

Overview

Flexible wireless microphones system customized to your use case.



Features

- Wireless system using 1.9 GHz, composed of access point, microphone, and charging station
- The access point supports 8 channels
- Available microphone formfactors: 6" (15 cm) gooseneck, 12" (30 cm) gooseneck, omnidirectional boundary, and cardioid directional boundary
- Approximately 20 hours of continuous microphone operation time using the included Li-ion battery
- Standard network audio support for “Dante”
- Utilizes one PoE+ network cable connection avoiding wiring problems and enabling audio control via Dante
- The Web UI Setup Wizard allows for effortless configuration, microphone pairing, audio routing, and other system management

Specifications

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General Specifications

RM-WDR

Description	Wireless Microphone	
Colour	Black	
Dimensions (W x D x H)	W 89.0 mm x D 89.0 mm x H 26.0 mm (including rubber feet)	
Weight	130 g (including battery)	
Directivity	Unidirectional	
Power Requirements	Rechargeable Li-ion Battery 3.6 V 2350 mA/h	
Maximum Power Consumption	5.0 V 0.7 A	
Battery	Talk Time	Approximately 20 hours (power on)
	Standby Time	7 days
	Charge Time	Full charging: 5 hours, 80% charging: 3 hours
In Operation	Temperature	0°C - 40°C
	Humidity	20% - 85% (no condensation)
In Charging	Temperature	5°C - 40°C
	Humidity	20% - 85% (no condensation)
Storage	Temperature	-20°C - 60°C
	Humidity	10% - 90% (no condensation)
Indicators	Microphone indicator (3 colours) x 1, Battery indicator (3 colours) x 1	
Buttons	Microphone button x 1, Battery button x 1, PAIR button x 1	
Connectors	USB Type C (for battery charging) x 1, Charger I/F (4pin) x 1	
Accessories	Battery (RM-WBT) x 1, Owner's manual x 1	
Options	Replacement Battery RM-WBT	

RM-WOM

Description	Wireless Microphone	
Colour	Black	
Dimensions (W x D x H)	W 89.0 mm x D 89.0 mm x H 26.0 mm (including rubber feet)	
Weight	126 g (including battery)	
Directivity	Omnidirectional	
Power Requirements	Rechargeable Li-ion Battery 3.6 V 2350 mA/h	
Maximum Power Consumption	5.0 V 0.7 A	
Battery	Talk Time	Approximately 20 hours (power on)
	Standby Time	7 days
	Charge Time	Full charging: 5 hours, 80% charging: 3 hours
In Operation	Temperature	0°C - 40°C
	Humidity	20% - 85% (no condensation)
In Charging	Temperature	5°C - 40°C
	Humidity	20% - 85% (no condensation)
Storage	Temperature	-20°C - 60°C
	Humidity	10% - 90% (no condensation)
Indicators	Microphone indicator (3 colours) x 1, Battery indicator (3 colours) x 1	
Buttons	Microphone button x 4, Battery button x 1, PAIR button x 1	
Connectors	USB Type C (for battery charging) x 1, Charger I/F (4pin) x 1	
Accessories	Battery (RM-WBT) x 1, Owner's manual x 1	
Options	Replacement Battery RM-WBT	

Specifications

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RM-WGL

Description	Wireless Microphone	
Colour	Black	
Dimensions (W x D x H)	W 89.0 mm x D 89.0 mm x H 308.4 mm (including rubber feet and to center of gooseneck mic)	
Weight	152 g (including battery)	
Directivity	Unidirectional	
Power Requirements	Rechargeable Li-ion Battery 3.6 V 2350 mA/h	
Maximum Power Consumption	5.0 V 0.7 A	
Battery	Talk Time	Approximately 20 hours (power on)
	Standby Time	7 days
	Charge Time	Full charging: 5 hours, 80% charging: 3 hours
In Operation	Temperature	0°C - 40°C
	Humidity	20% - 85% (no condensation)
In Charging	Temperature	5°C - 40°C
	Humidity	20% - 85% (no condensation)
Storage	Temperature	-20°C - 60°C
	Humidity	10% - 90% (no condensation)
Indicators	Microphone indicator (3 colours) x 1, Ring indicator (3 colours) x 1, Battery indicator (3 colours) x 1	
Buttons	Microphone button x 1, Battery button x 1, PAIR button x 1	
Connectors	USB Type C (for battery charging) x 1, Charger I/F (4pin) x 1	
Accessories	Battery (RM-WBT) x 1, Owner's manual x 1	
Options	Replacement Battery RM-WBT	

RM-WGS

Description	Wireless Microphone	
Colour	Black	
Dimensions (W x D x H)	W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)	
Weight	140 g (including battery)	
Directivity	Unidirectional	
Power Requirements	Rechargeable Li-ion Battery 3.6 V 2350 mA/h	
Maximum Power Consumption	5.0 V 0.7 A	
Battery	Talk Time	Approximately 20 hours (power on)
	Standby Time	7 days
	Charge Time	Full charging: 5 hours, 80% charging: 3 hours
In Operation	Temperature	0°C - 40°C
	Humidity	20% - 85% (no condensation)
In Charging	Temperature	5°C - 40°C
	Humidity	20% - 85% (no condensation)
Storage	Temperature	-20°C - 60°C
	Humidity	10% - 90% (no condensation)
Indicators	Microphone indicator (3 colours) x 1, Ring indicator (3 colours) x 1, Battery indicator (3 colours) x 1	
Buttons	Microphone button x 1, Battery button x 1, PAIR button x 1	
Connectors	USB Type C (for battery charging) x 1, Charger I/F (4pin) x 1	
Accessories	Battery (RM-WBT) x 1, Owner's manual x 1	
Options	Replacement Battery RM-WBT	

Specifications

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RM-WAP-16

Description	Microphone Access Point				
Colour	White (paintable surface)				
Dimensions (W x D x H)	W 171.2 mm x D 172.5 mm x H 42.8 mm				
Weight	812 g (including mounting bracket)				
Power Requirements	PoE Class 3 (IEEE 802.3af)				
Maximum Power Consumption	48 V 0.2 A				
In Operation	<table> <tr> <td>Temperature</td><td>0°C - 40°C</td></tr> <tr> <td>Humidity</td><td>20% - 85% (no condensation)</td></tr> </table>	Temperature	0°C - 40°C	Humidity	20% - 85% (no condensation)
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Humidity	20% - 85% (no condensation)				
Storage	<table> <tr> <td>Temperature</td><td>-20°C - 60°C</td></tr> <tr> <td>Humidity</td><td>10% - 90% (no condensation)</td></tr> </table>	Temperature	-20°C - 60°C	Humidity	10% - 90% (no condensation)
Temperature	-20°C - 60°C				
Humidity	10% - 90% (no condensation)				
Indicators	Power indicator (3 colours) x 1, Status indicator (3 colours) x 1				
Buttons	Reset button x 1				
Connectors	RJ-45				
Mount	Wall mount, Ceiling mount (with bracket), Flat placing				
Maximum Device Number with RM-CR	RM-CR V2.8 or earlier: 1 RM-CR V3.0 or later: 4				
Accessories	Owner's manual x 1, Mounting bracket x 1 *Screw for mounting bracket or safety wire are not included				

RM-WAP-8

Description	Microphone Access Point				
Colour	White (paintable surface)				
Dimensions (W x D x H)	W 171.2 mm x D 172.5 mm x H 42.8 mm				
Weight	650 g (including mounting bracket)				
Power Requirements	PoE Class 3 (IEEE 802.3af)				
Maximum Power Consumption	48 V 0.2 A				
In Operation	<table> <tr> <td>Temperature</td><td>0°C - 40°C</td></tr> <tr> <td>Humidity</td><td>20% - 85% (no condensation)</td></tr> </table>	Temperature	0°C - 40°C	Humidity	20% - 85% (no condensation)
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Temperature	-20°C - 60°C				
Humidity	10% - 90% (no condensation)				
Indicators	Power indicator (3 colours) x 1, Status indicator (3 colours) x 1				
Buttons	Reset button x 1				
Connectors	RJ-45				
Mount	Wall mount, Ceiling mount (with bracket), Flat placing				
Maximum Device Number with RM-CR	RM-CR V2.8 or earlier: 2 RM-CR V3.0 or later: 8				
Accessories	Owner's manual x 1, Mounting bracket x 1 *Screw for mounting bracket or safety wire are not included				

Specifications

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RM-WCH-8

Description	Microphone Charger	
Colour	Black	
Dimensions (W x D x H)	W 304.0 mm x D 188.0 mm x H 41.5 mm (including rubber feet)	
Weight	800 g	
Material	Plastic	
Power Requirements	DC IN (16 V, 2.4 A)	
Maximum Power Consumption	16.0 V 2.0 A	
In Operation	Temperature	0°C - 40°C
	Humidity	20% - 85% (no condensation)
In Charging	Temperature	5°C - 40°C
	Humidity	20% - 85% (no condensation)
Storage	Temperature	-20°C - 60°C
	Humidity	10% - 90% (no condensation)
Indicators	ACTIVATE indicator (3 colours) x 1	
Buttons	ACTIVATE button x 1, PAIR button x 1	
Connectors	DC IN 16V	
Accessories	Owner's manual x 1, AC adapter x 1, Power cable x 1 (for Japan and USA), x 3 (for Europe)	

RM-WBT

Description	Replacement Battery	
Colour	Black	
Dimensions (W x D x H)	W 34.95 mm x D 52.5 mm x H 11.15 mm	
Weight	42 g	
Voltage	3.6 V	
Nominal Capacity	2350 mA/h	
Maximum Charge Current	1.59 A	
Maximum Charge Voltage	4.20 V	
Maximum Discharge Current	2.30 A	
In Operation	Temperature	0°C - 40°C
	Humidity	20% - 85% (no condensation)
Storage	Temperature	-20°C - 60°C
	Humidity	10% - 90% (no condensation)
Accessories	Safety brochure x 1	

Specifications

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Network Specifications

RM-WAP-16/RM-WAP-8

Ethernet	Dante, Remote Control, Web UI, PoE
Cable Requirements	CAT5e or higher (STP)

Audio Specifications

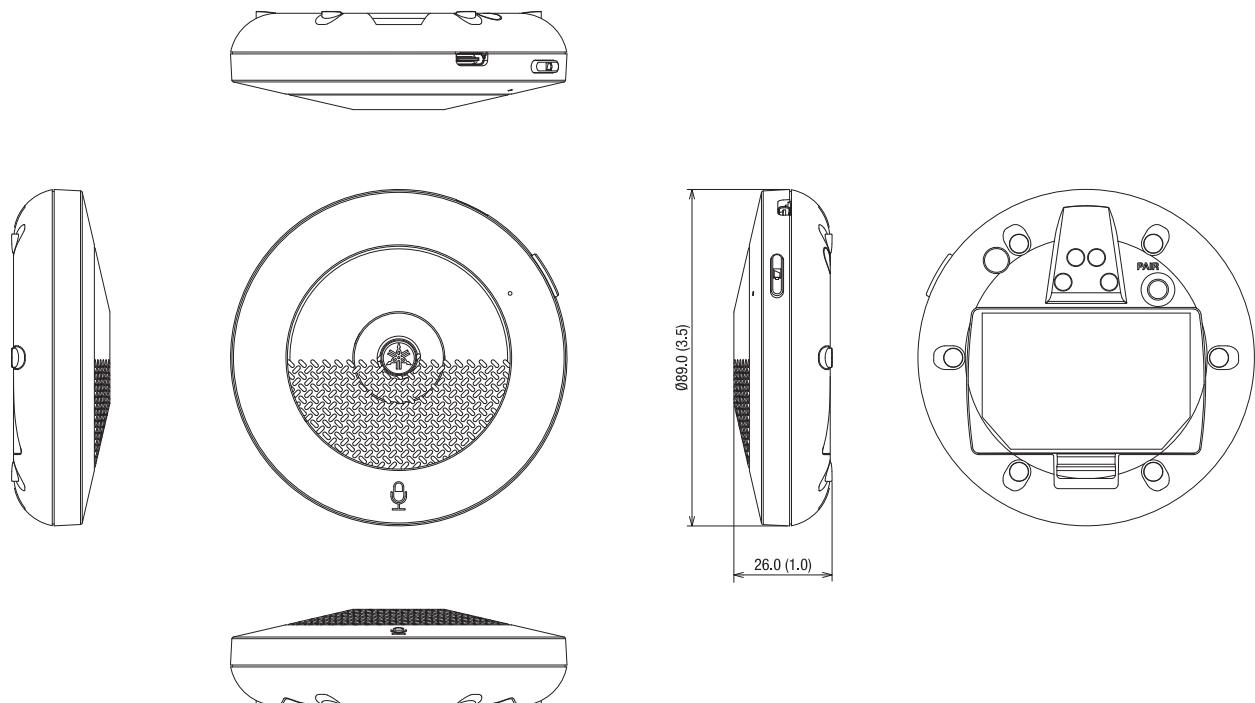
Frequency Response	160 Hz - 16 kHz	
Sampling Rate	48 kHz	
Bit Depth	24 bit	
Latency	RM-WDR/RM-WOM	30 ms - 35 ms nominal (without signal processing in High Quality mode) 110 ms nominal (with signal processing in High Quality mode)
	RM-WGL/RM-WGS	30 ms - 35 ms nominal (without signal processing in High Quality mode) 110 ms nominal (with signal processing in High Quality mode)
Audio I/O	Dante	RM-WAP-16: 1 in/16 out RM-WAP-8: 1 in/8 out
Maximum Input Level of SPL (0 dBFS)	RM-WDR	100.2 dB SPL
	RM-WOM	99.4 dB SPL
	RM-WGL	106.2 dB SPL
	RM-WGS	106.2 dB SPL
Self Noise	RM-WDR	-24.7 dBA SPL
	RM-WOM	-23.0 dBA SPL
	RM-WGL	-19.3 dBA SPL
	RM-WGS	-19.3 dBA SPL
SNR (Ref. 94 dB SPL at 1 kHz)	RM-WDR	118.7 dBA
	RM-WOM	117.0 dBA
	RM-WGL	113.3 dBA
	RM-WGS	113.3 dBA
Sensitivity	RM-WDR	-6.2 dBFS/Pa
	RM-WOM	-5.4 dBFS/Pa
	RM-WGL	-12.2 dBFS/Pa
	RM-WGS	-12.2 dBFS/Pa
Dynamic Range	RM-WDR	124.9 dBA
	RM-WOM	122.4 dBA
	RM-WGL	125.5 dBA
	RM-WGS	125.5 dBA
Signal Processing	Adaptive Echo Canceller, Noise Reduction, Dereverberation, Auto Gain Control, Parametric EQ, Output Gain Adjustment, Auto Mixer (V3.0 or later)	

Wireless Specifications

Radio Method	1.9 GHz DECT standard
Radio Frequency Range	USA, Canada: 1920.0 MHz - 1930.0 MHz Japan: 1893.5 MHz - 1906.1 MHz EU, Australia, New Zealand, Norway, UK, Hong Kong, UAE, Singapore: 1880.0 MHz - 1900.0 MHz
Maximum RF Power Level (EIRP)	USA, Canada: 20.1 dBm Japan: 27.0 dBm EU, Australia, New Zealand, Norway, UK, Hong Kong: 25.9 dBm UAE, Singapore: 23.8dBm
Maximum Coverage Distance	50 m (depends on the usage environment)
Encryption	AES (256-bit)

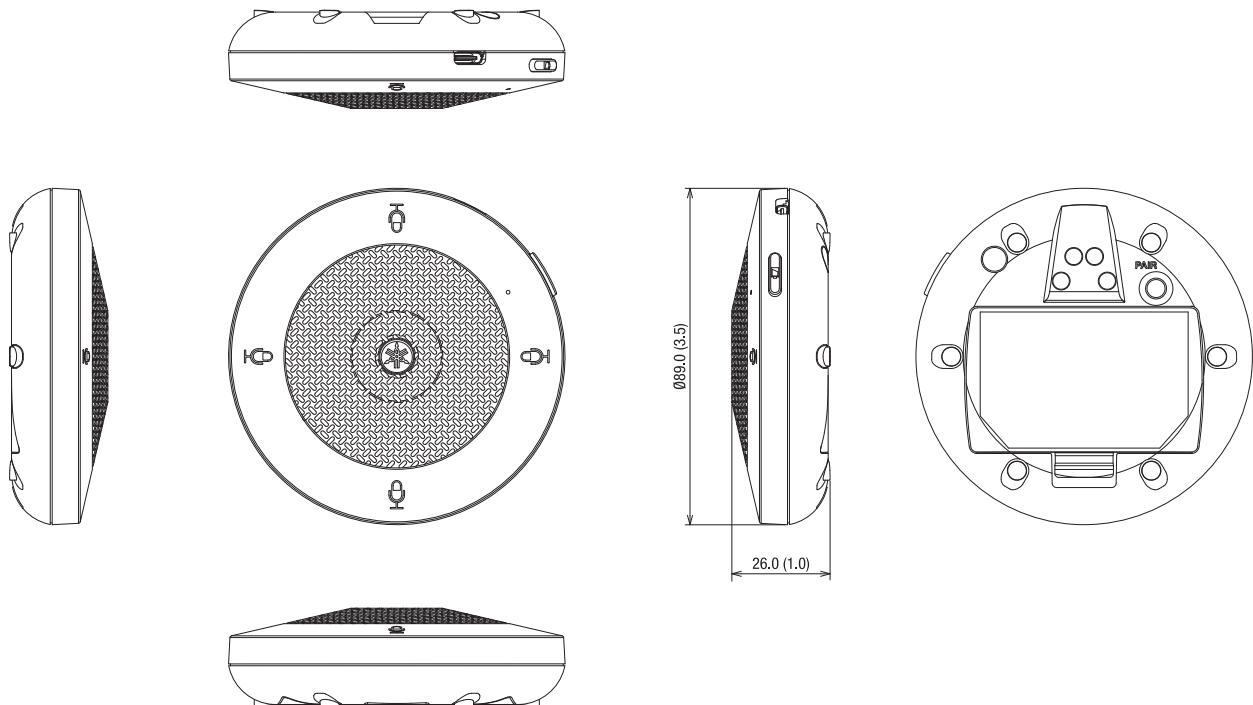
Dimensions**1/6**

Unit: mm (inch)

RM-WDR

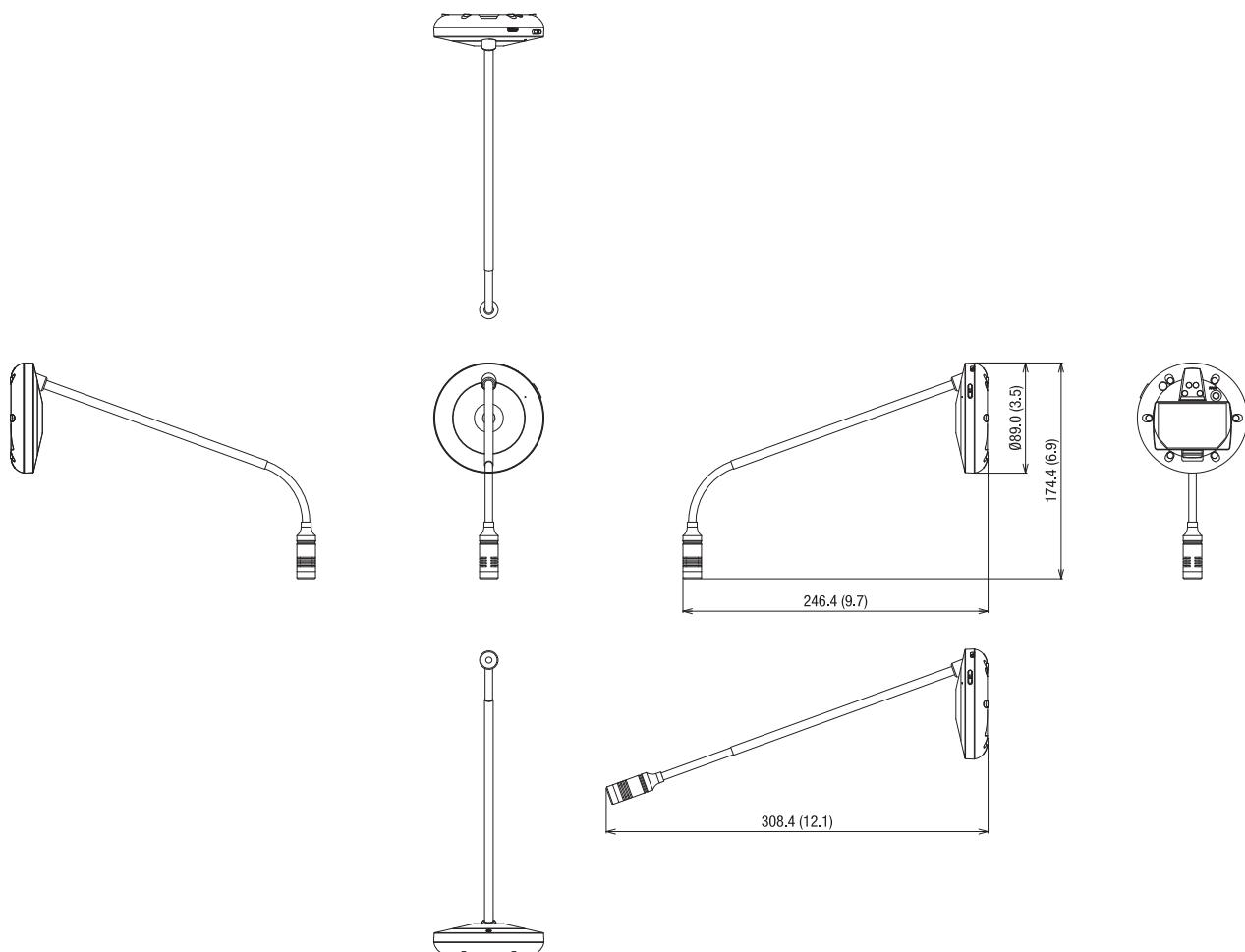
Dimensions**2/6**

Unit: mm (inch)

RM-WOM

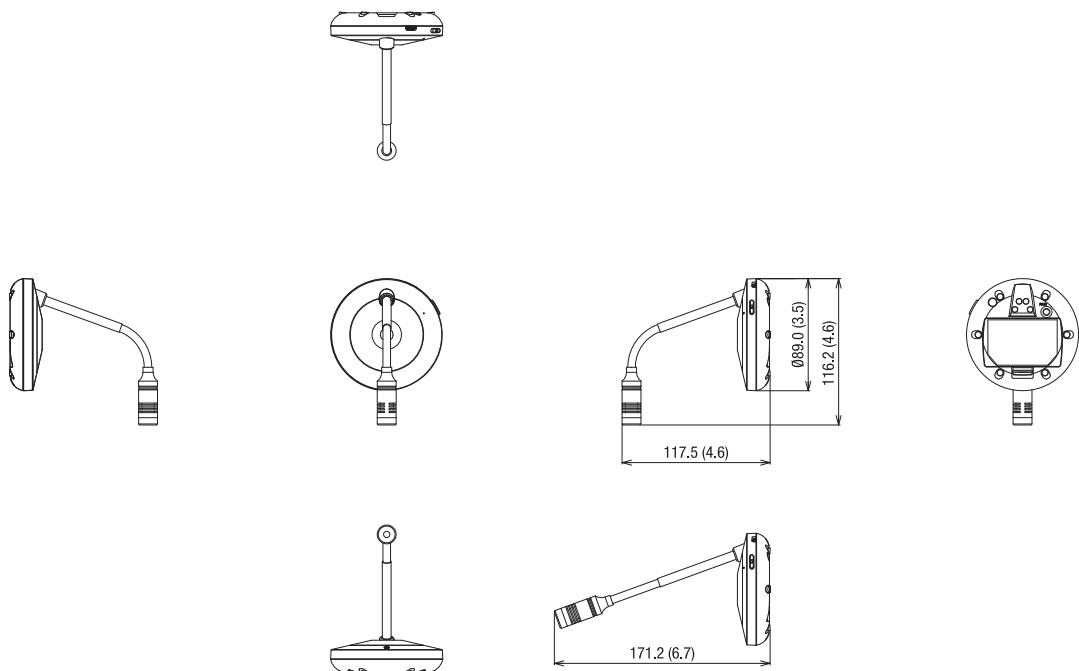
Dimensions**3/6**

Unit: mm (inch)

RM-WGL

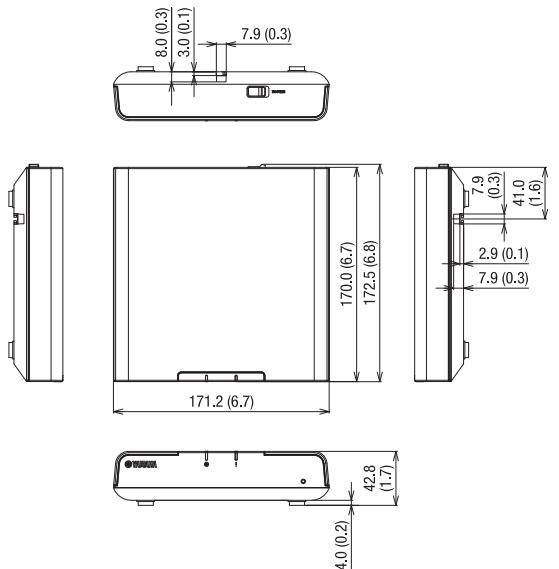
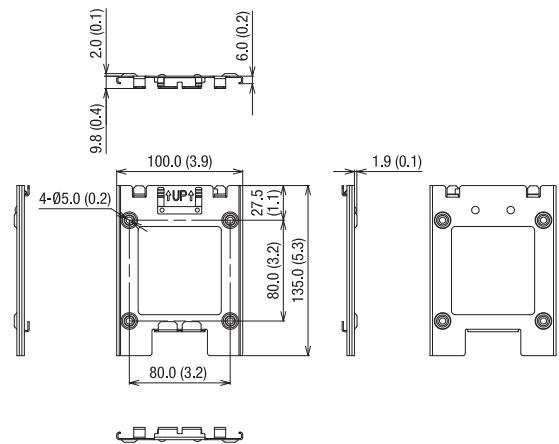
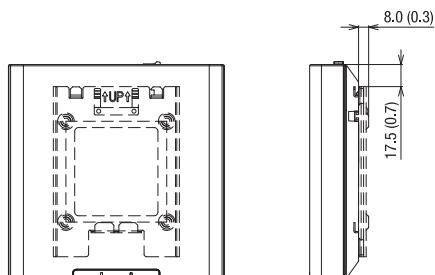
Dimensions**4/6**

Unit: mm (inch)

RM-WGS

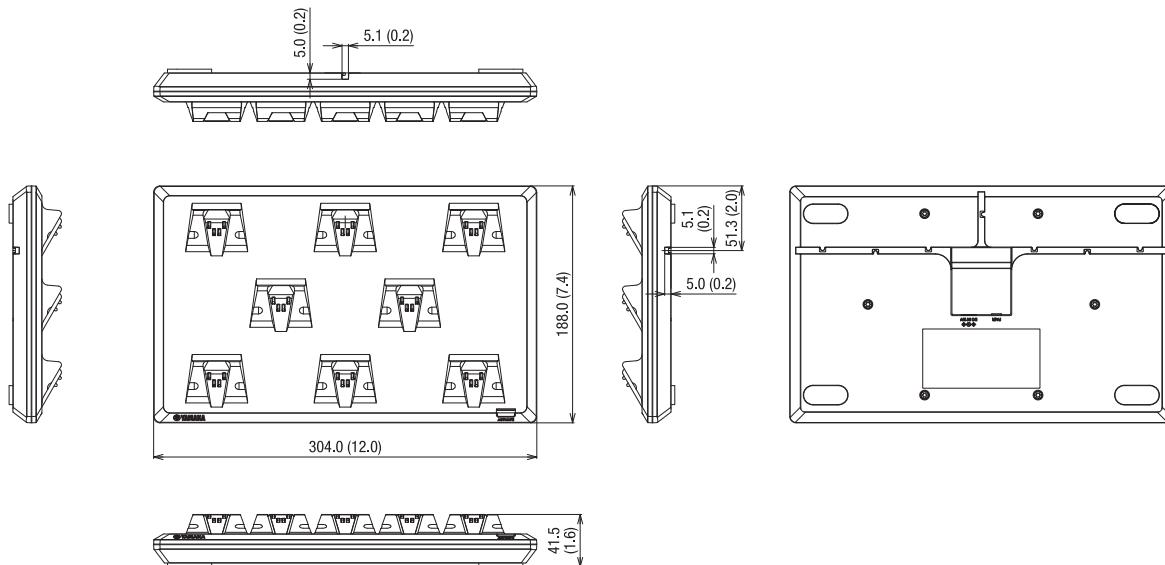
Dimensions
5/6

Unit: mm (inch)

RM-WAP-16/RM-WAP-8
Body

Bracket

Body + Bracket


Dimensions**6/6**

Unit: mm (inch)

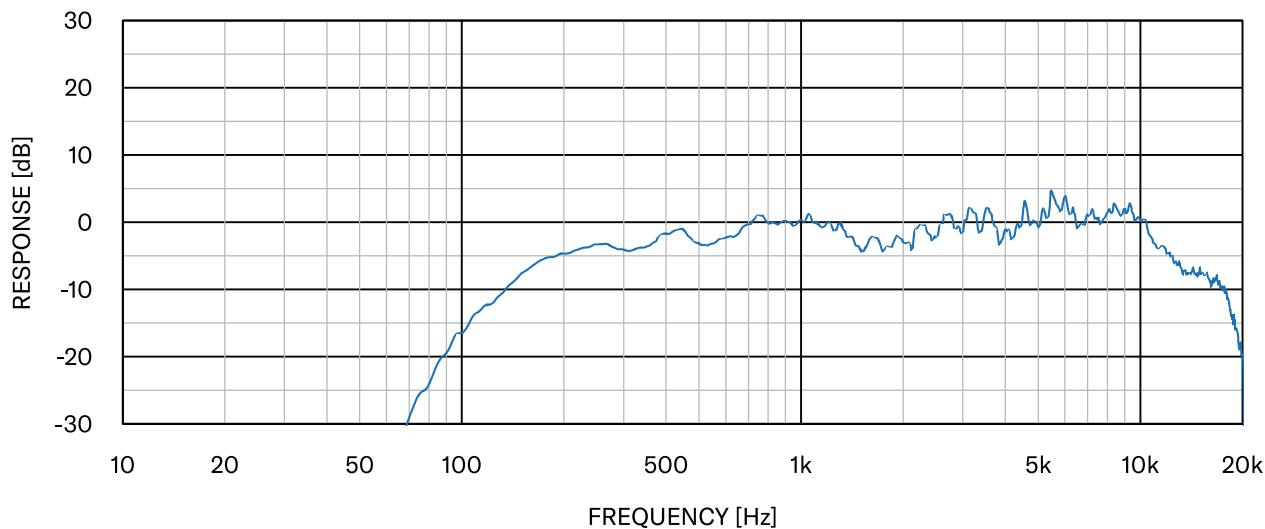
RM-WCH-8

Frequency Response

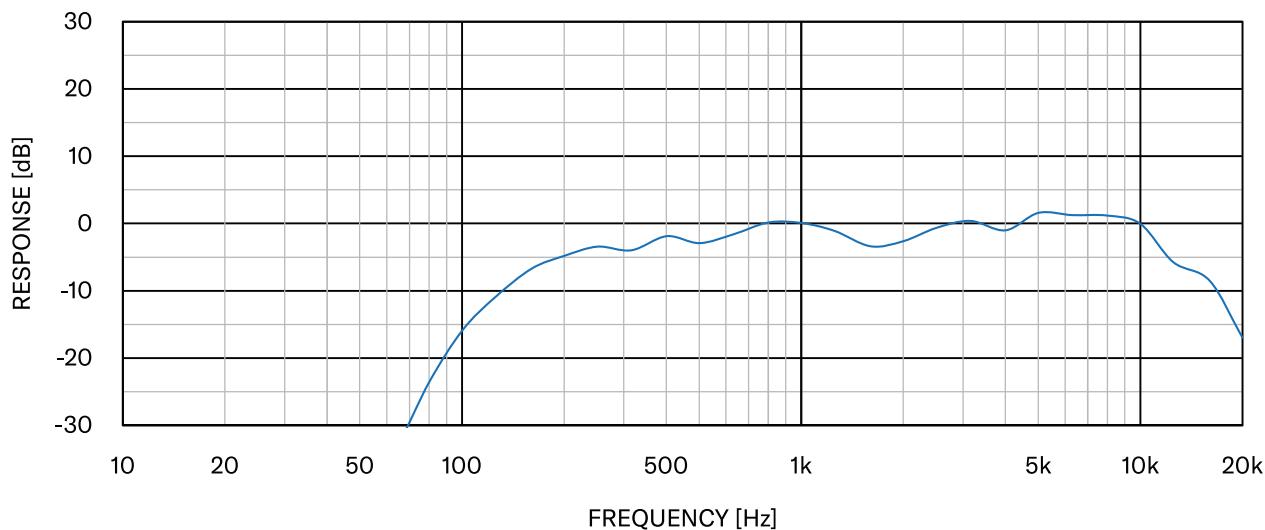
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RM-WDR

LINEAR



1/3 octave band

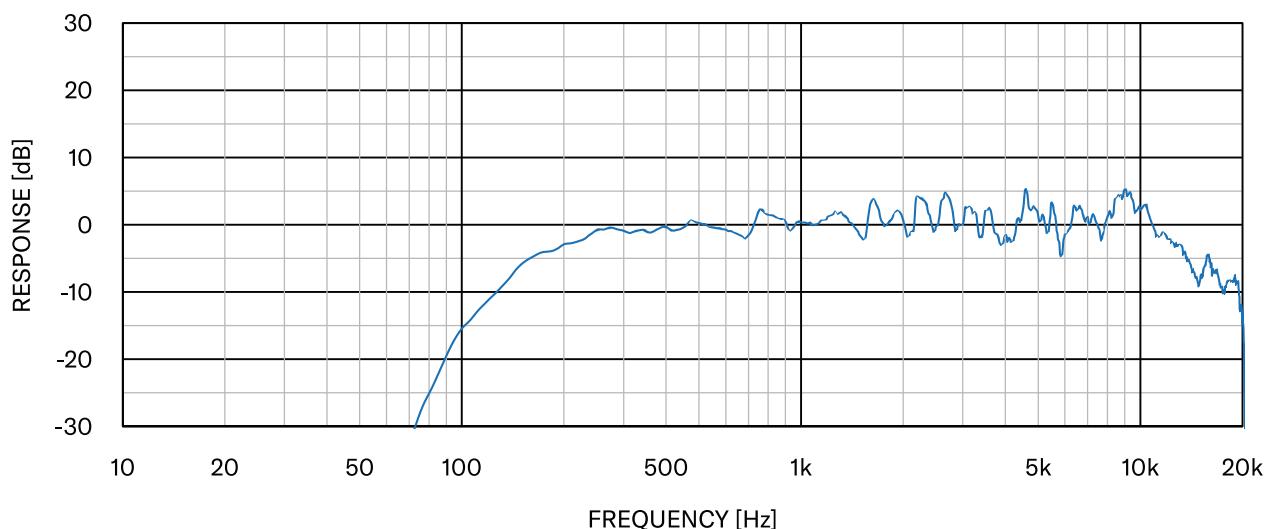


Frequency Response

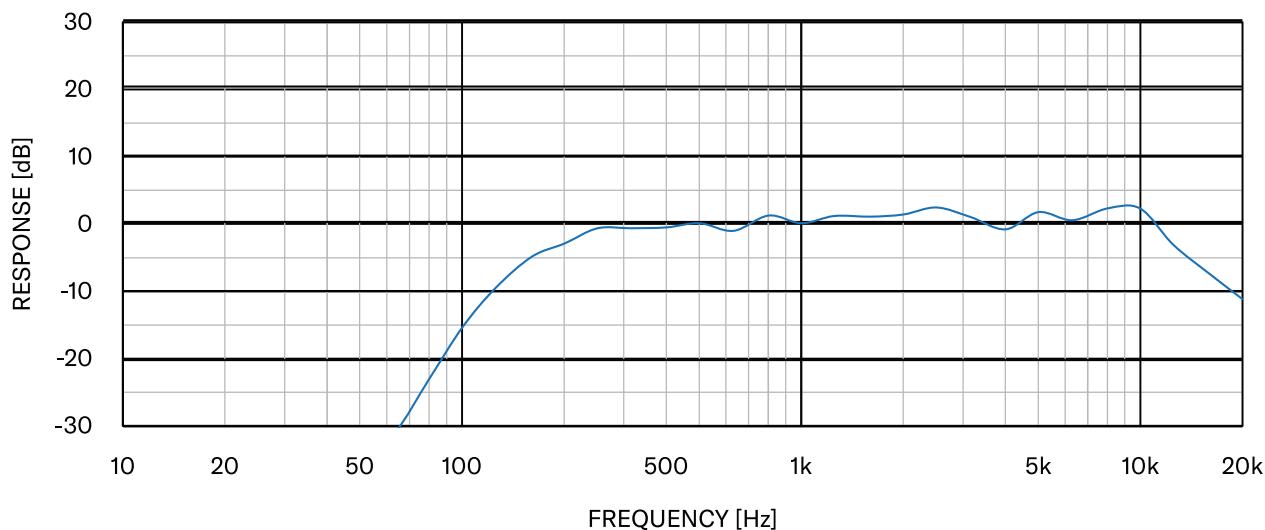
2/4

RM-WOM

LINEAR

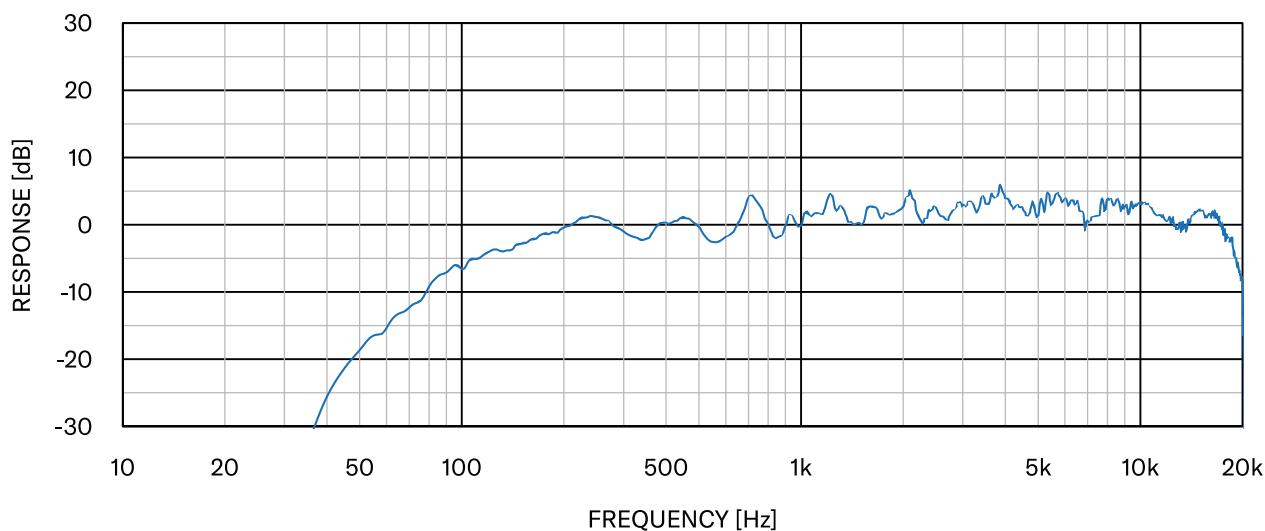


1/3 octave band

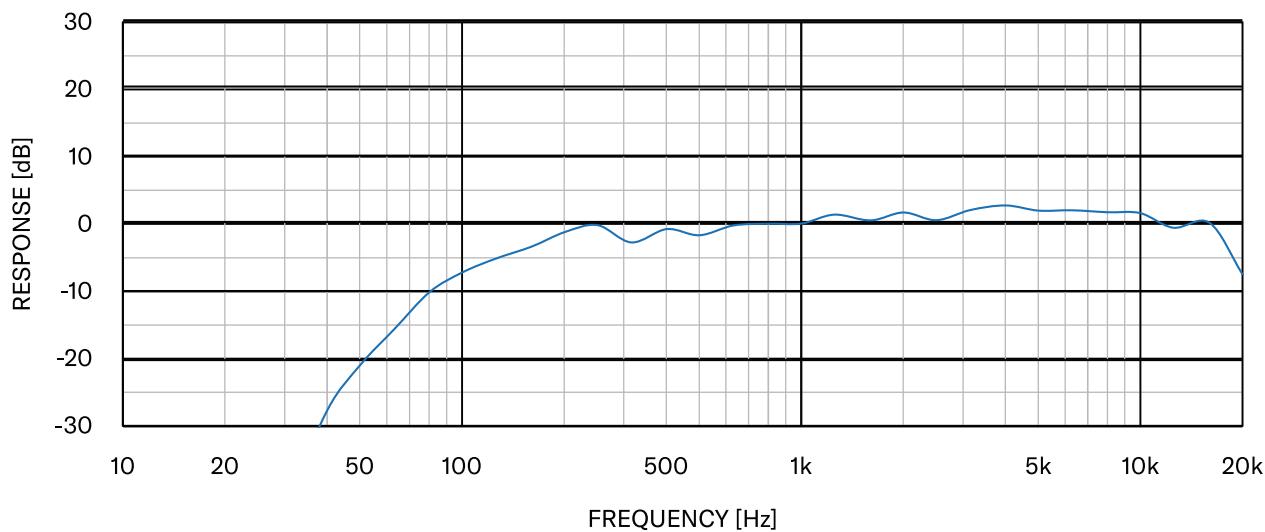


Frequency Response**3/4****RM-WGL**

LINEAR

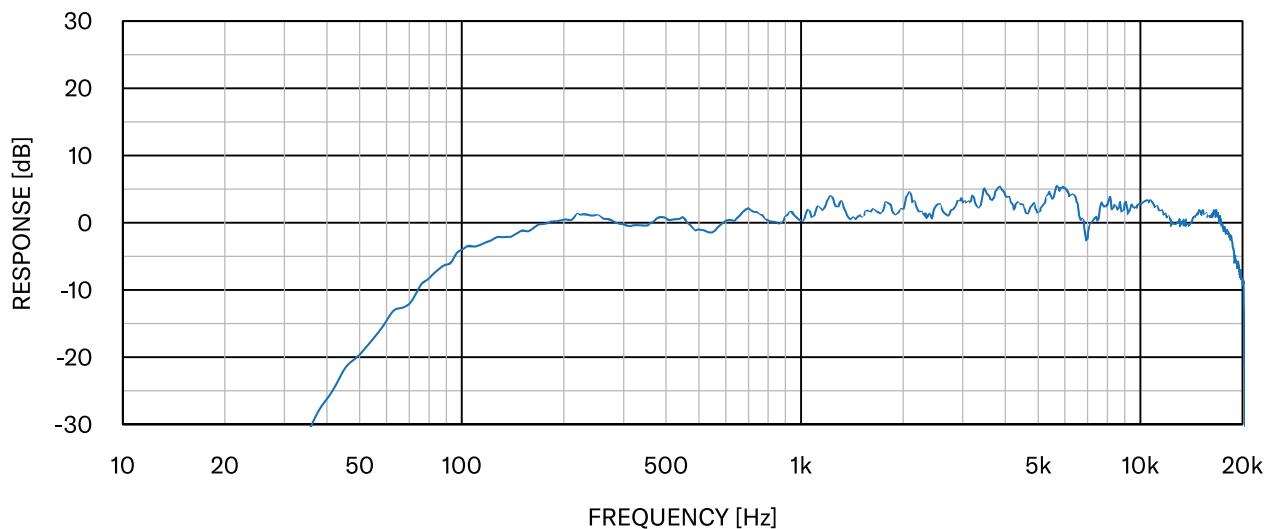


1/3 octave band

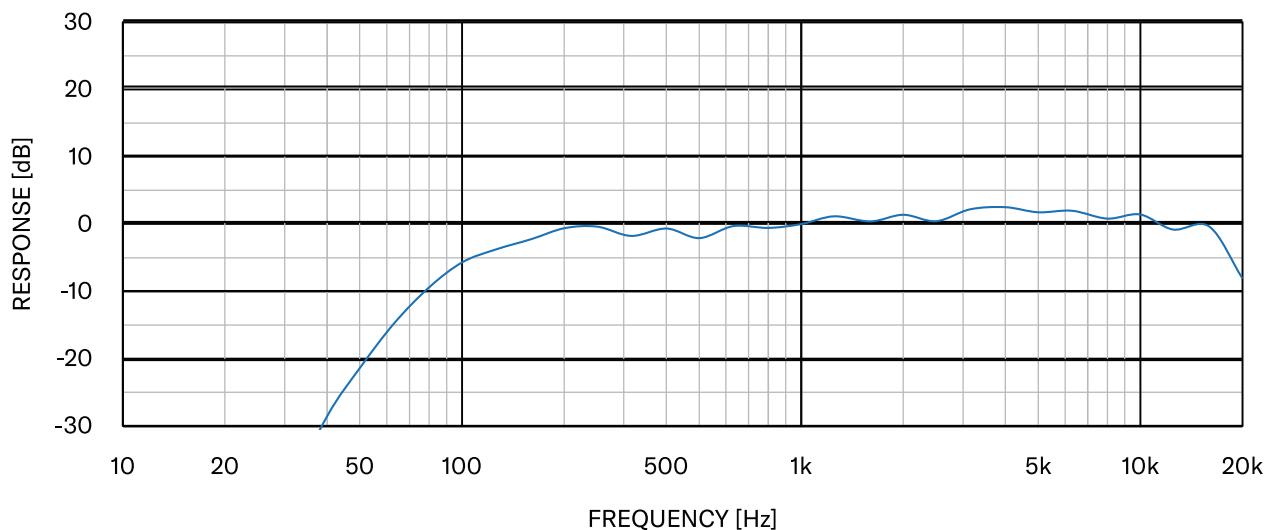


Frequency Response**4/4****RM-WGS**

LINEAR

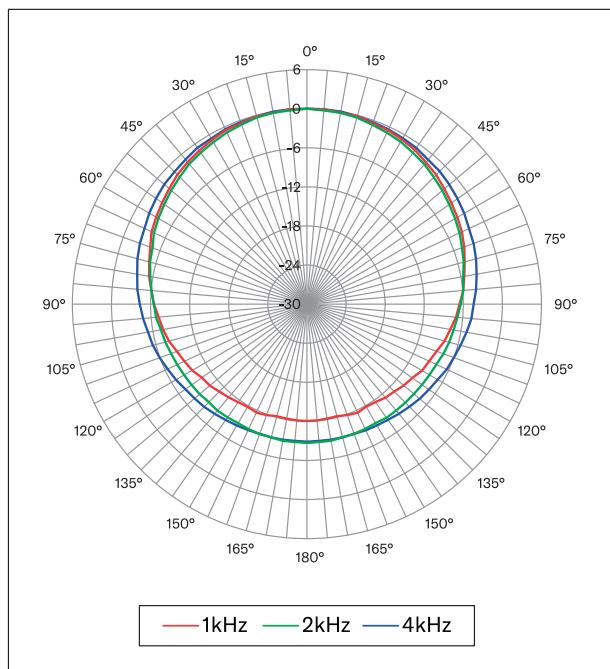


1/3 octave band

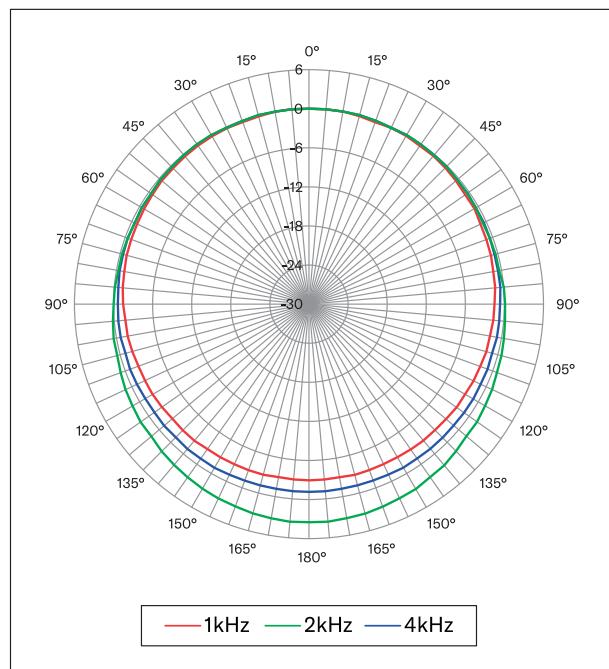


Directional Characteristics

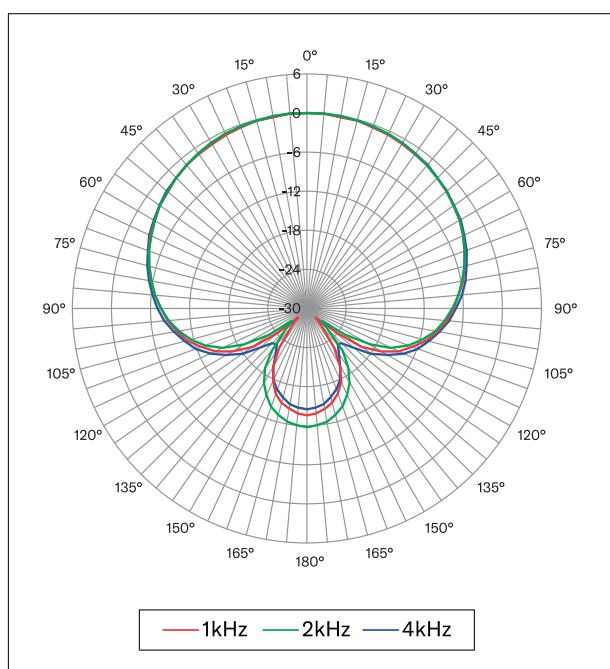
RM-WDR



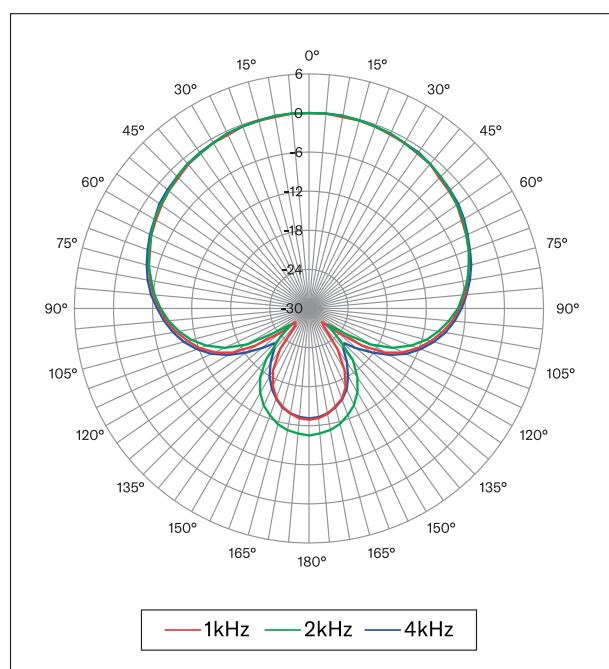
RM-WOM



RM-WGL



RM-WGS



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