



next generation led

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## SPES 2

New standard for security equipment

### Properties

- Real time video surveillance over smart devices
- Full HD (1920x1080p) video quality
- Adaptive area LED lighting
- Cost and energy savings achieved through the wireless network
- LED lighting (95lm/W)
- Certification: UL, FCC, ICT, RCM
- Wireless video data transmission
- Real time video surveillance over smart devices
- Constant Current driver
- Mount Hole: Ø60.5mm pipe applied
- Warranty : 5 years

### Application

Industrial facility, shopping mall, school zone, parking lot, hospital, cultural, driveway, walkway, major crime area.



IP 65

IT Con-  
verged

Wireless

IP Camera

### Specifications

<b>SPES 2</b>	
Power	100 W (LED: 80W, AP/CAM: 20W)
Luminaire flux	7600 Lm
Power factor (Pf)	>=0.9 at Max. Load
LED type	SAMSUNG
Input voltage	AC100-240 V / AC 100~277 V
Input current	Max 1.25A (@100Vac) AP/CAM - Max. 0.43 (@115Vac Typical load)
Surge protection	Line-Line 20KV, Line-FG 20KV
Color rendering index	Ra >80
Color temperature	5000 K
Temperature in use	-30°C ~ 60°C
Light distribution	Adaptive
Dimensions	674,5/403,5/212,5 mm
Weight	13 kg
Control System	Sensor (Motion/daylight)

Updated: August 2017



## Specifications IP Camera

<b>SPES 2</b>	
Image sensor	1/2.8" Sony CMOS Sensor
Resolution	1920 x 1080p
Lens	Optical 5x Mega Pixel Zoom Lens
Min illumination	Color : 0.7 lux (F 1.2 30IRE) - TBD B/W : 0.08 lux(F 1.2, Slow Shutter ON, 30IRE)
Image Compression	H.264 - Main Profile MJPEG - Image quality : 5 steps (Lowest, low, medium, high, highest)
Input Power	PoE Power Supply 802.3af Class 2, 48V@100mA
Protocol	IPv4/6 HTTP, HTTPSD, SMTPO, UPnP, DNS Dynamic DNS, NTP, RSTP, RTP, TCP,UDP,IGMP,RTCP,ICMP,DHCP,ARP
WEB Browser	Internet Explorer 7.0 or Above, Firefox, Chrome, PDA/Smart Phone
Security	Password protection, HTTPS, IP Addressing >Filtering
PTR	Pan : +/- 30° Tilt :10° ~ +/- 50° Rotaton : +/-45°
FOV	Vertical : wide 37.4° / Tele 7.94° Horizontal : wide 49.2° : Tele 10.52° Diagonal : wide 60.26° / Tele 13.08°

## Specifications WIFI Access Point

<b>SPES 2</b>	
Frequency Range	IEEE802.11 b/g/n: 2.412Ghz ~ 2.472Ghz
IEEE802.11 a/n:	5.150~5.350Ghz, 5.470~5.725Ghz, 5.275~5.875Ghz
Radio Transmission Output	18dBm@2.4Ghz, 17dBm(5Ghz)
Receiving Sensitivity	-95dBm@MCS0
Transfer standard	IEEE802.11 a/b/g/n, ad-hoc
Transmission Speed	3T3R Maximum 450Mbps @HT40
Security/QoS	802.1xAuthenticator (EAP-TLS, EAP-TTLS, PEAP), MAC based wireless connection, 64/128bit WEP, 802.11i 802.11eWMM/ Qos, Cos/maximum 8 virtual SSID 802.1q VLAN/Wireless VLAN for each SSID/MAC Filtering
LAN / WAN	LAN (10/100Mbps), WAN(1Gbps)
Consumption of electrical power	Maximum 9W

### SPES 2

Up to 10 SPES 2 can be connected through one operating AP. Max. 20 cameras can be operated.

### NETWORK

FTTx network provides stable quality network service which is 100times faster than existing ADSL.

- FTTH : Fiber To The Home
- FTTO : Fiber To The Office
- FTTC : Fiber To The Curb
- FTTZ : Fiber To The Zone

### OPERATION

You can check the real time view of SPES 2 camera by using internet connection at the operation center or smart APP (Android or IOS) at hand.

Wireless Link Speed is supported up to 450Mbps by advanced MIMO technology

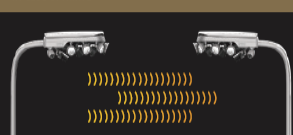
Maximum Link Coverage

Each hop at 70 ~ 100meters @\* LOS

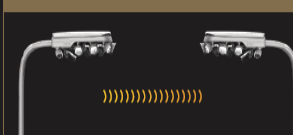
With ad-hoc technology it can be expanded up to 300 ~ 600meters

\* LOS(Line of Sight) : Refers to the distance in a straight line without obstacles.

In case of MIMO



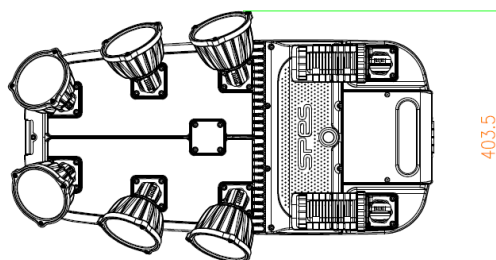
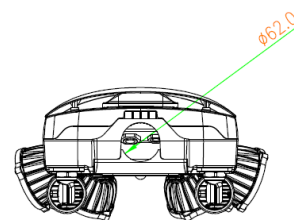
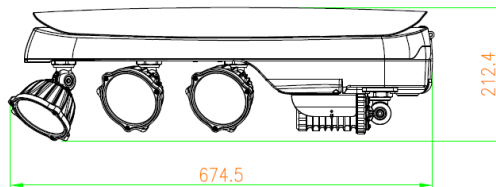
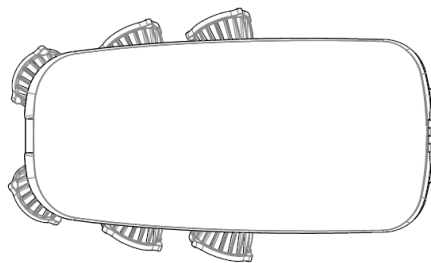
In case of non-MIMO



# Specifications Network Video Recorder



<b>NVR</b>	
NVR Type	Standard/Professional
Channel	4CH (*standard only) 8CH 16CH (*professional only)
Storage Capacity	2TB (*standard only) 4TB (*standard only) 6TB (*standard only) 10TB (*professional only) 15TB (*professional only)
Power Cord Type	TBD





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## SPES 2

REFERENCE	WATT	LUMEN	COLOUR	ANGLE	WIFI
190-0054	80 W	7600 Lm	5000 K	Adaptive	Yes
190-0055	RECORDER 4TB NVR FOR SPES 2				

# New era of security lighting - SPES™

## Ultimate solution for security

SPES 2, the IT converged LED lighting, suits a wide variety of public applications, such as schools, industrial facilities, corridors, parking lots and private estates, where lighting and security are necessary at all times.

**Combine Safety and Security with high efficiency LED lighting via real time dual data transmission!**

Automates a level of real-time security for any public space. SPES 2 applied with AAL, latest LED lighting technology, mounted with two High resolution IP Camera allowing to check right and left Image at the same time and can be transferred via wireless. The Video can be easily monitored by various system and Smartphone anytime, anywhere!

\* AAL : Adaptive Area Lighting

