

# SNC-HM662

Network Mini Dome 5MP Camera - H Series

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## 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 11 view modes including 360-degree hemispheric view, 180-degree panoramic view, and 9-split-screen view
- Edge Storage for onboard recording with microSD/SDHC cards
- IK10-rated vandal-resistant and IP66-rated water-resistant/dust-tight features



### KEY FEATURES

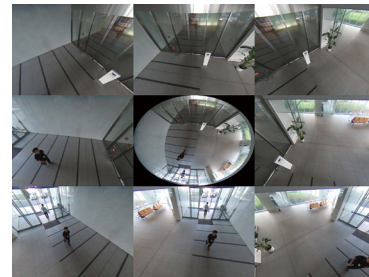
- Hemispheric imaging technology with a panomorph lens from ImmerVision; this captures 360 degrees of real-time video, outperforming by far any conventional wide angle lenses such as mirror and fisheye in image quality and adaptability
- Advanced de-warping technology for immersive monitoring to efficiently 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 de-warping 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 11 view modes including the camera's original 360-degree hemispheric view and multiple simultaneous views produced from the same hemispheric image such as a 180-degree panoramic view, and 9-split-screen view




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 by de-warping.



A 9-split-screen view with one 360-degree hemispheric image at the center of the display, surrounded by the other eight regional images.

- 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
- 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

Preliminary

Connect Your Vision

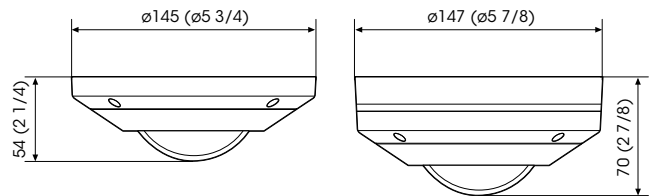
**IPELA**™

# SPECIFICATIONS

| SNC-HM662                                      |  |
|--|--|
| <b>Camera</b>                                  |  |
| 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)<br>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)<br>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   |
| <b>Camera Features</b>                         |  |
| Day/Night                                      | Yes  |
| 360° Hemispheric/<br>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                     |
| <b>Video</b>                                   |  |
| Resolution                                     | 2560 x 1920, 2048 x 1536, 1600 x 1200, 800 x 600, 640 x 480 (Fisheye mode: H.264, JPEG)<br>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)<br>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   |
| <b>Intelligent Video Analytics</b>             |  |
| Intelligent Motion Detection                   | Yes  |
| Tamper Alarm                                   | Yes  |
| <b>Audio</b>                                   |  |
| Compression Format                             | G.711/AAC (64 kHz to 128 kHz)  |
| <b>System Requirements</b>                     |  |
| Operating System                               | Windows XP (32 bit) Professional Edition<br>Windows Vista (32 bit) Ultimate, Business Edition<br>Windows 7 (32/64 bit) Ultimate, Professional Edition<br>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                   |   |
|-----------------------------|---|
| <b>Network</b>              |   |
| Protocols                   | IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, RTP, RTSP, 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   |
| <b>Interface</b>            |   |
| 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)  |
| <b>General</b>              |   |
| Power Requirements          | IEEE 802.3af compliant (PoE system)   |
| Power Consumption           | 6.0 W max.  |
| Operating Temperature       | -30°C to +50°C (-22°F to +122°F) (tentative)  |
| Cold Start Temperature      | -20°C to +50°C (-4°F to +122°F)   |
| Storage Temperature         | -25°C to +60°C (-13°F to +140°F)  |
| Operating Humidity          | 20% to 90%  |
| Storage Humidity            | 20% to 95%  |
| Dimensions (W x H x D)      | Approx. ø145 mm x 54 mm (ø5 3/4 inches x 2 1/4 inches) without a mounting plate   |
| Mass                        | Approx. 640 g (1 lb 7 oz) 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)<br>I/O cable (1)<br>Alignment sticker for camera base (1)<br>Alignment sticker for mounting plate (1)<br>Screw driver (1)<br>Desiccant bag (1)<br>Double-sided tape (1)<br>Rubber seal plug (1)<br>Rubber washer (1)<br>Screw (for mounting plate) (1)<br>Installation manual (1)<br>Warranty card (1)<br>Safety regulations for network camera (1)<br>CD-ROM (supplied program) (1) |

# DIMENSIONS



A supplied mounting plate is attached.

Unit: mm (inches)

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