SNC-HM662

Network Mini Dome 5MP Camera – H Series

SONY

360-degree Hemispheric-view Camera with a 5-megapixel CMOS Sensor

- Maximum resolution of 2560 x 1920 pixels with a 5-megapixel CMOS sensor
- 360-degree hemispheric imaging technology with a panomorph lens from ImmerVision
- Advanced de-warping technology with video management software (VMS) for immersive monitoring
- Solid PTZ for easy and rapid-response camera manipulation in every hemispheric image
- A variety of view modes including 360-degree hemispheric view, 180-degree panoramic view, and multiple screen views
- Edge Storage for onboard recording with microSD/SDHC cards
- IK10-rated vandal-resistant and IP66-rated water-resistant/ dust-tight features



KEY FEATURES

- Hemispheric imaging technology with a panomorph lens from ImmerVision; this captures 360 degrees of real-time video, outperforming any conventional fisheye lenses with superb image quality and greater coverage
- Advanced dewarping technology for immersive monitoring to efficiently correct for the distortion of a hemispheric image and newly produce rectangular images with video management software (VMS); this maintains higher video quality than produced at the camera level and it is achieved without incurring the image degradation typically caused by camera processing limitations during the dewarping process
- Solid PTZ to navigate the camera's visible area in every hemispheric image by its digital pan, tilt, and zoom functionalities for easy and rapid-response manipulation
- A variety of multiple view modes capable of 360-degree immersive navigation, including the camera's original 360-degree hemispheric view, a 180-degree panoramic view and multiple simultaneous views all produced from the same hemispheric image

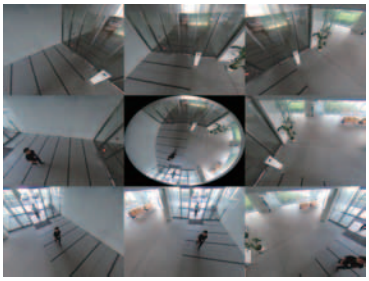


This 360-degree hemispheric view is produced with a much larger footprint on the image sensor using more pixels than the circular-shaped footprint with conventional fisheye lenses; there is better resolution uniformity over the entire image than with fisheye lenses, achieved by applying more pixels on the periphery of the image.



A 180-degree panoramic view produced from the hemispheric image.

(Actual images)



A sample of multiple view* settings displaying one 360-degree hemispheric image at the center of the display, surrounded by the other eight regional images.

*Each VMS manufacturer offers different view settings.

- Edge Storage function to record video and audio data with a microSD/SDHC card attached to the camera
- IK10-rated vandal-resistant feature to protect the camera from destructive behaviors
- IP66-rated water-resistant and dust-tight feature for outdoor surveillance and for indoor locations where water ingress may pose an issue
- Day/Night function to switch to Day or Night mode depending on the light level
- VBR (variable bitrate) or CBR (constant bitrate) compression mode selectable to correspond with various network conditions and G711/AAC (64 kHz to 128 kHz) audio codecs for high-quality recording
- Fully compatible dewarping with all major VMS platforms and other solutions that are certified ImmerVision Enables
- ONVIF™ (Open Network Video Interface Forum) Profile S conformance firmware that ensures greater interoperability and more flexibility in building multiple-vendor systems
- Built-in microphone
- Easy initial network settings by supplied SNC Easy IP Setup Guide application

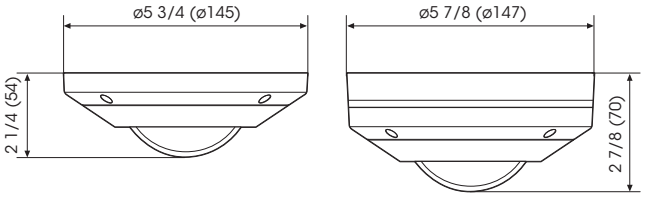
IPELA™

SPECIFICATIONS

	SNC-HM662
Camera	
Image Sensor	1/2.5-type progressive scan CMOS sensor
Number of Total Pixels	Approx. 5 Megapixels
Minimum Illumination (50 IRE)	Color: 0.7 lx (F2.0, AGC ON, 1/30 s, 10 fps)
	B/W: 0.3 lx (F2.0, AGC ON, 1/30 s, 10 fps)
Minimum Illumination (30 IRE)	Color: 0.4 lx (F2.0, AGC ON, 1/30 s, 10 fps)
	B/W: 0.1 lx (F2.0, AGC ON, 1/30 s, 10 fps)
Dynamic Range	More than 60 dB
Gain	Auto
Shutter Speed	1/5 s to 1/32,000 s
Exposure Control	Exposure compensation, AGC, Shutter speed
White Balance	ATW, Manual
Lens	Fixed lens
Zoom Ratio	Digital 12x
Horizontal Viewing Angle	182°
Vertical Viewing Angle	182°
Focal Length	f = 0.98 mm to 1.12 mm
F-Number	F2.0
Minimum Object Distance	500 mm
Number of Preset Positions	20
Number of Tour Programs	20
Camera Features	
Day/Night	Yes
360° Hemispheric/ 180° Panoramic View Modes	Yes
Number of View Modes	11
Auto-rotation Mode	Yes
e-Flip	Yes
Wide-D	Yes
Tone Correction	Yes
Privacy Masking (number)	5
Privacy Masking (shape)	Quadrangle formed by any four corner points
Privacy Masking (color/effect)	Black
Edge Storage	Yes
Vandal Resistant	IK10
Ingress Protection	IP66
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai
Video	
Resolution	2560 x 1920, 2048 x 1536, 1600 x 1200, 800 x 600, 640 x 480 (Hemispheric mode: H.264, JPEG) 1920 x 1080, 1600 x 904, 1360 x 768, 1280 x 720, 640 x 360 (1080p mode: H.264, JPEG)
Compression Format	H.264 (High/Main/Baseline Profile), JPEG
Maximum Frame Rate	H.264: 10 fps (2560 x 1920)
	JPEG: 13 fps (2560 x 1920)
Bitrate Compression Mode	CBR/VBR (selectable)
Range of Bitrate Setting	20 Kbps to 16 Mbps
Image Cropping	1920 x 1080
Solid PTZ	Yes
Bandwidth Control	Yes
Multi Streaming Capability	Triple streaming
Number of Clients	10
Intelligent Video Analytics	
Intelligent Motion Detection	Yes
Tamper Alarm	Yes
Audio	
Compression Format	G.711/AAC (64 kHz to 128 kHz)
System Requirements	
Operating System	Windows® XP (32 bit) Professional Edition
	Windows Vista® (32 bit) Ultimate, Business Edition
	Windows 7 (32/64 bit) Ultimate, Professional Edition
	Windows 8 Pro (32/64 bit)
Processor	Intel Core7 2.8 GHz or higher
Memory	2 GB or more
Web Browser	Microsoft Internet Explorer® Ver. 8.0, Ver. 9.0, Ver 10.0 (32 bit)

	SNC-HM662
Network	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, SMTP, IPv6, HTTPS, SNMP (v1, v2c, v3), SSL
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE 802.1X
Interface	
Microphone Input	Built-in Microphone/External MIC-IN
Line Output	Yes
Network Port	10BASE-T/100BASE-TX (RJ-45)
Alarm Input (Sensor Input)	Yes
Alarm Output	Yes
Card Slots	microSD
Confirmed SD Card Type	microSDHC (no support for microSDXC)
General	
Power Requirements	IEEE 802.3af compliant (PoE system)
Power Consumption	6.0 W max.
Operating Temperature	-22°F to +122°F (-30°C to +50°C) (tentative)
Cold Start Temperature	-4°F to +122°F (-20°C to +50°C)
Storage Temperature	-13°F to +140°F (-25°C to +60°C)
Operating Humidity	20% to 90%
Storage Humidity	20% to 95%
Dimensions (W x H x D)	Approx. ø5 3/4 inches x 2 1/4 inches (ø145 mm x 54 mm) without a mounting plate
Weight	Approx. 1 lb 7 oz (640 g) without a mounting plate
External Material	Aluminium and polycarbonate
External Color	Black and white
Fire Retardant	UL94HB
Safety Regulations	UL2044, IEC60950-1, IEC60950-22, FCC Class B, IC Class B, EN 55022 Class B, EN55024 Class B, EN50130-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, Clause 7 of EN50130-4, AS/NZS EN55022 Class B, VCCI ClassB, Korea EMC (K00022 + K00024), Russia EAC, EN50155, EN50121-3-2, IEC61373
Supplied Accessories	Mounting plate (1)
	I/O cable (1)
	Alignment sticker for camera base (1)
	Alignment sticker for mounting plate (1)
	Screw driver (1)
	Desiccant bag (1)
	Double-sided tape (1)
	Rubber seal plug (1)
	Rubber washer (1)
	Screw (for mounting plate) (1)
	Installation manual (1)
	Warranty card (1)
	Safety regulations for network camera (1)
	CD-ROM (supplied program) (1)

DIMENSIONS



A supplied mounting plate is attached.

Unit: inches (mm)

Sony Electronics Inc.
1 Sony Drive
Park Ridge, NJ 07656
sony.com/security

©2013 Sony Electronics Inc. All rights reserved.
Reproduction in whole or in part without permission is prohibited.
Features and specifications are subject to change without notice.
Weights and measurements are approximate.
Sony, IPELA, and ONVIF are trademarks of Sony.
All other trademarks are the trademark of their respective owners.

S-IP2189-B (MK11091V1)

Printed in USA (1/14)