音量。

附录

规格

项目	说明
通信系统	SSM RJ-45(Ethernet) RS-485 / 422
控制的装置数	最多 255 个
兼容性	网络/模拟摄像机、SSM、DVR
协议 (网络摄像机)	SUNAPI
协议 (模拟摄像机)	Samsung-T, Samsung-E, PELCO-D, PELCO-P, Panasonic, Honeywell, ELMO, Vicon, GE, AD, Bosch
协议 (DVR)	SRD
多语言支持	英语、西班牙语、法语、意大利语、德语、波兰语、土耳其语、俄语、韩语、中文、日语
LCD 显示器	5 英寸 TFT LCD + 触摸 LCD
USB 端口	备份 / 恢复, 软件更新
操纵杆	PTZ 控制 (3 轴扭曲缩放)
慢进梭	SSM、DVR 播放控制
电源	DC 12V, 最大 6.4W
工作温度	0° C ~ 40° C
工作湿度	20%~85%
尺寸	459.1 (宽) x 59.1 (高) x 177.9 (深) 毫米
重量	1.5 kg (不包括适配器)

问题与解答

问题	措施
无法与控制器进行通信。	• 检查 RS-485 通信线路是否已正常连接。 • 检查 SPC-7000 与 PC 之间的线缆连接。 • 确认网络控制器的 IP 地址是否正确。
无法正确识别 USB 存储器。	• 检查 USB 存储器是否正常工作。

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- UNDER THE ZLIB : tinymd 2.6.2
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Version 2.1, February 1999

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