YAMAHA
Make Waves

RM-W
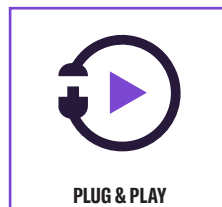## WIRELESS MICROPHONE SYSTEM

RM-W

SPECIAL FEATURES OF THE COMPLETE ADECIA SOLUTION

BEST AUDIO QUALITY

Professional Audio Quality for your Conference from Input to Output thanks to Yamaha's Technologies
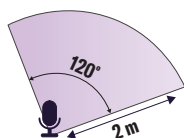
HIGH SCALABILITY

For medium sized to bigger rooms, from 5 to 50 people

PLUG & PLAY

Easy to install and operate with a web based User Interface – works with all conferencing platforms

AUTO TUNE SETUP

Unique "Auto Room Tuning" sets all parameters of the devices to get the best acoustic settings for the room
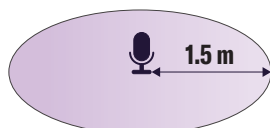
RM-WGL/RM-WGS GOOSENECK MICROPHONES

· WIRELESS 30 CM (RM-WGL) & WIRELESS 15 CM (RM-WGS) MICROPHONE
· WIRELESS MICROPHONES USING 1.9GHZ BAND
· APPROX. 20 HOURS OF CONTINUOUS MICROPHONE OPERATION TIME, USING THE INCLUDED LI-ION BATTERY

120°

2 m

One RM-WDR covers an area of 120° and 2 m distance

OMNIDIRECTIONAL

CARDIOID

RM-WDR/RM-WOM TABLETOP MICROPHONES

· OMNIDIRECTIONAL BOUNDARY (RM-WOM) & CARDIOID DIRECTIONAL BOUNDARY (RM-WDR)
· WIRELESS MICROPHONES USING 1.9GHZ BAND
· APPROX. 20 HOURS OF CONTINUOUS MICROPHONE OPERATION TIME, USING THE INCLUDED LI-ION BATTERY
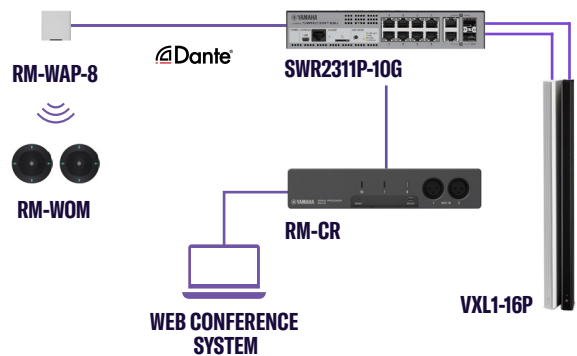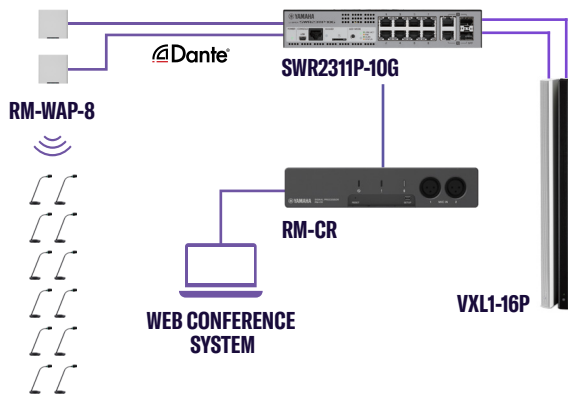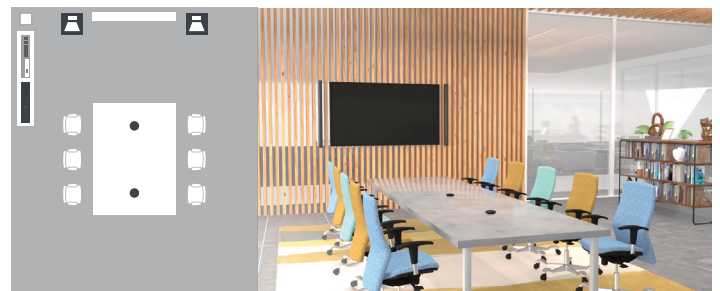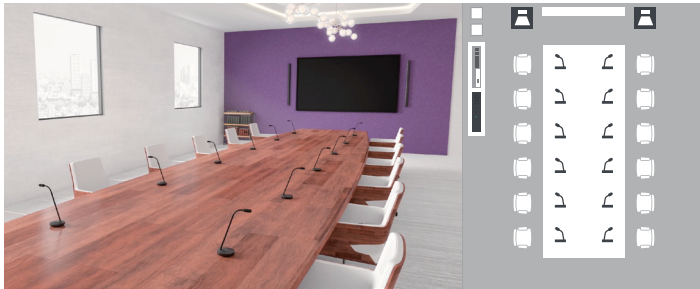
1.5 m

One RM-WOM covers an area of 1.5 m radius

RM-WAP-8 WIRELESS ACCESS POINT

· ACCESS POINT OF 1.9GHZ BAND WIRELESS MICROPHONE SYSTEM
· SUPPORTS 8 CHANNELS
· PROVIDES THE DIGITAL SIGNAL PROCESSING– SECTION WITH
  HIGH-SPEED ECHO CANCELLATION, DEREVERBERATION, NOISE REDUC-
  TION AND AUTO GAIN CONTROL AND HUMAN VOICE AUTO DETECTION
· DANTE AUDIO/CONTROL RECEPTION AND POE POWER ARE
  PROVIDED THROUGH A SINGLE NETWORK CABLE -> 10W
· THE WEB UI SETUP WIZARD ALLOWS FOR EFFORTLESS CONFIGURATION

RM-W SYSTEM EXAMPLES

RM-WAP-8
SWR2311P-10G
RM-CR
WEB CONFERENCE SYSTEM
VXL1-16P

RM-WAP-8
SWR2311P-10G
RM-WOM
RM-CR
WEB CONFERENCE SYSTEM
VXL1-16P

ACCESSORIES

RM-WCH-8 Microphone Charging Station

· **MICROPHONE CHARGER FOR THE
  WIRELESS MICROPHONES IN THE RM SERIES**
· **UP TO 8 MICROPHONES CAN BE
  CHARGED AT A TIME**
· **CHARGE TIME 5 HOURS TO FULL CHARGE**

RM-WBT Replacement Battery

· **REPLACEMENT BATTERY FOR RM-WDR,
  RM-WOM, RM-WGL, AND RM-WGS**

WIRELESS SPECIFICATIONS

RM-WDR/RM-WOM - RM-WGL/RM-WGS - RM-WAP-8	
Radio Method	1.9 GHz DECT standard
Radio Frequency Range	USA/Canada: 1920.0-1930.0 MHz, Japan: 1893.5-1906.1 MHz, EU/Australia/New Zealand/Norway/UK: 1880.0-1900.0 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)

SPECIFICATIONS

	MICROPHONE SYSTEMS		RM-WDR	RM-WOM	RM-WGL	RM-WGS
General	Dimensions		89.0 (W) x 26.0 (H) x 89.0 (D) mm (including rubber foot)		89.0 (W) x 308.4 (H) x 89.0 (D) mm (including rubber feet and to center of gooseneck mic)	89.0 (W) x 171.2(H) x 89.0(D) mm (including rubber feet and to center of gooseneck mic)
	Weight		130 g (including battery)	126 g (including battery)	152 g (including battery)	140 g (including battery)
	Power Requirements		Rechargable Li-ion Battery 3.6V 2350mA/h		Rechargable Li-ion Battery 3.6V 2350mA/h	
	Maximum Power Consumption		5.0V 0.7A		5.0V 0.7A	
	Connector		USB Type-C (for battery charging) x 1, Charger I/F (4pin) x 1		USB Type-C (for battery charging) x 1, Charger I/F (4pin) x 1	
	Battery	Talk time	Approximately 20 hours (power on)		Approximately 20 hours (power on)	
		Standby Time	7 days		7 days	
		Charge Time	Full charging: 5 hours, 80% charging: 3 hours		Full charging: 5 hours, 80% charging: 3 hours	
	In Operation	Temperature	0 ℃ - 40 ℃		0 ℃ - 40 ℃	
		Humidity	20% - 85% (no condensation)		20% - 85% (no condensation)	
	In Charging	Temperature	5 ℃ - 40 ℃		5 ℃ - 40 ℃	
		Humidity	20% - 85% (no condensation)		20% - 85% (no condensation)	
	Storage	Temperature	-20 ℃ - 60 ℃		-20 ℃ - 60 ℃	
		Humidity	10% - 90% (no condensation)		10% - 90% (no condensation)	
	Indicators		Microphone indicator (3 colors) x 1, Battery indicator (3 colors) x 1		Microphone indicator (3 colors) x 1, Ring indicator (3 colors) x 1, Battery indicator (3 colors) x 1	
	Buttons		Microphone button x 1, Battery button x 1, PAIR button x 1		Microphone button x 1, Battery button x 1, PAIR button x 1	
	Accessories		Battery (RM-WBT) x 1, Owner's manual x 1		Battery (RM-WBT) x 1, Owner's manual x 1	
	Options		Replacement Battery RM-WBT		Replacement Battery RM-WBT	
	Audio I/O	Dante	1in/2out		1in/2out	
	Sampling Rate		48kHz		48kHz	
	Bit Depth		24bit		24bit	
	Latency		110 ms nominal (with signal processing in High Quality mode)		30ms - 35 ms nominal (without signal processing in High Quality mode) 110 ms nominal (with signal processing in High Quality mode)	
	Frequency Response		160Hz - 16kHz		160Hz - 16kHz	
	Maximum Input Level of SPL (0dBFS)		100.2 dB SPL	99.4 dB SPL	106.2 dB SPL	
	Self Noise		-24.7 dBA SPL	-23.0 dBA SPL	-19.3 dBA SPL	
	SN Ratio (Ref. 94dB SPL at 1kHz)		118.7 dBA	117.0 dBA	113.3 dBA	
	Sensitivity		-6.2 dBFS/Pa	-5.4 dBFS/Pa	-12.2 dBFS/Pa	
	Dynamic Range		124.9 dBA	122.4 dBA	125.5 dBA	
	Directivity		Unidirectional	Omnidirectional	Unidirectional	

SPECIFICATIONS

WIRELESS AND CHARGING SYSTEMS		8 CHANNEL WIRELESS ACCESS POINT RM-WAP-8	MICROPHONE CHARGING STATION RM-WCH-8
General	Dimensions	171.2 (W) x 42.8(H) x 172.5 (D) mm	304.0 (w) x 41.5 (H) x 188.0 (D) mm (including rubber foot)
	Weight	650g (including mounting bracket)	800g (including rubber foot)
	Power Requirements	PoE Class 3 (IEEE 802.3af)	DC IN (16V, 2.4A)
	Maximum Power Consumption	48.0V 0.2A	16.0V 2.0A
	Connector	RJ-45	DC IN 16V
	In Operation Temperature	0° C - 40° C	0° C - 40° C
	In Operation Humidity	20% - 85% (no condensation)	20% - 85% (no condensation)
	Storage Temperature	-20° C - 60° C	-20° C - 60 ° C
	Storage Humidity	10% - 90% (no condensation)	10% - 90% (no condensation)
	In Charging Temperature	-	5° C - 40° C
	In Charging Humidity	-	20% - 85% (no condensation)
	Indicators	Power indicator (3 colors) x 1, Status indicator (3 colors) x 1	ACTIVATE indicator (3 colors) x 1
	Buttons	Reset button x 1	ACTIVATE button x 1, PAIR button x 1
	Mount	Wall mount, Ceiling mount (with blacket), Flat placing	-
	Maximum Device Number with RM-CR	2	-
	Accessories	Owner's manual x 1, Mounting bracket x 1	Owner's manual x 1, AC adapter x 1, Power cable x 1 (for US)/3 (for Europe)
	Ethernet	Dante, Remote Control, Web UI, PoE	-
	Cable Requirements	CAT5e or higher (STP)	-
	Audio I/O Dante	1in/8out	-
	Signal Processing	Adaptive Echo Canceller, Noise Reduction, Dereverberation, Auto Gain Control, Parametric EQ, Output Gain Adjustment	

PRODUCT LIST

Nr.	Product Name	Description
CRMWAP8W	RM-WAP-8	Wireless Microphone Accesspoint
CRMWOMB	RM-WOM	Wireless Boundary Omni-directional Microphone
CRMWDRB	RM-WDR	Wireless Boundary Directional Microphone
CRMWGLB	RM-WGL	Wireless Gooseneck-Long Microphone
CRMWGSB	RM-WGS	Wireless Gooseneck-Short Microphone
CRMWCH8B	RM-WCH-8	Wireless Microphone Charger
CRMWBTB	RM-WBT	Replacement Battery

VISIT: europe.yamaha.com/UC