

# Specifications . . . . . **Spes 70W**

Product Specifications

## LED IT Converged Lighting



**SPES<sup>®</sup>**  
70W

# Handle with Care

These warnings and cautions are intended to prevent injury to you and others, and to prevent any potential damage to your product.

Be sure to read and understand all of these instructions before using the product.

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## WARNING

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- This product must be installed by a professional electrician with the relevant standard of electrical code and the appropriate installation guide provide in this manual book.
- Any modification or dismantle of this product may cause serious injury.
- Any usage of input power (except rating voltage) may cause serious damage.



- Please check the power as OFF before any construction or installation.
- Wire handling must be insulated by the [technical standards on electrical equipment] standards.
- Installation in rain should be avoided.

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## CAUTION

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- Any usage interfering LED heat dissipation may cause damage to the product.
- Do not pull strongly during wire cable handling which may disconnection.
- This product specification cannot be used for any other purposes other than explained in the manual.  
The seller or manufacturer will not be responsible for damages or accidents during the use of other purposes.



- Use proper connection socket during wire handling, and be careful for flooding issues.
- To prevent damage due to static electricity, please touch with metals around to remove any statics. Not removing statics may cause damage to the product.
- While wire handling, be careful not to disconnect wires and cables.
- Ground socket must grounded by the instructions of electrical equipment standards.
- The use of non-specified voltage will cause damage or fire to the product.
- Avoid using damp places.
- Proper ventilation is required.
- Excessive installation or dismantle may cause damage to the product.
- To prevent damage, seek appropriate protection for circuit breakers, fuses, switched, etc.
- Use in places where vibration occurs may cause damage to the product.
- Do not touch the luminaire emitting unit with contaminated substance.
- In any case, do not keep products in contaminated places.



## Product Summary

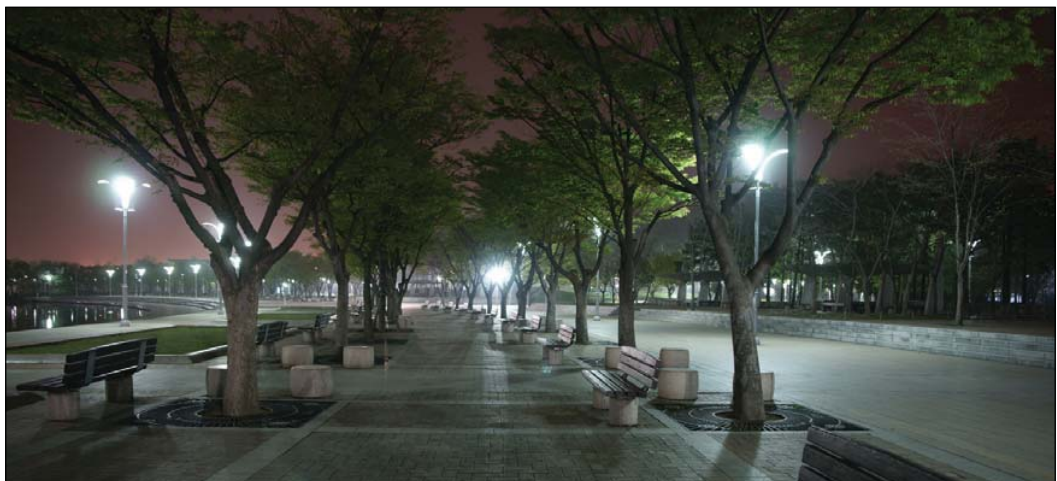
Item	Specifications
Product Type	IT Converged LED Security Lighting
Model Name	Spes-70W
Installation Type	Pole to Arm / Ø60.5 Pipe Applied

## Product Feature

When Spes is installed, the current method of security lighting and CCTV as well as features of outdoor AP can be conducted simultaneously, maximizing cost reduction in terms of maintenance. In addition, the light weight of 2.5Kg makes the installation process simple and easy. Spes, a product that combines LED security lighting, IP Camera and Wi-Fi is a true IT convergence equipment among the existing lighting equipment.

## Product Applications

- Walkway, Driveway, Industrial Facility, School Zone, Cultural, Hospital, Shopping Mall, Parking Lot, Estates, Major crime area



The information in this document is subject to change without notice

## Descriptions

### Electrical Specification

Item	Unit	Description
Power Consumption	W	<b>70W</b>
Input Voltage	V <sub>AC</sub>	100 ~ 277 V <sub>AC</sub>
Input Current	A	1.3A Max
Input Frequency	Hz	50 / 60Hz
Power Factor		≥ 0.9 at 50 ~ 100% load
Harmonic Distortion	%	Max. 30%
Leakage Current	mA	< 0.5mA @ 230V <sub>AC</sub>
Insulation Resistance	MΩ	I/P-O/P, I/P-FG, O/P-FG:100MΩ @ 500Vdc
Withstanding Voltage	V	I/P-O/P 3KV <sub>AC</sub> , I/P-FG:1.5KV <sub>AC</sub> , O/P-FG:0.5KV <sub>AC</sub>
Surge	kV	Line-Line 1kV, Line-FG 2kV

### Optic Specification

Item	Unit	Description
Power Consumption	W	<b>70W</b>
Luminous Flux	lm	> 6,650 lm
Luminous Efficacy	lm/W	> 95 lm/W
Color Temperature	K	5000K
Color Rendering	Ra	> 80 Ra
LED Chip Maker		0.2W / SAMSUNG
Optical Distribution		Type V



### Power Supply Unit

Item	Description
Power Consumption	<b>70W</b>
Input Voltage Range (V <sub>AC</sub> )	100 ~ 277 V <sub>AC</sub>
Output Volatage (V <sub>DC</sub> )	+24 V <sub>DC</sub> / 3.0A
Type	Constant Current (CC)
Certificate	UL, KC, CE, CB
Manufacturer	KMW Inc.

### Mechanical Specification

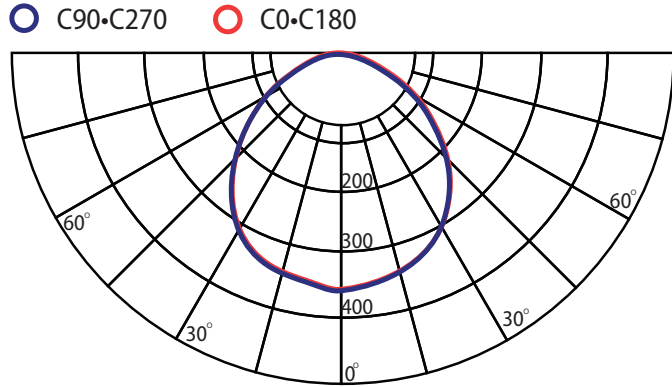
Item	Unit	Description
Size [L x W x T]	inch	24.7"(627.0mm) X 4.1"(104.8mm) X 3.3"(84.7mm)
Weight	lb	5.5 lb (2.5kg)
Material	Globe	Poly Carbonate
	Base	Cast Aluminum
IP		IP66
Life Time (@77°F)	Hours	50,000
Operating Temperature	°F	-50°F ~ 122°F (-10°C ~ 50°C)
Storage Temperature	°F	-50°F ~ 158°F (-10°C ~ 70°C)
Surface Temperature	°F	Max 131°F(55°C) (@77°F(25°C))

### Lumiance

Item	Unit	Description
Lighting Index Mark	-	<b>S6 - H - DI</b>
Min. Surface Luminance	lx	4 lx
Avg. Surface Luminance	lx	20 lx



### Beam Profile



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## IP Camera Specifications

Item	Unit	Description
Image Sensor		1/2.8" Sony Imx-036 CMOS Sensor
Resolution		1,920 x 1,080
Lens		Optical 5X Megapixel Zoom Lens
Min, illumination		Color: 0.7 lux(F1.2, 30IRE)-TBD B/W :0.08 lux(1.2, Slow Shutter ON, 30IRE)-TBD
Image Compression		H.264 - Main Profile MJPEG - Image quality: 5 Steps(Lowest, Low, Medium, High, Highest)
Input Power		PoE Power supply. 802.3 af Class 2, 48V @ 100mA
Protocol		IPv4/6, HTTP, HTTPS, SMTP, UPnP, DNS, NTP Dynamic DNS, RTSP, 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
Operating Temp.	°F	-50°F ~ 122°F (-10°C ~ 50°C)

## Antenna Specifications

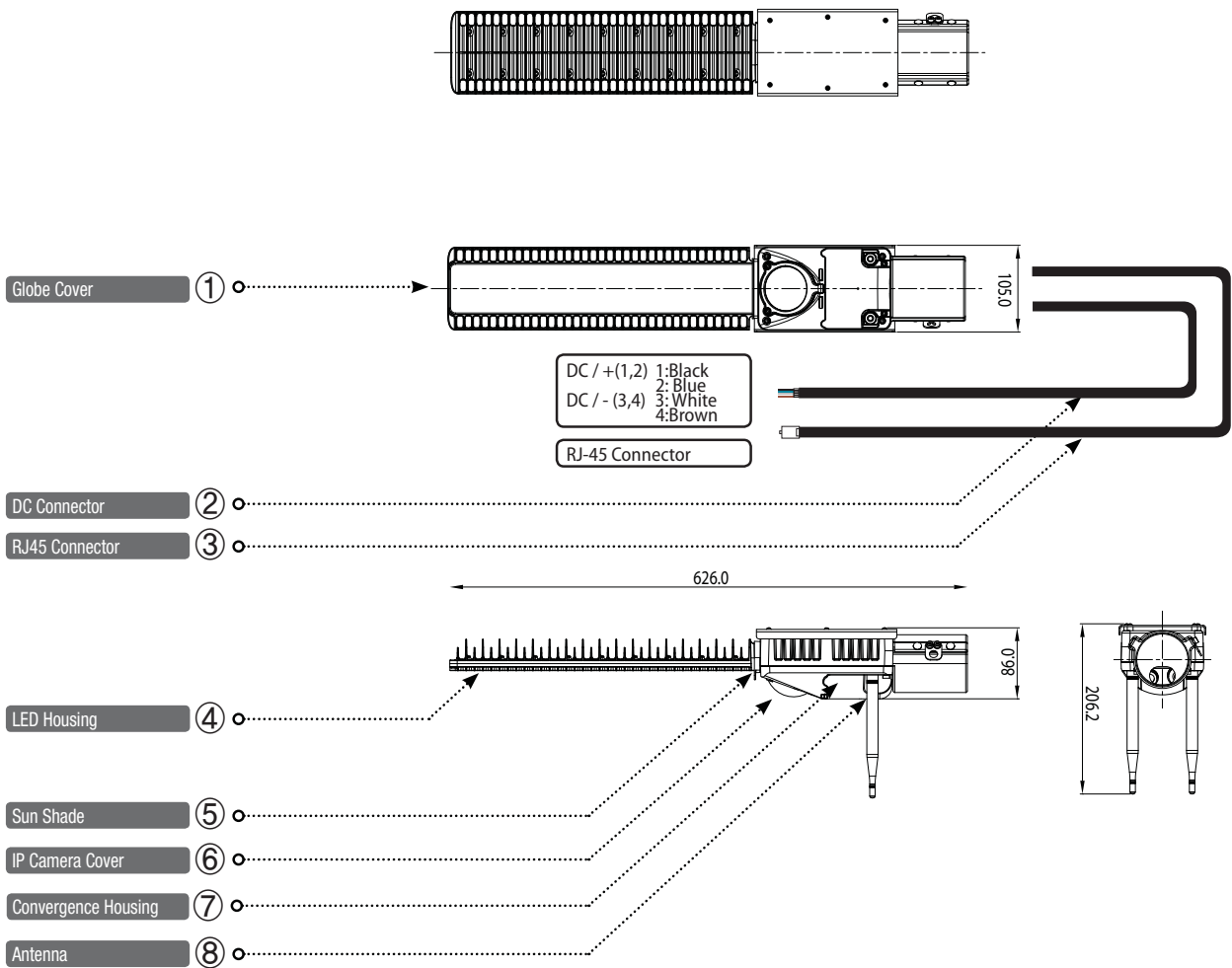
Item	Unit	Description
Frequency band	GHz	2.4 ~2.5 GHz
Type		Water Proof Dipole antenna
Gain	dBi	4 dBi
VSWR		Under 2.0
Connector		SMA Male

## WiFi Access Point Specifications

Item	Unit	Description
Frequency band	GHz	2.4 ~ 2.484 GHz
RF Output Power	dBm	18dBm (Max)
Input Power		PoE Power supply. 802.3af Class 2, 48V @ 150mA
Interface		LAN 1 port: Fast Ethernet 10/100Mb
Transfer Standard		IEEE 802.11 b/g/n (Only 20 MHz bandwidth)
Security		WEP Encryption 64/12bit, WPA Personal (WPA-PSK using TKIP or AES)
		802.1x Authenticator, Hide SSID in beacons
		Multiple SSID with 802.1q VLAN tagging (up to 4 SSID) in AP Mode, MAC Fiter, WLAN L2 isolation,
		Wireless STA (client), connected List, Firewall (DoS attack, URL Filter)
SNMP		V1, V2c, MIB I, MIB II (RFC 1213) and Private MIB
Operation Mode		Access Point / WDS / Universal Repeater
QoS		WMM
LAN / WAN		DHCP Server, DHCP Client / Static IP
Operating Temp.	°F	-50°F ~ 122°F (-10°C ~ 50°C)



Structure & Drawing





**Details**

No	Item	Material	Finish	Manufacturer	Remarks
①	Globe Cover	PC	-	KMW	-
②	DC Connector	PA(+GF)	-	-	-
③	RJ45 Connector	PA(+GF)	-	-	-
④	LED Housing	Aluminum	Powder Coating	KMW	-
⑤	Sun Shade	Aluminum	Powder Coating	KMW	-
⑥	IP Camera Cover	PC	-	KMW	-
⑦	Convergence Housing	Aluminum	Powder Coating	KMW	-
⑧	Antenna	-	-	-	-

**Packing Spec.**

Item	Unit	Specifications
Size (W x L x H)	inch	26.9"(685.0mm) X 61.8"(157.0mm) X 5.4"(137.0mm)
Net Weight	lb	5.9 lb (2.7Kg)
Total Weight	lb	7.0 lb (3.2Kg)

#### FCC INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF Exposure: A distance of 20 cm shall be maintained between the antenna and users, and the transmitter module may not be co-located with any other transmitter or antenna.