



SPD970

3-Megapixel Speed Dome Network Camera

1/2.8" Lumii sensor, H.264, triple streaming, 180X, ICR day/night, WDR, 3DNR, PoE+, microSDXC/SDHC card slot, IP67, IK10

The SPD970 is a professional 3-megapixel speed dome network camera designed for detailed surveillance in ultra-high definition requiring accurate pan, tilt, and zoom capabilities. A true day/night camera, the SPD970 features improved sensitivity backed by proprietary Lumii™ Technology and 3DNR to provide unprecedented low light image clarity under the cover of darkness. With up to powerful 180X zoom capability, the camera guarantees broad coverage, making itself a perfect solution for monitoring wide area and seeing distant objects. The sturdy design fittingly protects the camera against some extreme vandal and weather conditions.



Ultra Clear Images with 3MP Sensor

The camera is equipped with high-sensitivity 3MP progressive scan CMOS sensor, delivering images in ultra high definition up to 2048 x 1536 at 15 frames per second. The powerful 18X optical zoom and 10X digital zoom ensure distant objects can be detected in fine details.



PoE+ Facilitates Easy Installation

With support for Power over Ethernet plus reduces cost and adds flexibility to the camera installation. A single cable connection is needed to view, power, and control the camera. Installation and maintenance costs are reduced since there is no need for separate cables.



True Day/Night with Mechanical ICR

Featuring IR Cut Filter Removable (ICR) function, the camera is perfect for capturing truer color images at day time by filtering out IR. At night, IR is allowed for the camera working in B/W mode and being more sensitive to IR, thereby capturing clearer monochrome images.



Built for Harsh Outdoor Environment

Designed for deployment in challenging environments, the camera is compliant with IP67 and IK10 standards to withstand water, dust, and impacts. The built-in heater allows the camera operating in even the most extreme weather conditions for as low as -40°C.

Specifications

Video	
Sensor Type	1/2.8" image sensor (CMOS)
Active Pixels	2304 x 1536 (HxV)
Compression	H.264 / MJPEG
Streaming	Triple simultaneous streams with multiple video profile
Resolution	QXGA(2048x1536), 1080P, 1280x960, 720P, SVGA(800x600), VGA(640x480), 640x360, QVGA(320x240), 320x180
Max. Frame Rate	3MP 4:3 (2048x1536) at 15 fps; 2MP 16:9 (1920x1080) at 30 fps (NTSC) and 25 fps (PAL)
Day/Night	Mechanical (ICR) D/N Control
Day/Night Mode	Auto/BW/Color
Shutter Time	1/10000s to 1/7.5s Selectable (60Hz) ; 1/10000s to 1/6.25s Selectable (50Hz)
Minimum Illumination	Color: 0.13 lux @10IRE, 0.65 lux @ 50 IRE B/W: 0.05 lux @10IRE, 0.25 lux @ 50 IRE (shutter speed: 1/15 sec)
Bit Rate Control	CBR/VBR
Lens	
Type	Built-in; Varifocal
Focal Length	f=4.7~84.6mm, F1.6~2.8
Focus / Zoom	Autofocus, motorized / Remote
Zoom Limit	Up to 180X zoom (optical 18X, digital 10X)
View Angle (FOV)	H: 58°(Wide)~5°(Tele)/V:44°(Wide)~3.05°(Tele)@3MP; H: 56°(Wide)~4.05°(Tele)/V:32°(Wide)~2.05°(Tele)@Full HD
IRIS Control	Auto
P/T Operation	
Pan Range	360° continuous
Tilt Range	0°~92°
Manual Pan Speed	0.1~120°/s, 0.1°/s: max dig. optical zoom
Manual Tilt Speed	0.1~ 90°/s, 0.1°/s: max dig. optical zoom
Preset Speed	Pan: 430°/s, Tilt: 200°/s
Proportional P/T	Yes
Programmable Presets	128
Auto Patrol Group	4
Stop Time	Configurable Dwell time
PTZ Functionalities	Proportional PTZ, Auto Pan, Auto Patrol
Audio	
Audio Communication	One-way audio
Compression	G711-Alaw, G711-Ulaw, PCM, 8kHz
Audio In/Out	External microphone
Image Enhancement	
Image Settings	AES, AWB, AGC Exposure Mode: AES / ALC / Flickerless / Manual; White Balance: Auto / Manual; Backlight Compensation; Configurable Brightness, Contrast, Hue, Saturation, and Sharpness; Gamma Correction
WDR	Enhanced Digital WDR
DNR	3DNR
Privacy Zone	Yes, up to 8 privacy zones
Image Orientation	Mirror, Flip
Frequency Control	NTSC (60Hz) / PAL (50Hz)
Date & Time Stamp	Yes
Intelligent Video & Event Management	
Motion Detection	3-level sensitivity
Ethernet Detection	Network loss detection
Others	Optimized i-frame (GOP) settings
Events	Motion detection, Ethernet detection, external alarm
Event Actions	Event snapshot to remote FTP storage/ email recipients, Edge recording to SD card, HTTP event query, HTTP event client pulling, External output activation, Patrol/Preset activation
Store Category	Event snapshot, Edge recording, Manual Snapshot
Local Storage	
Memory Card Slot	microSDHC/SDXC; 1 x 16GB, Class 10 microSDHC card included (the SD card is not covered by the warranty service)

Memory Card Overwrite	Yes
Network	
Protocol	ARP, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, NTP, RTSP/RTCP/RTP, QoS, SMTP, SNMP, TCP, UDP, UPnP, IEEE802.1X, IPv6
Ethernet	1 x 10/100 base-T Ethernet connection for LAN/WAN, RJ45
PoE	PoE+ (IEEE 802.3at)
ONVIF	Yes
Browser	Internet Explorer, Chrome, Firefox, Safari
Security	Multiple user access levels with password protection, IP address filtering; IEEE 802.1X network access control, HTTPS encryption, and digest authentication
I/O & Controls	
Power	2-pin Terminal Block / Male RJ-45
Alarm In/Out	Terminal Block 6 in/1 out
Network	Male RJ-45
Audio In/Out	Terminal Block 1 in
System Reboot	Reset x 1, 2-pin Terminal Block
Factory Default	Default x 1, 2-pin Terminal Block
Power	
Power Requirement	AC24V ± 10%/PoE+
Power Consumption (Max.)	55W (Heater ON), 20W (Heater OFF)
Mechanical	
Dimensions(ΦxH)	ø217mm X 324mm (8.54"X 12.75")
Weight	3800g (8.14lb)
Protection	IP67, IK10
Battery Backed-up Real-time Clock	Internal RTC
Operating Temperature	PoE+: -10°C ~ 50°C (14°F ~ 122°F) AC24V: -40°C ~ 50°C (-40°F ~ 122°F)
Operating Humidity	10~ 90% RH
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Regulatory	
Approvals	CE, FCC, RoHS
Ordering Information	
Model No.	NTSC: SPD970-N2-US-MES; PAL: SPD970-P2-EU-MES Pendent Mount: SAD702, SAD714 Wall Mount: SAD703, SAD713 Parapet Wall Mount: SAD706 Corner Mount: SAD707 Pole Mount: SAD708 Pipe Extension Bracket: SAD709 Sun Shield: SAD710
Accessories	

Dimensions

