

### **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 1/5

escription		Wireless Microphone
colour		Black
imensions (W x D x H)		W 89.0 mm x D 89.0 mm x H 26.0 mm (including rubber feet)
Veight		130 g (including battery)
Pirectivity		Unidirectional
requency Response		160 Hz - 16 kHz
ensitivity		-15.4 dBFS/Pa
ower		Rechargeable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH-8 Charger I/F (4pir
aximum Power Consur	mntion	5.0 V 0.7 A
Battery	Talk Time	Approximately 20 hours
	Standby Time	7 days
	Charge Time	Full charging: 5 hours (80% charging: 3 hours)
Operation	Temperature	0°C - 40°C
Орстанон	Humidity	20% - 85% (no condensation)
Charging	Temperature	5°C - 40°C
Gharging	Humidity	20% - 85% (no condensation)
torage	Temperature	-20°C - 60°C
oraye	<del></del>	
diantoro	Humidity	10% - 90% (no condensation)
dicators		Mic (3 colours) x 1, Battery (3 colours) x 1
uttons O		Mic x 1, Battery x 1, Pair x 1
		USB Type C (for battery charging) x 1, Charger I/F (4pin) x 1
ccessories		Battery (RM-WBT) x 1, Owner's Manual x 1
otions		Replacement Battery RM-WBT
1-WOM		
escription		Wireless Microphone
blour		Black
mensions (W x D x H)		W 89.0 mm x D 89.0 mm x H 26.0 mm (including rubber feet)
eight		126 g (including battery)
rectivity		Omnidirectional
equency Response		160 Hz - 16 kHz
ensitivity		-14 dBFS/Pa
ower		Rechargeable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)
aximum Power Consur	mption	5.0 V 0.7 A
attery	Talk Time	Approximately 20 hours
	Standby Time	7 days
	Charge Time	Full charging: 5 hours (80% charging: 3 hours)
Operation	Temperature	0°C - 40°C
	Humidity	20% - 85% (no condensation)
Charging	Temperature	5°C - 40°C
	Humidity	20% - 85% (no condensation)
Storage	Temperature	-20°C - 60°C
	Humidity	10% - 90% (no condensation)
ndicators		Mic (3 colours) x 1, Battery (3 colours) x 1
uttons		Mic x 4, Battery x 1, Pair x 1
0		USB TypeC (for battery charging) x 1, Charger I/F (4pin) x 1



Specifications 2/5

RM-WGL		
Description		Wireless Microphone
Colour		Black
Dimensions (W x D x H)		W 89.0 mm x D 89.0 mm x 308.4 mm (including rubber feet and to center of gooseneck mic)
Weight		152 g (including battery)
Directivity		Unidirectional
Frequency Response		160 Hz - 16 kHz
Sensitivity		-20.0 dBFS/Pa
Power		Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)
Maximum Power Consumption		5.0 V 0.7 A
Battery	Talk Time	Approximately 20 hours
	Standby Time	7 days
	Charge Time	Full charging: 5 hours (80% charging: 3 hours)
n Operation	Temperature	0°C - 40°C
in operation	Humidity	20% - 85% (no condensation)
n Charging	Temperature	5°C - 40°C
3 3	Humidity	20% - 85% (no condensation)
Storage	Temperature	-20°C - 60°C
	Humidity	10% - 90% (no condensation)
ndicators	,	Mic (3 colours) x 1, Ring (3 colours) x 1, Battery (3 colours) x 1
Buttons		Mic x 1, Battery x 1, Pair x 1
/0		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
M-WGS		
		Wireless Microphone
Description		Wireless Microphone Black
Description Colour	l)	Black
Description Colour Dimensions (W x D x F	l)	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)
Description Colour Dimensions (W x D x H Weight	I)	Black
Description Colour Dimensions (W x D x H Weight Directivity	1)	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic) 140 g (including battery)
Description Colour Dimensions (W x D x F Weight Directivity Frequency Response	1)	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic) 140 g (including battery) Unidirectional
Description Colour Dimensions (W x D x H Weight Directivity Frequency Response Gensitivity	I)	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic) 140 g (including battery) Unidirectional 160 Hz - 16 kHz
Description Colour Dimensions (W x D x H Weight Directivity Frequency Response Gensitivity Power		Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic) 140 g (including battery) Unidirectional 160 Hz - 16 kHz -20.0 dBFS/Pa
Description Colour Dimensions (W x D x H Weight Directivity Frequency Response Sensitivity Power Maximum Power Cons	umption	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic) 140 g (including battery) Unidirectional 160 Hz - 16 kHz -20.0 dBFS/Pa Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin) 5.0 V 0.7 A
Description Colour Dimensions (W x D x H Weight Directivity Frequency Response Sensitivity Power Maximum Power Cons		Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery) Unidirectional  160 Hz - 16 kHz -20.0 dBFS/Pa Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)
Description Colour Dimensions (W x D x H Weight Directivity Frequency Response Sensitivity Power Maximum Power Cons	sumption  Talk Time  Standby Time	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery) Unidirectional  160 Hz - 16 kHz -20.0 dBFS/Pa  Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A  Approximately 20 hours
Description Colour Dimensions (W x D x F Veight Directivity Frequency Response Sensitivity Power Maximum Power Cons Battery	umption Talk Time	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery) Unidirectional  160 Hz - 16 kHz -20.0 dBFS/Pa  Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A  Approximately 20 hours  7 days
Description Colour Dimensions (W x D x F Veight Directivity Frequency Response Sensitivity Power Maximum Power Cons Battery	sumption Talk Time Standby Time Charge Time	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery) Unidirectional  160 Hz - 16 kHz -20.0 dBFS/Pa Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin) 5.0 V 0.7 A Approximately 20 hours 7 days Full charging: 5 hours (80% charging: 3 hours)
Description Colour Dimensions (W x D x F Veight Directivity Frequency Response Gensitivity Power Maximum Power Cons Battery	Talk Time Standby Time Charge Time Temperature	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery) Unidirectional  160 Hz - 16 kHz  -20.0 dBFS/Pa  Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A  Approximately 20 hours  7 days Full charging: 5 hours (80% charging: 3 hours)  0°C - 40°C
Description Colour Dimensions (W x D x F Veight Directivity Frequency Response Gensitivity Power Maximum Power Cons Battery	Talk Time  Standby Time  Charge Time  Temperature  Humidity	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery) Unidirectional  160 Hz - 16 kHz -20.0 dBFS/Pa  Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A  Approximately 20 hours  7 days  Full charging: 5 hours (80% charging: 3 hours)  0°C - 40°C  20% - 85% (no condensation)  5°C - 40°C
Description Colour Colour Dimensions (W x D x F Veight Directivity Frequency Response Gensitivity Power Maximum Power Cons Battery In Operation In Charging	Talk Time  Standby Time  Charge Time  Temperature  Humidity  Temperature  Humidity	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery) Unidirectional  160 Hz - 16 kHz -20.0 dBFS/Pa  Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A Approximately 20 hours  7 days Full charging: 5 hours (80% charging: 3 hours)  0°C - 40°C  20% - 85% (no condensation)
Description Colour Dimensions (W x D x F Weight Directivity Frequency Response Sensitivity Power Maximum Power Cons Battery  n Operation  n Charging	Talk Time Standby Time Charge Time Temperature Humidity Temperature Humidity Temperature	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery) Unidirectional  160 Hz - 16 kHz -20.0 dBFS/Pa Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A Approximately 20 hours 7 days Full charging: 5 hours (80% charging: 3 hours)  0°C - 40°C 20% - 85% (no condensation)  5°C - 40°C 20% - 85% (no condensation)
Description Colour Dimensions (W x D x F Weight Directivity Frequency Response Gensitivity Power Maximum Power Cons Battery In Operation In Charging Storage	Talk Time  Standby Time  Charge Time  Temperature  Humidity  Temperature  Humidity	Black W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery) Unidirectional  160 Hz - 16 kHz  -20.0 dBFS/Pa  Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A  Approximately 20 hours  7 days Full charging: 5 hours (80% charging: 3 hours)  0°C - 40°C  20% - 85% (no condensation)  5°C - 40°C  20% - 85% (no condensation)  -20°C - 60°C  10% - 90% (no condensation)
Description Colour Dimensions (W x D x F Weight Directivity Frequency Response Sensitivity Power Maximum Power Cons Battery In Operation In Charging Storage	Talk Time Standby Time Charge Time Temperature Humidity Temperature Humidity Temperature	Black  W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery)  Unidirectional  160 Hz - 16 kHz  -20.0 dBFS/Pa  Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A  Approximately 20 hours  7 days  Full charging: 5 hours (80% charging: 3 hours)  0°C - 40°C  20% - 85% (no condensation)  5°C - 40°C  20% - 85% (no condensation)  -20°C - 60°C  10% - 90% (no condensation)  Mic (3 colours) x 1, Ring (3 colours) x 1, Battery (3 colours) x 1
Description Colour Dimensions (W x D x F Weight Directivity Frequency Response Sensitivity Power Maximum Power Cons Battery In Operation In Charging Storage Indicators Buttons	Talk Time Standby Time Charge Time Temperature Humidity Temperature Humidity Temperature	Black  W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery)  Unidirectional  160 Hz - 16 kHz  -20.0 dBFS/Pa  Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A  Approximately 20 hours  7 days  Full charging: 5 hours (80% charging: 3 hours)  0°C - 40°C  20% - 85% (no condensation)  5°C - 40°C  20% - 85% (no condensation)  -20°C - 60°C  10% - 90% (no condensation)  Mic (3 colours) x 1, Ring (3 colours) x 1, Battery (3 colours) x 1  Mic x 1, Battery x 1, Pair x 1
am-WGS Description Colour Dimensions (W x D x F Weight Directivity Frequency Response Sensitivity Power Maximum Power Cons Battery In Operation In Charging Storage Indicators Buttons I/O Accessories	Talk Time Standby Time Charge Time Temperature Humidity Temperature Humidity Temperature	Black  W 89.0 mm x D 89.0 mm x H 171.2 mm (including rubber feet and to center of gooseneck mic)  140 g (including battery)  Unidirectional  160 Hz - 16 kHz  -20.0 dBFS/Pa  Rechargable Li-ion Battery 3.6 V 2350 mA/h. For Charge I/F: USB Type C, RM-WCH Charger I/F (4pin)  5.0 V 0.7 A  Approximately 20 hours  7 days  Full charging: 5 hours (80% charging: 3 hours)  0°C - 40°C  20% - 85% (no condensation)  5°C - 40°C  20% - 85% (no condensation)  -20°C - 60°C  10% - 90% (no condensation)  Mic (3 colours) x 1, Ring (3 colours) x 1, Battery (3 colours) x 1



Specifications 3/5

RM-WAP-8		
Description		Microphone Accesspoint
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 Requirement		IEEE 802.3af (PoE Class 3)
Maximum Power Cor	nsumption	48 V 0.2 A
In Operation	Temperature	0°C - 40°C
	Humidity	20% - 85% (no condensation)
Storage	Temperature	-20°C - 60°C
	Humidity	10% - 90% (no condensation)
Indicators		Power (3 colours) x 1, Status (3 colours) x 1
Buttons		Reset x 1
Connector		RJ-45 (Dante Audio, Dante Control, Remote Control, PoE)
Audio I/O		Dante (1 in / 8 out)
Mount		Wall mount, Ceiling mount (with bracket), Flat placing
Maximum Device Nu	mber with RM-CR	2units (Connection with other than RM-CR is not limited to this device)
Accessories		Owner's Manual x 1, Mounting bracket x 1
		*Screw for Mounting Bracket or Safety Wire are not included
RM-WCH-8		
Description		Microphone Charger
Colour		Black
Dimensions (W x D x	H)	W 304 mm x D 188 mm x H 41.5 mm (including rubber feet)
Weight		800 g
Material		Plastic
Power		DC IN (16 V, 2.4 A)
Maximum Power Cor	nsumption	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 (3 colours) x 1
Buttons		Activate x 1, Pair x 1
1/0		DC IN x 1
Accessories		Owner's Manual x 1, AC adapter x 1, Cable x 1 (for Japan and USA), x 3 (for Europe)



Specifications 4/5

RM-WBT		
Description		Replacement Battery
Colour		Black
Dimensions (W x D x H)		H 11.15 mm x W 34.95 mm x D 52.5 mm
Weight		42 g
Voltage		3.6 V
Nominal Capacity		2350 mA/h
Maximum Charge Cur	rent	1.59 A
Maximum Charge Vol	tage	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		RM-WBT Safety Brochure x 1



Specifications 5/5

### **Network Specifications**

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	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	1 in x 8/16 out
Maximum Input Level	RM-WDR	100.2 dB SPL
of SPL (0 dBFS)	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		AEC, Noise Reduction, De-reverberation, AGC, PEQ, Output Gain Adjustment

### **Wireless Specifications**

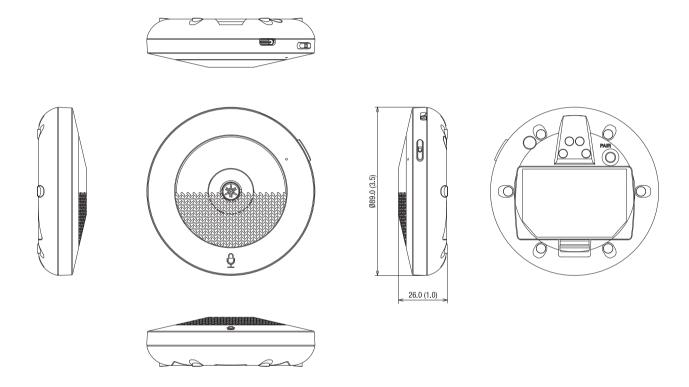
Radio Method	1.9 GHz DECT standard
Radio Frequency Range	USA, Canada: 1920.0 MHz - 1930.0 MHz
	Japan: 1893.5 MHz - 1906.1 MHz
	EU, Australia, New Zealand, Norway, UK: 1880.0 MHz - 1900.0 MHz
Maximum RF Power Level	USA, Canada: 23.5 dBm
	Japan: 26.5 dBm
	EU, Australia, New Zealand, Norway, Sweden, Finland, Denmark, UK: 26.5 dBm
Maximum Coverage Distance	50 m (depends on the usage environment)
Encryption	AES (256-bit)



## Dimensions 1/6

Unit: mm (inch)

# **RM-WDR**

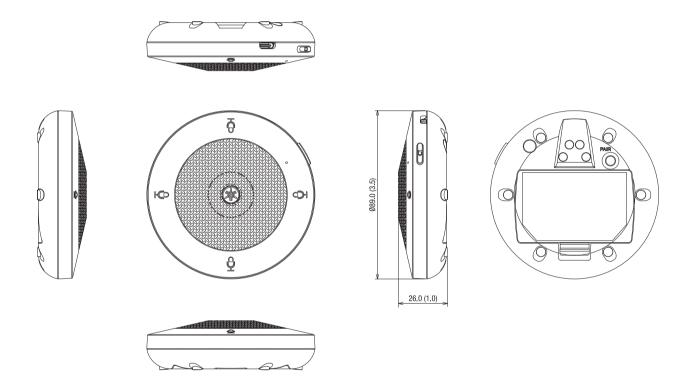




## Dimensions 2/6

Unit: mm (inch)

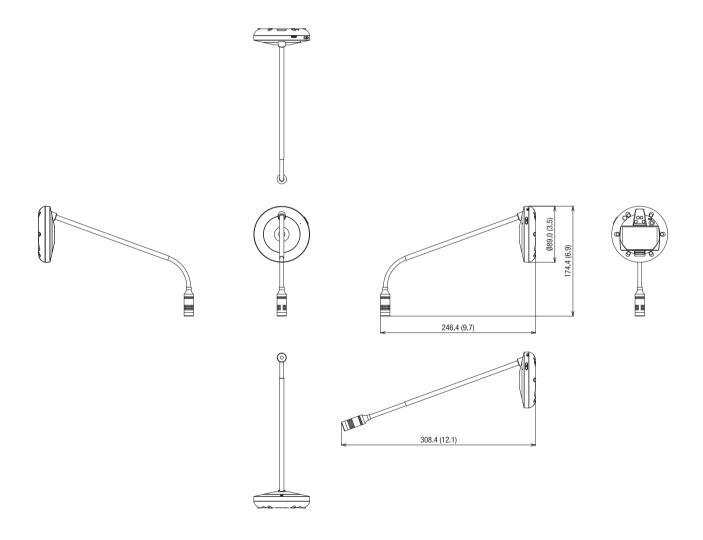
# **RM-WOM**



## Dimensions 3/6

Unit: mm (inch)

# RM-WGL





## Dimensions 4/6

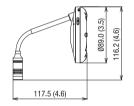
Unit: mm (inch)

# **RM-WGS**















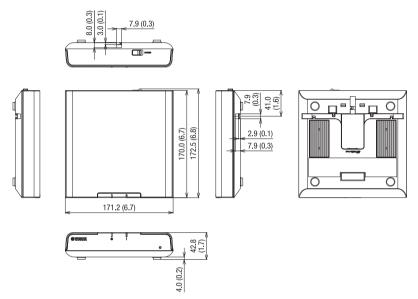


### Dimensions 5/6

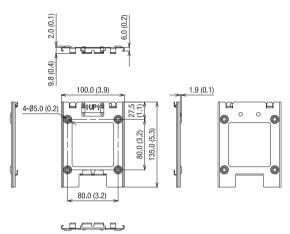
Unit: mm (inch)

### RM-WAP-8

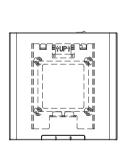


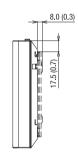


### **Bracket**



### Body + Bracket



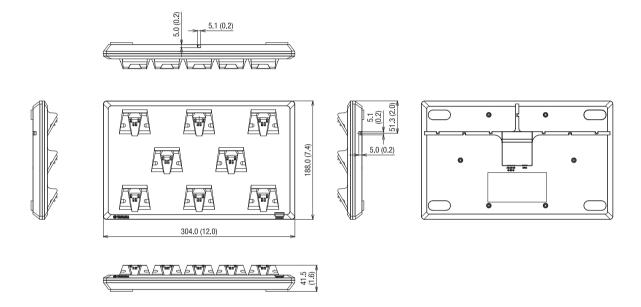




### Dimensions 6/6

Unit: mm (inch)

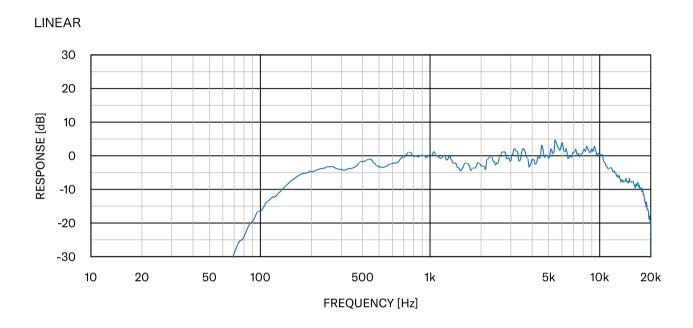
## RM-WCH-8

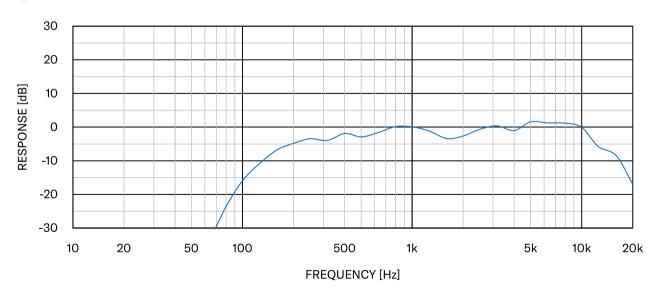




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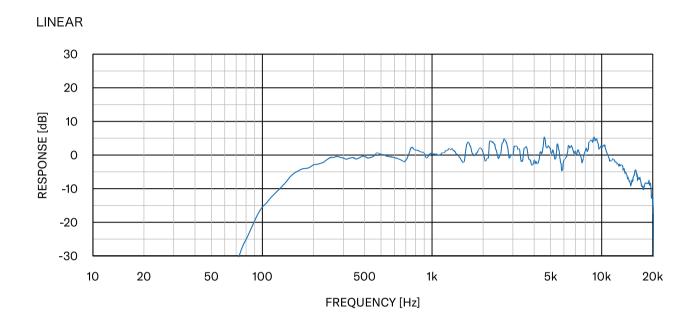
#### **RM-WDR**

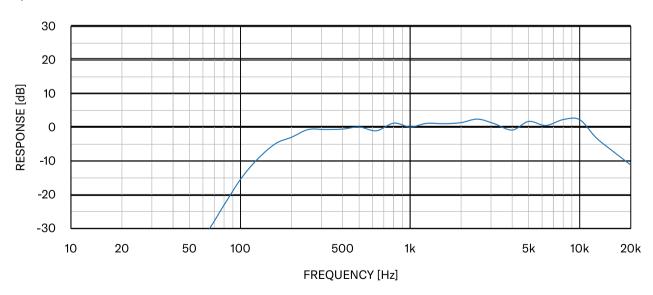






#### **RM-WOM**

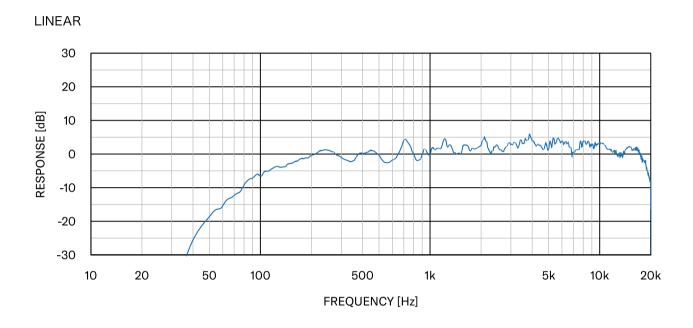


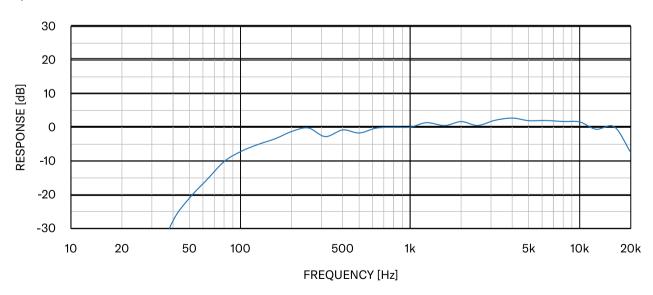




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#### RM-WGL

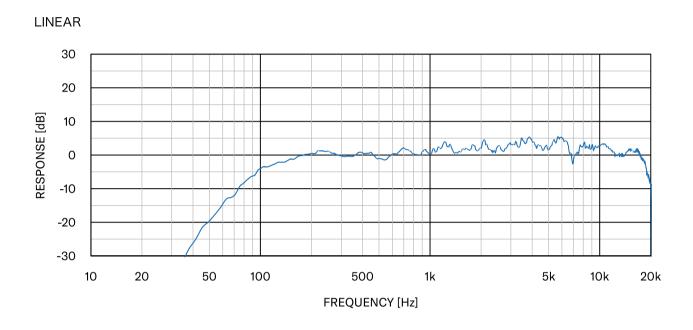


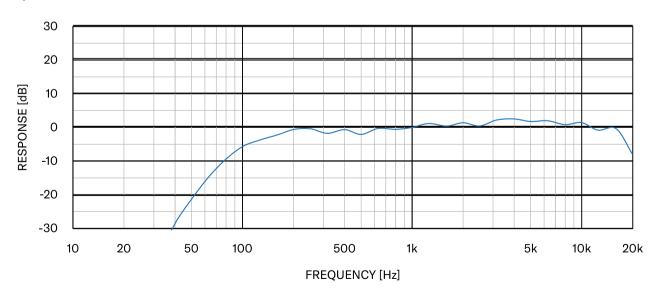




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#### **RM-WGS**

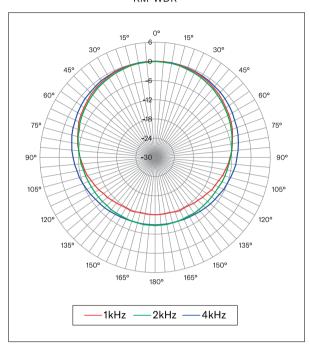




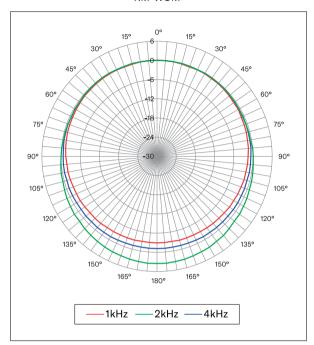


### **Directional Characteristics**

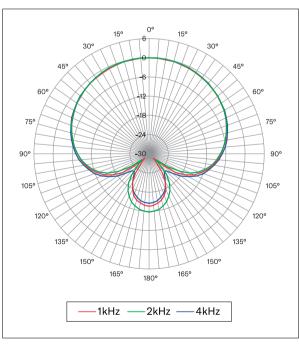
#### RM-WDR



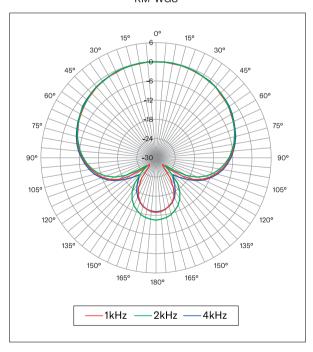
#### RM-WOM



#### RM-WGL



#### RM-WGS



YAMAHA CORPORATION P.O.BOX 1, Hamamatsu Japan www.yamaha.com/proaudio/

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