ODM for you. Not only hardware, but also software

S180 / S220

Intelligent Digital Signage + Surveillance + Kiosk
All in One Android Panel PC 18.5"/ 21.5"

The S180 / S220 is Android 5.1.1 Panel PC with 18.5"/ 21.5" LCD support Surveillance+Digital Signage+Touch Screen Solution . With its 1366x768 HD/ 1920 x 1080 FHD resolution LCD and supports 10-point projected capacitive multi-touch function, S180/ S220 offers the user powerful interactive service for many different application. S180/ S220 supports VESA mount built-in, user can put it on any place that he needs. Also, integrated Wi-Fi and LAN (RJ45) for connection to the Internet.
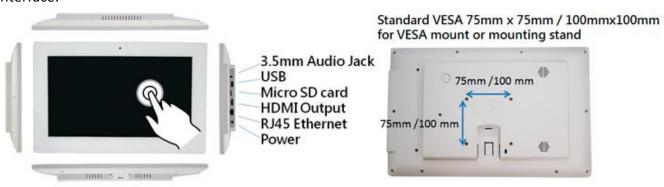
Built-in content Edit Tool, easy to manage the media content and RTSP Stream from IP camera. S180/ S220 can not only use for Surveillance, but also the Digital Signage…

Suitable for retail, restaurant, hotel, hospital, shopping mall, store, bank or school…

Furthermore, S180/ S220 support Dual-Screen: Build in HDMI output. This dual-screen display function is based on Android platform, which can display in tablet and extend to another one display screen by HDMI output.
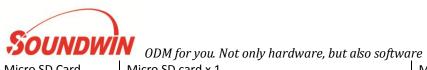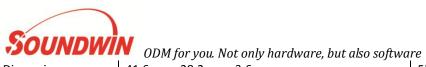

Interface:

Product Feature

- HDMI Output support Dual Display Function
- Access to all available Android applications
- Quad-Core ARM Cortex-A17CPU 1.8G Hz equipped
- H.265/HEVC Video Decode
- Internet video Streaming: UDP multicast, RTSP, HLS streaming
- System Upgrading by OTA Network
- Support User assign the APK for execution right after the system starts up
- Supported rooted Android system
- ADB by TCP/IP support for 3rd develop middleware
- Support 10-point projected capacitive multi-touch
- VESA mount built-in with 75mm x 75mm (S180) / 100mm x 100 mm (S220)
- NFC support (optional)

Product Specification		
Model Number	S180	S220
Operation System	Android 5.1.1	Android 5.1.1
Hardware specification		
LCD size	18.5"	21.5"
CPU (SoC)	Quad-Core ARM Cortex-A17 1.8GHz	Quad-Core ARM Cortex-A17 1.8GHz
GPU	Mali T764	Mali T764
RAM	DDR3-2GB	DDR3-2GB
Storage	8GB eMMC (default) / 16GB eMMC (optional)	8GB eMMC (default) / 16GB eMMC (optional)
Resolution	1366 x 768 HD resolution	1920x1080 FHD resolution
Brightness	350 nits	250 nits
Touch screen	PCAP touch (10 point multi-touch)	PCAP touch (10 point multi-touch)
Language	Default: English ; Multi-Language support	Default: English ; Multi-Language support
NFC (optional)	ISO 18092 international standard (Reader/writer) EMCA-340 standard ETSI TS 102 190 standard Support: Card emulation mode P2P mode Reader/ Writer mode USIM SWP Secure Element Available Induction Distance: 3 cm	ISO 18092 international standard (Reader/writer) EMCA-340 standard ETSI TS 102 190 standard Support: Card emulation mode P2P mode Reader/ Writer mode USIM SWP Secure Element Available Induction Distance: 3 cm
RS485 (optional)	RS485 (optional)	RS485 (optional)
Network		
WiFi	802.11 b/g/n (default), 802.11ac (optional)	802.11 b/g/n (default), 802.11ac (optional)
Ethernet	Giga Ethernet 10/100/1000 Mbits	Giga Ethernet 10/100/1000 Mbits
Bluetooth	4.0 BLE	4.0 BLE
Interface		
HDMI Output	support Dual Display function	support Dual Display function
USB port	USB port x 1	USB port x 1

Micro SD Card	Micro SD card x 1	Micro SD card x 1
Ear Phone	3.5mm ear phone jack	3.5mm ear phone jack
Power Input	Power adaptor input	Power adaptor input
Network	RJ45 LAN Port x 1	RJ45 LAN Port x 1
Front Camera	2M Pixel	2M Pixel
Micro Phone	Micro phone inside	Micro phone inside
VESA Mount	VESA mount built-in with 75mm x 75mm	VESA mount built-in with 100mm x 100mm
Video Streaming		
UDP Streaming	Support multicast UDP stream decode	Support multicast UDP stream decode
RTSP Streaming	Support RTSP stream decode	Support RTSP stream decode
HLS Streaming	Support HLS stream	Support HLS stream
Media Parameter		
Video Decoder	Real-time video decoder of MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, RV, VP6/VP8, Sorenson Spark, MVC Error detection and concealment support for all video formats Output data format is YUV420 semi-planar, and YUV400(monochrome) is also supported for H.264 H.264 up to HP level 5.2 : 2160p@24fps (3840x2160) MPEG-4 up to ASP level 5 : 1080p@60fps (1920x1088) MPEG-2 up to MP : 2160p@24fps (3840x2160) MPEG-1 up to MP : 1080p@60fps (1920x1088) H.263 : 576p@60fps (720x576) Sorenson Spark : 1080p@60fps (1920x1088) VC-1 up to AP level 3 : 1080p@30fps (1920x1088) RV8/RV9/RV10 : 1080p@60fps (1920x1088) VP6/VP8 : 2160p@24fps (3840x2160) AVS : 1080p@60fps (1920x1088) MVC : 2160p@24fps (3840x2160) For AVS, 4:4:4 sampling not supported For H.264, image cropping not supported For MPEG-4, GMC(global motion compensation) not supported For VC-1, upscaling and range mapping are supported in image post-processor For MPEG-4 SP/H.263/Sorenson spark, using a modified H.264 in-loop filter to implement deblocking filter in post-processor unit	Real-time video decoder of MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, RV, VP6/VP8, Sorenson Spark, MVC Error detection and concealment support for all video formats Output data format is YUV420 semi-planar, and YUV400(monochrome) is also supported for H.264 H.264 up to HP level 5.2 : 2160p@24fps (3840x2160) MPEG-4 up to ASP level 5 : 1080p@60fps (1920x1088) MPEG-2 up to MP : 2160p@24fps (3840x2160) MPEG-1 up to MP : 1080p@60fps (1920x1088) H.263 : 576p@60fps (720x576) Sorenson Spark : 1080p@60fps (1920x1088) VC-1 up to AP level 3 : 1080p@30fps (1920x1088) RV8/RV9/RV10 : 1080p@60fps (1920x1088) VP6/VP8 : 2160p@24fps (3840x2160) AVS : 1080p@60fps (1920x1088) MVC : 2160p@24fps (3840x2160) For AVS, 4:4:4 sampling not supported For H.264, image cropping not supported For MPEG-4, GMC(global motion compensation) not supported For VC-1, upscaling and range mapping are supported in image post-processor For MPEG-4 SP/H.263/Sorenson spark, using a modified H.264 in-loop filter to implement deblocking filter in post-processor unit
Image browser	JPEG, BMP, PNG	JPEG, BMP, PNG
Others		
Operating Temperature	0 ~ 45°C	0 ~ 45°C
Storage Temperature	-20°C ~ 50°C	-20°C ~ 50°C
Humidity environment	5% ~ 90% (No condensation)	5% ~ 90% (No condensation)
Power Supply (AC Adapter)	100 ~ 240 V AC, 50/60 Hz, DC output: 12V/ 2.5A	100 ~ 240 V AC, 50/60 Hz, DC output: 12V/ 2.5A

Dimension	41.6 cm x 28.2 cm x 3.6 cm	53.9 cm x 33.2 cm x 3.8 cm
Accessories	AC Adapter / Brown BOX	AC Adapter / Brown BOX