



## 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

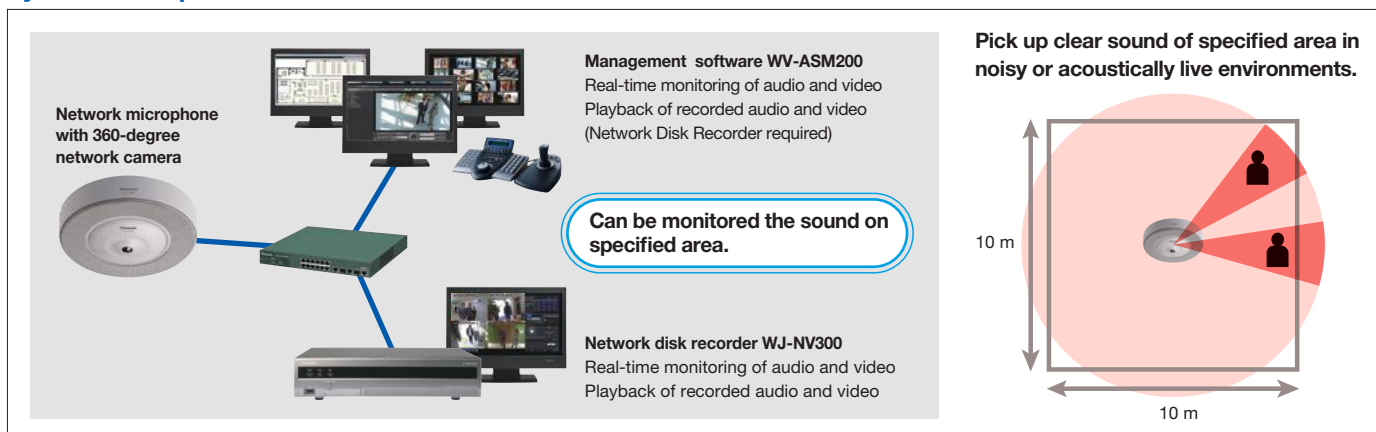
Ceiling mount bracket  
**WV-Q105A**



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>
	Sound collecting distance	Approx. 6 m {19.69 feet} (audible distance in an environment where the noise volume is about 65 dB SPL) The sound quality may deteriorate depending on obstacles surrounding the microphone and the direction in which the person speaking faces.
<b>Network</b>	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 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), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit)
	No. of Simultaneous Users	3 (Number of sessions that can connect to microphones at the same time) * 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. 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) * 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 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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