



## Pick up clear sound of specified area in noisy or acoustically live environments

### Key Features

- 360-degree audio monitoring**  
 With multiple microphones, 360-degree audio monitoring from a specified direction is possible.
- Specifying a desired direction on a camera image**  
 While viewing a Panasonic 360-degree Network Camera image, audio from the desired location can be freely specified by clicking on that location.  
\* Specifying the direction is available when the image capture mode is Fisheye or Wall Panorama. When the image capture mode is Quad PTZ
- Synchronizing with the Network Disk Recorder**  
 After recording audio to a Panasonic Network Disk Recorder\*, the sound collecting direction can be specified while playing back the recorded image of the 360-degree Network Camera.  
\* Models WJ-NV300 is supported. (as of August 2014)
- Can be installed with a 360-degree Network Camera as one unit**  
 The microphone can be neatly installed in one place by integrating it with a 360-degree Network Camera.

- Vandal resistant mechanism for high reliability**

### Standard Accessories

|                               |       |                      |       |
|-------------------------------|-------|----------------------|-------|
| • Important Information ..... | 1 pc. | • CD-ROM*1 .....     | 1 pc. |
| • Installation Guide .....    | 1 pc. | • Code Label*2 ..... | 1 pc. |

\*1 The CD-ROM contains the operating instructions and different kinds of tool software programs.  
\*2 This label may be required for network management. The network administrator shall retain the code label.

The following parts are used during installation procedures.

|                    |        |                             |       |
|--------------------|--------|-----------------------------|-------|
| • Attachment ..... | 1 pc.  | • 2P power cable plug ..... | 1 pc. |
| • Adapter .....    | 2 pcs. | • Bit .....                 | 1 pc. |

### Optional Accessories

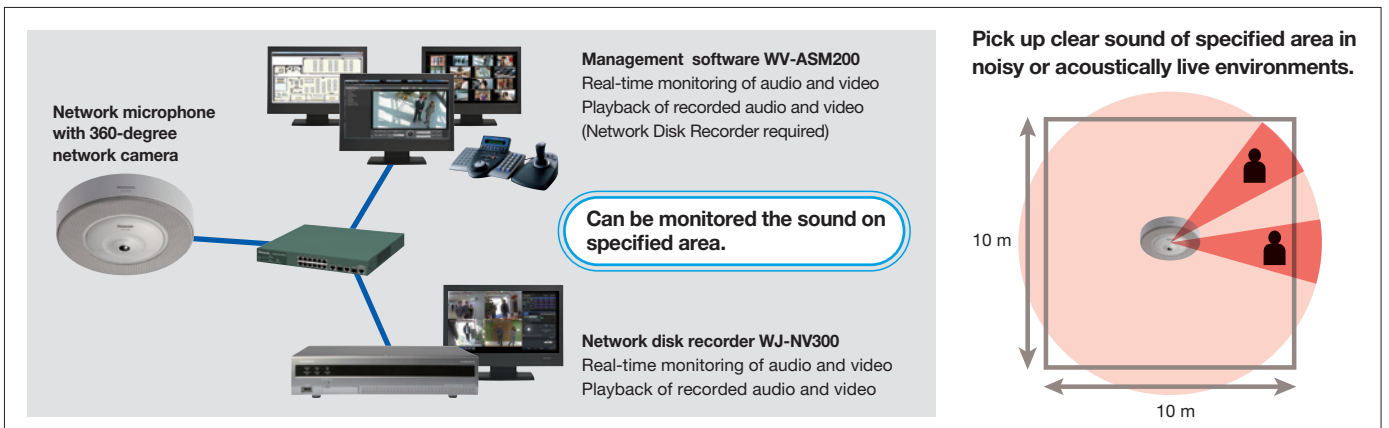
Ceiling mount bracket  
**WV-Q105A**



Ceiling pendant type  
mount bracket  
**WV-Q117A**



### System Example



# Specifications

## WV-SMR10

|                   |                                    |   |
|-------------------|------------------------------------|---|
| <b>Microphone</b> | Microphone element                 | Electret condenser microphone (16-element)  |
|                   | Sensitivity                        | -15 dBFS±3 dB (1 Pa, 1 kHz)   |
|                   | Maximum input                      | 100 dB SPL rms  |
|                   | S/N ratio                          | 66 dB or more   |
|                   | Dynamic range                      | 72 dB or more   |
|                   | Frequency band                     | Approx. 300 Hz - 7 kHz  |
|                   | Noise suppression capacity         | Approx. 18 dB (suppression capacity of sound other than the sound collecting direction) <sup>*1</sup>   |
|                   | Directional angle                  | Approx. 20° (1 kHz, half-width at half maximum) <sup>*1</sup>   |
| <b>Network</b>    | Sound collecting distance          | Approx. 6 m {19.69 feet} (audible distance in an environment where the noise volume is about 65 dB SPL)<br>The sound quality may deteriorate depending on obstacles surrounding the microphone and the direction in which the person speaking faces.  |
|                   | Network IF                         | 10Base-T / 100Base-TX, RJ-45 connector  |
|                   | Audio Compression method           | 16-channel Panasonic codec, approx. 2 Mbps  |
|                   | Supported Protocol                 | IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP<br>IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP   |
|                   | Supported OS <sup>*2</sup>         | Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®  |
|                   | Supported Browser <sup>*2</sup>    | Windows® Internet Explorer® 11.0 (32 bit), Windows® Internet Explorer® 10.0 (32 bit),<br>Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit),<br>Windows® Internet Explorer® 7.0 (32 bit)  |
|                   | No. of Simultaneous Users          | 3 (Number of sessions that can connect to microphones at the same time)<br>* Depends on network conditions. For example, when accessing the microphone using HTTPS, the number of sessions that can connect to the microphone at the same time is 2.<br>Refer to "10.4 Access the microphone using the HTTPS protocol" in the Operating Instructions for further information. |
|                   | Supported network camera           | WV-SF438 (same as WV-SMR10N3) / WV-SF448E / WV-SW458  |
|                   | Supported recorder                 | WJ-NV300 / WJ-ND400   |
|                   | Supported application              | WV-ASM200 (Ver.3.0 or later)  |
| <b>General</b>    | Safety/EMC Standard                | CE, IEC60950-1 (EN55032 ClassB, EN55024)  |
|                   | Power Source and Power Consumption | 12 V DC*: 200 mA/ 2.4 W / PoE 48 V: 60 mA/ 2.9 W (Class 1 devices)<br>* ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY (UL 1310/CSA 223) or LIMITED POWER SOURCE (IEC/EN/UL/CSA 60950-1).  |
|                   | Ambient Operating Temperature      | -10 °C to +50 °C {14 °F to 122 °F}  |
|                   | Ambient Operating Humidity         | Less than 90 % (no condensation)  |
|                   | Shock Resistance                   | Compliant with 20J (IEC60068-2-75)/IK10 (IEC 62262)   |
|                   | Dimensions                         | ø270 mm x 55 mm (H) {ø10-5/8 inches x 2-5/32 inches (H)}  |
|                   | Mass (approx.)                     | 2.3 kg {5.08 lbs}   |
|                   | Finish                             | Net: SECC punching, sail white<br>Cover: PC resin, sail white   |
|                   | Others                             | Tamper-resistant enclosure (When center cover is attached)  |

\*1 Depends on the conditions of the installation environment.

\*2 For further information about PC system requirements and precautions for when using Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, or Windows® Internet Explorer®, click "Manual" - "Open" from the supplied CD-ROM and refer to "Notes on Windows® / Internet Explorer® versions".

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### Important

- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product.  
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

- All TV pictures are simulated.
- Masses and dimensions are approximate.
- Specifications are subject to change without notice.

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