

# **RM Series Wireless Microphone System**

MICROPHONE ACCESS POINT RM-WAP-16 RM-WAP-8

WIRELESS MICROPHONE RM-WOM RM-WDR RM-WGL RM-WGS

MICROPHONE CHARGER

# Web GUI Device Manager Operation Guide

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# Introduction

This document provides details on the functions of the Web GUI "RM-W Device Manager" as well as details on using this application software to configure and operate the Yamaha RM series wireless microphone system.

In addition, this document complements the Reference Manual for the RM Series Wireless Microphone System. The Reference Manual provides comprehensive details on connecting and using the device. Be sure to read that as well.

### About this manual

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Yamaha website

U.S.A. and Canada:	Other Countries :
https://uc.yamaha.com/support/	https://download.yamaha.com/

### About the software interface

This software requires a browser application on a computer. Configure the device by specifying settings in the screens displayed in the browser.

### **Useful icons in screens**

The screens of this software have various icons that are useful for providing details on the functions and for checking the status of the device.

i	Information icon	Move the pointer to this icon to see more information about the item.
C	Reload button	Click to update the screen contents.
	Identify button	Click to cause the indicator of the corresponding device to flash.
[]	Link button	Click to go to another window for the item.

# **Applying settings specified in software screens**

Be sure to click the [SUBMIT] button after changing settings in Device Manager. The [SUBMIT] button is always in the upper-right corner of the window.

/амана	RM-WAP De	AP Device Manager				
•	¢	*	AUTO SETUP			
ADMIN CHARGER	MICROPHONE	AUDIO DECT	NETWORK REGION			
Configure administrative settings			SUBMIT			
Password Settings	^ (C)	Security Settings	^ O			
Device Management User Account Password	• []	Enable remote control acces	is []			
Deployment Server Set	tings 🔷 ^ 🖸	Syslog Settings	1 ^ 0			
Enable Deployment Server	Ī	Enable Syslog	1 1			
Enable Automatic Server Discovery	[I]	Server Address	[1]			
Primary Server	[1]	Server Port 514	1			
Secondary Server	1	·				
Provisioning interval	1440 []					

# Screen structure of Web GUI "RM-WAP Device Manager"

Refer to the page listed to the right for details on each item available in the various screens.

Menu	Tab	Item	
[HOME]			
		[System Status]	7
		[LED Indication Status]	8
		[Clock Synchronization Status]	8
		[Microphone Charger Status]	9
		[Microphone Status]	9
[SETTINGS]			
	[ADMIN]	[Password Settings]	11
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	[CHARGER]	[Chargers]	13
	[MICROPHONE]	[Microphones]	14
	[AUDIO]	[Dante Channels Setup]	19
		[DECT Audio Mode]	19
	[DECT]	[DECT]	20
		[DECT Synchronization]	21
	[NETWORK]	[Network]	22
		[Dante Network]	24
	[REGION]	[Time Settings]	25
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		[Daylight Saving Settings]	26
[TOOLS]			
	[SITE SURVEY]	[Export History]	29
		[Import History]	29
	[UPDATE]	[Firmware Update]	31
		[Upload New Firmware]	32
	[CONFIGURATION]	[Export Configuration]	33
		[Import Configuration]	33
		[Reset Defaults]	34
	[LOGS]	[Logs]	35

# [HOME]

In the [Home] screen, you can check various status information.

				KM-WAP	Devi	ce man	ager_				LOGOUT
	l l			0		×		(		P 🗘	
	нон	ИЕ									
w status o	f system and pa	ired device	S								
System Status			(	2 × ^	0	Clock	Sync	hroniz	ation S	status	^ (
Hostname:		Y001-Yama	aha-RM-W	VAP-8-a28e16		Dante:				Follower	
RFPI:		035700D8	00			DECT:				Leader	
MAC Address:		ac:44:f2:a2	:8e:16								
Model:	oress:	169.254.7.181 RM-WAP-8			Micro	phone	e Char	ger Sta	itus 🖻	^ (	
Main / Dante /	Dect Version:	1.7.12b.12	1.7.12b.125/4.2.6.4/107		Charger Name IPEI			FV	FW Status		
Senial Number: Z5K000103 Region: Japan		3			1	D1-RM-WCH-8	8-0357026748	0357	026748	~	
		Japan									
ED Ind	lication St	atus		^	0						
_ED Ind	lication St	atus	c	<b>^</b>	C						
ED Ind Power: Status:	lication St	atus	c	л ж	0						
ED Inc Power: Status: Micropł	lication St	atus	c	ж						Ľ	^ [C
ED Inc Power: Status: Vicropł Mic Mute Group	hone Statu	atus JS Identify	C	ж ж 1961	Link Quality	Audio	Dante Channel	Battery Støtus	Disconnect Time	Connect Time	FW Dpdate Status
ED Inc Power: Status: Microph Mic Mute Group	none Statu	atus JS Identify	C C Type GS	ж ж 1РЕ1 0357038250	Link Quality	Audio	Dante Channel	Battery Status	Disconnect Time	Connect Time 02:24:56 pm 01/14/2022	FW Update Status
ED Inc Power: Status: Microph Mic Mate Group	none Statu none Statu	atus JS Kentily	C C Type GS GL	ж ж ик изреј 0357098250 0337008AC8	Link Quality aDl	Audio	Dante Channel	Battery Status	Disconnect Time	Connect Time 02:24:56 pm 01/14/2022 01/14/2022	FW Update Status
ED Inc Power: Status: Microph Mic Groop 10 - 20 - 10 - 10 - 10 - 10 -	none Statu Neme 01-RM-WGS- 0357038250 02-RM-WGL- 0357008AC8 035RM-WOM- 03570026A	atus JS Kensily **	Type GS GL OM	× × × × × × × × × × × × × ×	Link Quality cDl cDl	Audio	Dante Channel 1 2 3	Battery Status 99%	Disconnect Time - -	Connect Time 0224:56 pm 01/14/2022 0224:57 pm 01/14/2022 022757 pm 01/14/2022	FW Update Status

# ① [System Status]

Displays basic information about the access point.

System Status	r * ~ 0
Hostname:	Y001-Yamaha-RM-WAP-8-a28e16
RFPI:	035700D800
MAC Address:	ac:44:f2:a2:8e:16
Network IP Address:	169.254.7.181
Model:	RM-WAP-8
Main / Dante / Dect Version:	1.7.12b.125 / 4.2.6.4 / 107
Serial Number:	Z6K000103
Region:	Japan

Item	Description
Hostname	Displays the hostname.
RFPI	Displays the identification number of the access point for DECT communication. RFPI (Radio Fixed Part Identity)

[HOME]

MAC Address	Displays the MAC address.
Network IP Address	Displays the network IP address.
Model	Displays the model name.
Main / Dante / Dect Version	Displays the versions of the device/Dante/DECT.
Serial Number	Displays the serial number.
Region	Displays the country or region where this unit can be used.

# ② [LED Indication Status]

Displays the status of the access point indicators.



Item	Indication	Unit status
Power	"OK" (green)	Operating
Status	"OK" (white)	Normal status
	"Firmware Updating" (white)	Firmware being updated
	"Pairing" (blue)	Pairing standby/Pairing
	"Identify" (red)	Responding to Identify function

# ③ [Clock Synchronization Status]



Item	Description
Dante	Displays the status of the Dante word clock.
	• [Leader]
	• [Follower]
	If there is an abnormality in the word clock, this appears in orange.
DECT	Displays the status of the DECT frame synchronization.
	• [Leader]
	• [Follower]

When multiple access points are set up in the same group, one will be the "Leader" and the others will be "Follower". The access point group settings can be specified via [SETTINGS] > [DECT] > [DECT Synchronization].

# ④ [Microphone Charger Status]

Displays the charger name.

Mic	crophone Charge	er Status	Ľ	^ (C)
	Charger Name	IPEI	FW	Status
1	01-RM-WCH-8-0357026748	0357026748		~

Item	Description
Charger Name	Displays the charger name.
IPEI	Identification number of the DECT module IPEI (International Portable Equipment Identity)
FW Status	Displays the firmware update status. If the firmware must be updated, Cappears. Update the firmware via [TOOLS] > [UPDATE] > [Firmware Update].

### (5) [Microphone Status]

Displays the statuses of the microphones.

Mici	ropho	one Statu	IS									^ (C
Mic	Mute Group	Name	Identify	Туре	IPEI	Link Quality	Audio	Dante Channel	Battery Status	Disconnect Time	Connect Time	FW Update Status
1		01-RM-WGS- 035703B250		GS	035703B250	DO		1		-	02:24:56 pm 01/14/2022	~
2		02-RM-WGL- 035700BAC8		GL	035700BAC8	a00		2		-	02:24:59 pm 01/14/2022	~
3	÷	03-RM-WOM- 035700D2E0	*	OM	035700D2E0	al	×.	3	99%	-	02:27:57 pm 01/14/2022	~
4	-	04-RM-WDR- 035700D6B8		DR	035700D6B8	al	Ŷ	4	100%	-	02:27:52 pm 01/14/2022	~

Item	Description
Mic	Displays the microphone number.
Mute Group	Displays the group number used for the group mute function of the microphones.
Name	Displays the microphone name. The microphone name can be changed via [SETTINGS] > [MICROPHONE] > [Microphone Name].
Туре	Displays the microphone type. • "OM": Omnidirectional • "DR": Directional

	<ul> <li>"GL": Gooseneck (long)</li> </ul>
	• "GS": Gooseneck (short)
IPEI	Identification number of the DECT module IPEI (International Portable Equipment Identity)
Link Quality	Displays the strength of the radio wave as one of four levels indicated by the number of bars. 3 green bars: Signal strength of -50 dBm or more 2 orange bars: Signal strength of -70 dBm to -50 dBm 1 orange bar: Signal strength of -70 dBm or less 0 white bars: Disconnected
Audio	Click the icon to turn on/off the microphone.
Dante Channel	Displays the Dante channel.
Battery Status	Indicates the remaining charge of the battery by a percentage and a color. Red: 3% to 10%, 1 to 3 hours Yellow: 10% to 50%, 3 to 15 hours Green: 50% or more, 15 hours or more
Disconnect Time	Displays the time at which the microphone and access point were disconnected.
Connect Time	Displays the time at which the microphone and access point were connected.
FW Update Status	Displays the firmware update status. If the firmware must be updated, $\bigcirc$ appears. Update the firmware via [TOOLS] > [UPDATE] > [Firmware Update].

# [SETTINGS]

# [ADMIN]

AMAHA RM-WAP Device Manager 🗤				
<b>A</b>	Ö	×	AUTO SETUP 🔅	
	SETTINGS			
ADMIN CHARGER	MICROPHONE	AUDIO DECT	NETWORK	REGI
Configure administrative settings				
Password Settings	^ O	Security Settin	ngs	^
Device Management User Account Password	• [ <i>i</i> ]	Enable remote contro	ol access	
Deployment Server Set	tings 🛛 ^ 🖸	Syslog Setting	js	^
Enable Deployment Server	[7]	Enable Syslog		
Enable Automatic Server Discovery	[]	Server Address		
Primary Server	[]	Server Port 514		
Secondary Server	[]			
Provisioning interval	1440 min [ <i>i</i> ]			

In the [ADMIN] screen, you can specify system administration settings.

### ① [Password Settings]



### ③ [Deployment Server Settings]

By using a deployment server, the device configuration file can be automatically acquired and applied to the device.



Item	Description
Enable deployment server	Select whether to use a deployment server. Default setting: Activated
Enable automatic server discovery	Select whether to use the automatic discovery feature of the deployment server. When this is not activated, specify the IP address of the deployment server.
	<ul> <li>[Primary server]</li> <li>[Secondary server]</li> <li>Default setting: Activated</li> </ul>
Provisioning interval	Specify the deployment server provisioning interval (in minutes). Default setting: 1,440 minutes (1 day) Setting range: 0 to 44,640 minutes (31 days)

### (4) [Syslog Settings]

Syslog Settings	~ O
Enable Syslog	i
Server Address	i
Server Port	

#### Item

**Enable Syslog** 

#### Description

Select whether to use a syslog server. When this is activated, specify settings for the following.

- [Server Address]
- [Server Port] (Default setting: 514)

# [CHARGER]

In the [CHARGER] screen, you can pair and connect the access point and charger.



# ① [Chargers]

		PAIR NEW [
01-RM-WCH-8-03	57026748 🖍	<ul> <li> </li> </ul>
1	Charger not connected.	
m	Description	

PAIR NEW	Click to put the access point in pairing standby mode. Then, long-press the PAIR button (on the bottom panel of the charger) for at least 2 seconds to pair. When pairing is finished, the charger name appears in the screen.
Charger name	Specify the name of the charger. To change the name of the charger, click $\checkmark$ .
[0] / [•]	<ul> <li>Click to change the connection status of the charger.</li> <li>[○]: Disconnect</li> <li>[●]: Connect</li> </ul>
1	Click to cancel pairing of the charger.

# [MICROPHONE]

In the [MICROPHONE] screen, you can pair the access point and microphones.

(AMAHA		RM-WAP [	Jevice Manag	jer		годолт 🗗
	A		*		AUTO SETUP 🔅	
ADMIN	CHARGER	MICROPHONE	AUDIO	DECT	NETWORK	REGION
onfigure micro	phone settings					
Micropho	ones				PAIR NEW	<i>i</i> ^ 0
All micropho	nes					~
01-RM-WDR-	035700D6B8				🔵 💸 💿 🐯 Fader: 0	dB 🗸
02-RM-WOM	-035700D2E0				🔵 🔖 💿 🐯 Fader: 0	dB 🗸
03-RM-WGS-	035703B250				🔵 💸 💿 🔞 Fader. 0	dB 🗸
04-RM-WGL-	035700BAC8				● 🎖 () 行 Fader: 0	dB 🗸

# ① [Microphones]

• Allows you to pair the access point and microphones.

Microphones	PAIR NEW i ^ O
All microphones	×
01-RM-WDR-035700D6B8	🔵 🔖 💽 🔞 Fader: 0 dB 🗸 🗸
02-RM-WOM-035700D2E0	🔵 🧏 💽 🚺 Fader: 0 dB 🗸
03-RM-WGS-035703B250	🔵 🔖 💽 🔞 Fader: 0 dB 🗸
04-RM-WGL-035700BAC8	🔵 👯 💽 🔞 Fader: 0 dB 🗸

Item	Description
PAIR NEW	Click to put the access point in pairing standby mode. Then, long-press the PAIR button (on the bottom panel of the microphone) for at least 2 seconds to pair. When pairing is finished, the microphone name appears in the screen.
Start Mode	Displays the start mode of the microphone after removing it from the charger or after installing the battery.  Starts up in Start Up mode. Starts up in Standby mode.
Start Mute Mode	Displays the mute mode that the microphone enters after it has established a wireless connection with RM-WAP. Set The microphone starts up with the mode turned off. : The microphone starts up with the mode turned on.
Mic Button Behavior	Displays the operation of the Mic button. <ul> <li>The Mic button operates in Toggle mode.</li> </ul>

	Touch the Mic button to turn the microphone on/off.
	The Mic button operates in Push to talk mode. The microphone is on while the Mic button is touched. Multiple devices cannot be used to talk at the same time.
	<ul> <li>The Mic button is deactivated.</li> <li>Operation of the Mic button is deactivated.</li> </ul>
Alarm when out of area	Displays the setting that confirms (by the flashing Mic indicator) that the microphone is out of range for a DECT connection.
	🔞: The alarm when out of range for DECT connection is on.
	0: The alarm when out of range for DECT connection is off.
Fader Level	Displays the microphone fader level. Setting range: -128dB to +12dB

• Click a row containing the name of a microphone to expand the settings section.

										=
Microphone Name										
01-RM-WDR-035700D6	88									 
Group:	NONE	1	2	3	4	5	б	7	8	
Start Mode:		ST	ART UP	STANDBY						
Start Mute Mode:		М	UTE ON	MUTE OF	Ŧ					
Vic Button Behavior:		то	GGLE	PUSH TO T	ALK	DISABLE				
Alarm when out	of area									
Basic Audio Settings										
ader Level:										 — o
High Pass Filter None										•
Deve Filter										

• Allows you to check/change microphone settings.

Item	Description
Microphone Name	Specify the microphone name.
Group	Allows you to group the microphones. When grouped, all microphones with the same group number are synchronized with the one turned on/off. To use the group mute function in an environment where the RM-CR is also used, select [SETTINGS] > [Peripheral] > [DEVICE SETTINGS] > [Enable microphone group mute control] on RM-CR. As a default, this function is deactivated.
Start Mode	Select the start mode of the microphone after removing it from the charger or after installing the battery.

### [SETTINGS]

	• [START UP] • [STANDBY]
Start Mute Mode	Select the mute mode that the microphone enters after it has established a wireless connection with RM-WAP.
	• [MUTE ON]
	• [MUTE OFF]
Mic Button Behavior	Select the operation of the Mic button.
	• [TOGGLE]
	<ul> <li>[PUSH TO TALK] (only with RM-WGL/RM-WGS)</li> </ul>
	• [DISABLE]
Alarm when out of area	Select whether the Mic indicator flashes to indicate that the microphone is out of range for a DECT connection.
Fader Level	Specify the microphone fader level. Setting range: -128 dB to +12 dB
High Pass Filter	Select the High Pass filter setting. [None / 110 Hz / 140 Hz / 175 Hz / 225 Hz]
Low Pass Filter	Select the Low Pass filter setting. [None / 4 kHz / 8 kHz / 12 kHz]
Î	Click to cancel pairing.

Low Latency	1
Advanced Audio Settings	
Input Gain	
High (120b)	
Adaptive Echo Canceller	
Medium	- []
Noise Reduction	
Medium	· [/
Dereverberation	_
Medium	i
AGC Tune	
Hard	• [i
Hard	•
AGC Speed	L
Fast	- []

Item	Description
Low Latency	<ul> <li>When [Low Latency] is activated, processing of the following Advanced Audio Settings can be bypassed to reduce audio delay.</li> <li>Input Gain, Adaptive Echo Canceller, Noise Reduction, Dereverberation, AGC and PEQ</li> <li>When this device is used in combination with RM-CR, deactivate [Low Latency].</li> <li>Default setting: Deactivated</li> </ul>

Input Gain	Select the microphone input gain. [Off (0 dB) / Low (6 dB) / Medium (12 dB) / High (18 dB)]
Adaptive Echo Canceller	This function eliminates constant noise, such as air conditioning or echoes from loudspeakers or from wall reflections, which are problematic during remote conferences. Select the strength of the echo canceller.
	<ul> <li>[Off]: The echo canceller is not used.</li> <li>[Low]: Suppresses echo while maintaining the quality of the original audio.</li> <li>[Medium] (default setting): This setting provides a good balance between sound quality and echo cancellation strength.</li> <li>[High]: Applies a strong echo canceller. Select this for rooms with long reverberation times or rooms where echoes are likely to occur.</li> </ul>
Noise Reduction	<ul> <li>Select the noise reduction strength for stationary noise.</li> <li>[Off]: Noise reduction is not used.</li> <li>[Low]: Suppresses stationary noise while maintaining the quality of the original audio.</li> <li>[Medium] (default setting): This setting provides a good balance between sound quality and noise reduction strength.</li> <li>[High]: Applies strong noise reduction. Select this for a room with stationary noise from a large fan or air conditioning system.</li> </ul>
Dereverberation	<ul> <li>This function removes reverberation components from audio in order to make the audio clearer. Select the strength of the removal of reverberation components.</li> <li>[Off]: Dereverberation is not used.</li> <li>[Low]: Select this for a room with short reverberation times.</li> <li>[Medium] (default setting): This setting can be used in normal environments. This setting provides a good balance between sound quality and dereverberation strength.</li> <li>[High]: Applies strong dereverberation. Select this for rooms with long reverberation times, such as rooms with glass walls.</li> </ul>
AGC Type	AGC (Auto Gain Control) is a function that automatically adjusts the output gain in order to stabilize the audio level. It increases the volume level of soft voices and decreases the volume of excessively loud voices. Select the AGC strength.

• [Off]:

AGC is not used.

- [Low] (default setting):
  - This setting provides well-balanced volume changes.
- [High]:

Applies strong AGC.

AGC Speed

Select the reaction speed for AGC volume changes.

- [Low] (default setting):
  - This setting provides well-balanced reaction speeds.
- [High]:

Responds quickly to volume variations.



ItemDescriptionEnable PEQSelect whether to activate PEQ (Parametric EQ). This is applied when<br/>another processor than RM-CR is used.Band / Type / Q / Frequency /<br/>Gain / BypassSpecify PEQ settings for each of the six bands.<br/>For [Type] under "Band A" or "Band F", select one of the following:<br/>PEQ, L.SHELF-6 dB/Oct, L.SHELF-12 dB/Oct, H.SHELF-6 dB/Oct,<br/>H.SHELF-12 dB/Oct, HPF, LPF.

In the [AUDIO] screen, you can specify the Dante channel assignment for the microphones as well as the DECT audio quality mode.

AMAMA		RM-WAP	Device Mana	ger		LOGOUT 🖻
	A	0	×		АИТО SETUP	
		SETTINGS				
ADMIN	CHARGER	MICROPHONE	AUDIO	DECT	NETWORK	REGION
Configure audio	network settings					SUBMI
Dante Ch	annels Setup	D				<i>i</i> ^ 0
Channe	(	Name				Туре
(1)		01-RM-WDR-0357	00D6B8			DR
(1)	1	01-RM-WDR-0357 02-RM-WOM-035	00D6B8 700D2E0			DR OM
(1) (2) (3)		01-RM-WDR-0357 02-RM-WOM-035 03-RM-WGS-0357	00D688 700D2E0 103B250			DR OM GS
(1) (2) (3) (4)		01-RM-WDR-0357 02-RM-WOM-035 03-RM-WGS-0357 04-RM-WGL-0357	00D688 700D2E0 038250 00BAC8			DR OM GS GL
(1) (2) (3) (4) (5)		01-RM-WDR-0357 02-RM-WOM-035 03-RM-WGS-0357 04-RM-WGL-0357	00D6B8 700D2E0 03B250 00BAC8			DR OM GS GL
1 (2) (3) (4) (5) (6)		01-RM-WDR-0357 02-RM-WOM-035 03-RM-WGS-0357 04-RM-WGL-0357	00D688 700D2E0 038250 00BAC8			DR OM GS GL
(1) (2) (3) (4) (5) (6) (7)		01-RM-WDR-0357 02-RM-WOM-035 03-RM-WGS-0357 04-RM-WGL-0357	000688 70002E0 038250 008AC8			DR OM GS GL
(1) (2) (3) (4) (5) (6) (7) (8)		01-RM-WDR-0357 02-RM-WOM-035 03-RM-WGS-0357 04-RM-WGL-0357	000689 70002E0 0088250 008AC8			DR OM GS GL
1) 2 3) 4 5 6 7 7 8		01-RM-WDR-0357 02-RM-WOM-035 08-RM-WGS-0357 04-RM-WGL-0357	000688 7000220 038250 008AC8			DR OM GS GL

# ① [Dante Channels Setup]

Dante Channe	els Setup	)	<i>i</i> ^ O
Channel		Name	Туре
1	1	01-RM-WDR-035700D6B8	DR
2	8	02-RM-WOM-035700D2E0	ОМ
3	1	03-RM-WGS-035703B250	GS
4	1	04-RM-WGL-035700BAC8	GL
5	1		
6	1		
7	1		
8	1		
	1		

Allows you to check the Dante channel assigned to each microphone.

To change the channel assignment, drag the microphone name to the row of the desired Dante channel.

② [DECT A	Audio	Mode]			
DECT Audio M	Mode:	HIGH DENSITY	HIGH QUALITY	ī	

Allows you to set the access point to High Density mode or High Quality mode.

High Quality mode has better audio quality than High Density mode, but the maximum number of microphones that can be used may be limited.

# [DECT]

In the [DECT] screen, you can specify DECT communication settings.

®YAMAHA		RM-WAP	RM-WAP Device Manager					
	A		×		AUTO SETUP 🔅			
ADMIN	CHARGER	MICROPHONE	AUDIO	DECT	NETWORK	REGION		
Configure DECT	settings					SUBMIT		
DECT						^ (C)		
RF Power Levels:	FULL HIG	H MEDIUM LOW				[]		
PHS Detect	ion Auto					[]		
DECT Synd	chronization							
C Enable DEC	T Synchronization					[1]		
Synchronization group [	1-10]							

# ① [DECT]

DECT				
RF Power Levels:	FULL	HIGH	MEDIUM	LOW
	A			

Item	Description
RF Power Levels	Select the signal strength. The specified distance is the approximate maximum communication distance. It may vary depending on your environment.
	<ul> <li>[FULL] : 63.9m</li> <li>[HIGH] : 29.6m</li> <li>[MEDIUM] : 13.7m</li> <li>[LOW] : 6.34m</li> </ul>
PHS Detection Auto	Select whether to detect PHS automatically. When this is activated, RM-WAP will use carriers 3 and 4 for the microphone system unless PHS is detected. When this is deactivated, RM-WAP will not use carriers 3 and 4, which may be used by PHS systems.

# ② [DECT Synchronization]

DECT Synchronization	
DECT Synchronization	i
ynchronization group [1-10]	

Item	Description
Enable DECT Synchronization	Select whether to synchronize the DECT frame across multiple access points. Synchronization optimizes the number of available DECT channels and reduces DECT interference between grouped systems. To synchronize, activate this, and then put all devices to be synchronized into the same group below "Synchronization group".

In the [NETWORK] screen, you can specify settings for the network used by this unit.

YAMAHA	RM-WAP	RM-WAP Device Manager					
A	٢		*				
ADMIN CHARGER	MICROPHONE		AUDIO	DECT	NETWORK	REGION	
onfigure network settings						SUBMIT	
Network						^ (O	
IP Address Settings			AP Na	me Settings			
Enable DHCP		i	Mode:	NAME USING U	NIT ID MANUAL	[ <i>i</i> ]	
IP Address		i	1			1	
Subnet Mask		i	<sup>AP</sup> Name Yamaha-R	M-WAP-16		i	
Default Gateway		1					
Primary DNS		<i>i</i>					
Secondary DNS		1					
Dante Network						^ O	
IP Address Settings							
		-					

### ① [Network] - [IP Address Settings]

Network	
IP Address Settings	
Enable DHCP	i
IP Address	i
Subnet Mask	i
Default Gateway	i
Primary DNS	i
Secondary DNS	i

Item

#### Enable DHCP

#### Description

Select whether to use DHCP. When this is activated, the IP address is specified in Auto IP mode if there is no DHCP server. If settings have been incorrectly specified, press the Reset button on the front of the RM-WAP to reset the network-related settings.

To assign a static IP address, deactivate [Enable DHCP], and then specify the static IP address with the following. (Type using the "XXX.XXX.XXX.XXX.XXX" format.)

- [IP address]
- [Subnet mask]

- [Default gateway]
- [Primary DNS]
- [Secondary DNS]

# ② [Network] - [AP Name Settings]

Allows you to select whether to specify the hostname of this unit automatically or manually. The hostname is used as the device name in RM Device Finder, SNMP, and Dante.

AP Na	me Settings	
Mode:	NAME USING UNIT ID MANUAL	i
Unit ID 1		i
AP Name Yamaha-F	M-WAP-16	i

Item	Description
Mode	Select whether to use the unit ID to automatically specify the hostname or to specify it manually.
	<ul> <li>[NAME USING UNIT ID] (automatic): The hostname is automatically generated from the unit ID, model name and part of the MAC address. The generated hostname can be viewed via [HOME] &gt; [System Status].</li> <li>Example: Y001-Yamaha-RM-WAP-16-a28fca</li> <li>[MANUAL]: Specify manually. Type in the [AP Name] field.</li> </ul>
Unit ID	Specify the unit ID. Type single-byte hexadecimal characters. If [Manual] was selected, this is not available.
AP Name	If [NAME USING UNIT ID] was selected, the hostname that was automatically generated is displayed. If [MANUAL] was selected, type in the hostname. The Dante hostname will be the hostname plus a portion of the Dante MAC address.

### ③ [Dante Network] - [IP Address Settings]

Allows you to specify settings for the network using Dante.



#### Item

**Enable DHCP** 

#### Description

Select whether to use DHCP.

To assign a static IP address, deactivate [Enable DHCP], and then specify the static IP address with the following. (Type using the "XXX.XXX.XXX.XXX.XXX" format.)

- [IP address]
- [Subnet mask]
- [Default gateway]
- [Primary DNS]

In the [REGION] screen, you can specify settings for the time and region where this unit is used.

YAMAHA RM-WAP Dev		vice Manag	jer				LOGOUT 🗗				
A	0	×		лите	D SETUP 🙆						
	SETTINGS			_	_	_					
ADMIN CHARGER MICH	ROPHONE	AUDIO	DECT		NETWORK			REGIC	N		
onfigure region settings											
Time Settings	~ O	Locale	è					^	0		
urrent Date & Time □ 09/13/2023 ③ 04:13:48 PM		System Langua English (US	ige 5)						Ŧ		
09/13/2023     04:13:48 PM		Time Zone +09:00 Tok	cyo (UTC+09:	00)				¥	i		
Date Format MM/dd/yyyy	*	{} lang filo	D								
D Enable 24 hour time format									RT		
NTP Support	i	Daylig	ht Savir	ng Sett	ings			^	0		
Network Time Server 1	[ <i>i</i> ]	Enabl	le Daylight Sa	ving Time /	\djustment				i		
Network Time Server 2	i	Daylight Sav	ing Time start o	late							
Network Time Server 3	i	Month January	week 👻 First	~	<sub>Day</sub> Sunday	٣	Time 00	¥	i		
Network Time Server 4		Daylight Sav	ing Time end da	ste							
		Month January	week ≠ First	÷	<sub>Day</sub> Sunday	~	Time 00····	×	i		

# ① [Time Settings]

Time Settings		∧ (C)
Current Date & Time Date 09/13/2023	Time 04:13:48 PM	_
Date Format MM/dd/yyyy		<b>~</b>
D Enable 24 hour time fo	ormat	
NTP Support		i
Network Time Server 1		i
Network Time Server 2		i
Network Time Server 3		i
Network Time Server 4		i

Item	Description
Current Date&Time	Specify the date and time.
Date Format	Select the date format.

#### Enable 24 hour time format

#### **NTP Support**

Select whether to use the 24-hour format.

Select whether to use NTP (Network Time Protocol). When this is activated, specify a URL for [Network Time Server]. NTP allows you to obtain accurate time over the Internet. This time is used for log data and is useful when managing, monitoring and troubleshooting the system. Default setting: Activated

### 2 [Locale]

Locale	~ (C)
System Language English (US)	·
Time Zone +09:00 Tokyo (UTC+09:00)	• i
{} lang file	
	IMPORT

Item	Description
System Language	When the mouse pointer is moved to the information icon, a pop-up window gives detailed information about the item. Select the display language. The default setting is [English (US)]. This setting can be changed to [Custom]. For [Custom], the language file must be imported with [{} lang file].
	<ul><li>English (US)</li><li>Custom</li></ul>
Time zone	Select the time zone.
{} lang file	Imports the language file for the language of the information displayed with the information icon.

### ③ [Daylight Saving Settings]



Item	Description
Enable Daylight Saving Time Adjustment	Select whether to use daylight saving time with this unit. When this is activated, specify settings for the daylight saving time start and end dates and times. Default setting: Deactivated

# [TOOLS]

# [SITE SURVEY]

Click the [START] button, and the access point will measure the signal strength in the installation environment as well as the channel usage status.

тамана	RM-WAP Devi	ce Manager	LOGOUT
A	0		TUP 🔕
SITE SURVEY	UPDATE	CONFIGURATION	LOGS
)iscover wireless traffic in the DECT	frequencies and estimate the ava	ailable DECT channels	
RSSI SCAN MODE SYSTEM LIST MOD	DE		
START Please note: Audio connect	tions to Microphones are disconned	cted during the Site Survey.	
econd duration (hours) 68 SSI SCAN MODE meassures the wireles	s utilization status of the DECT freque	encies and estimate how many additional m	nicrophones might be added in
exed duration (rears) 68 SSI SCAN MODE meassures the wireles he vicinity. For a most reliable estimate, is recommended to run the scan over nd time slots used for DECT communica nicrophone disconnections, ensure that Support Unictors;	s utilization status of the DECT freque please ensure that all wireless micro everal hours and during typical use to tion between RM-WAP and wireless is enough free channels are available w	encies and estimate how many additional m phones and other DECT devices in the vicin times of the microphones to advice the m microphones change during operations. To then determining how many additional micro	nicrophones might be added in ity are switched on and active sta acurate result. Frequency prevent unexpected audio loss ophones can be added.
exercited datasetion (tears) 68 ISSI SCAN MODE meassures the wireless he vicinity. For a most reliable estimate, its recommended to run the scan over a nd time slots used for DECT communica nicrophone disconnections, ensure that of Export History	s utilization status of the DECT freque please ensure that all wireless micro everal hours and during typical use t tion between RM-WAP and wireless i enough free channels are available w	encices and estimate how many additional n sphones and other DECT devices in the vicin times of the microphones to achieve the mic microphones change during operations. To then determining how many additional micro Import History	Interophones might be added in ity are switched on and active st accurate result. Frequency prevent unexpected audio loss ophones can be added.
exed deader (rears) 68 SSI SCAN MODE meassures the wireless is recommended to run the scan over s nd time slots used for DECC communica icrophone disconnections, ensure that of Export History 8 Sept 2023, 13:43	s utilization status of the DECT froqu please ensure that all wireless micro several hours and during typical use t tion between RM-WAP and wireless i enough free channels are available w	encies and estimate how many additional in pohones and other DECT devices in the vicin times of the microphones to achieve the run microphones change during operations. To inhen determining how many additional micro Import History	hicrophones might be added in hity are switched on and active st accurate result. Frequency prevent unexpected audio loss ophones can be added.

#### Notice

If radio frequency interference occurs, there may be no sound from the microphones or the microphone connection may be unexpectedly cut. We recommend thoroughly examining the environment before installation.

#### Note

For details on reading the [SITE SURVEY] screen, refer to "Understanding the [SITE SURVEY] Window" in the Reference Manual for the RM Series Wireless Microphone System.

#### [TOOLS]

#### Importing and exporting the SITE SURVEY results

The SITE SURVEY results can be saved to a file, and the saved file can be imported and displayed.

Export History ^	Import History ^
8 Sept 2023, 13:43	Survey csv file
EXPORT HISTORY	IMPORT HISTORY

# ① [Export History]

#### Allows you to save the SITE SURVEY results to a file.

Item	Description
EXPORT HISTORY	Saves the SITE SURVEY results to a file at the destination that is
	specified.

# 2 [Import History]

Allows you to import the SITE SURVEY results file.

Item	Description
X	Select a SITE SURVEY results file.
IMPORT HISTORY	Imports the selected SITE SURVEY results file. The SITE SURVEY results appear.

# [UPDATE]

In the [UPDATE] screen, you can update the firmware of access points, microphones and chargers.

The firmware for the charger and for the microphones is included in the access point firmware. Update the firmware of the access point first ([Upload New Firmware]).

#### Note

• Be sure to click the [TURN ON FWU MODE] button before updating the firmware.

® YAMAHA		RM-WAP Dev	vice Manager	LOGOUT 🗗
	A	0		up ()
SITE SURVEY		UPDATE	CONFIGURATION	LOGS
Update firmware of RM	M-WAP, wireless mi	crophones and microphone	chargers	1 UPDATE ALL . O

• Be sure to click the [TURN OFF FWU MODE] button after updating the firmware.

YAMAHA RM-WAP Devi		LOGOUT 🗗
٥		UTO SETUP 🔅
UPDATE	CONFIGURATION	LOGS
nicrophones and microphon	e chargers	<b> </b>
e. Audio is not available. Turn off Firmw	are update mode to have audio.	TURN OFF FWU MODE
	UPDATE Dicrophones and microphon	CONFIGURATION  CONFIGURATION  CONFIGURATION  CONFIGURATION  Addo is not exclude: Tum off Permane update mode to have suda.

#### [TOOLS]

amaha	RM-WAP De	vice Manager	LOGOUT 🖯
	n o	×	SETUP Q
SITE SURVEY	UPDATE	CONFIGURATION	LOGS
odate firmware of RM-WAP	wireless microphones and microp	hone chargers	
Firmware Update	e		∲UPDATE ALL ^ ♥
The system is currently in Firmwa	re update mode. Audio is not available. Turn off f	irmware update mode to have audio.	TURN OFF FWU MODE
Chargers	Required version: 110	Microphones	Required version: 110
<ul> <li>01-RM-WCH-8-035702</li> </ul>	26748	✓ 01-RM-WDR-03570	0D6B8
	<b>Ŷ</b> UPDATE ALL	✓ 02-RM-WOM-03570	00D2E0
		✓ 03-RM-WGS-03570	3B250
		✓ 04-RM-WGL-03570	OBAC8
Jpload New Firn	nware		^
	DOWNLOAD EROM DERLOYMENT CERVEL		
UPLOAD FIRMWARE FILES	DOWNLOAD FROM DEPLOYMENT SERVER	2	
UPLOAD FIRMWARE FILES	DOWNLOAD FROM DEPLOYMENT SERVER	2	
UPLOAD FIRMWARE FILES File input Vhen to start the update Date 12/02/2021	DOWNLOAD FROM DEPLOYMENT SERVE	° ∑ <sup>T==e</sup> 0 03:12:55 PM	

### ① [Firmware Update]

Allows you to update the firmware of the charger and microphones.

The system is currently in Firr	mware update mode. Audio is not available. Turn off Firm	nware update mode to have audio.	TURN OFF FWU MODE
Chargers	Required version: 110	Microphones	Required version: 11
✓ 01-RM-WCH-8-03570	57026748	✓ 01-RM-WDR-035700D	6B8
	<b>↑</b> UPDATE ALL	✓ 02-RM-WOM-035700D	2E0
		✓ 03-RM-WGS-035703B	250
		✓ 04-RM-WGL-035700B/	AC8

Item

#### Description

UPDATE ALL

Click to update the firmware of the charger and microphones. Before the firmware of the charger and microphones can be updated, they must be paired with the access point. For details on pairing, refer to pages 13 and 14.

# 2 [Upload New Firmware]

Allows you to update the firmware of the access point.

Up	load New Firr	nware				^
UP	LOAD FIRMWARE FILES	DOWNLOAD FROM DEPLOYMENT SERVER				
₽ F	File input					
When	to start the update					
1	Date 2/02/2021		0	Time 03:12:55 PM		
-	Schedule the update later				SCHEDULE UPDATE	UPLOAD & UPDATE AP

Item	Description
UPLOAD FIRMWARE FILES	Any firmware can be used in this mode. Click  ("File input" icon), and then select any firmware. Alternatively, you can drag the firmware directly to the underlined area. To perform the update, click the [UPLOAD & UPDATE AP] button.
DOWNLOAD FROM DEPLOYMENT SERVER	Firmware downloaded from the deployment server is used in this mode. Click the [CHECK NOW] button to check if firmware is available. To perform the update, click the [UPDATE AP] button.
Schedule the update later	Select whether the update will be performed automatically at a specified time. Specify the date and time to start the update, and then click the [SCHEDULE UPDATE] button.

### [CONFIGURATION]

In the [CONFIGURATION] screen, you can export, import or reset the settings of this unit.

(AMAHA	RM-WAP Dev	vice Manager	LOGOUT
A	٥		0
SITE SURVEY	UPDATE	CONFIGURATION	LOGS
port and export configuration Export Configuration Export device configuration to an XML file. This w to assume the	nil export all settings except	Import Configuration	^
	EXPORT CONFIGURATION		MPORT CONFIGURATION
Reset Defaults			^
Audio Settings		Network Settings	
Dect Settings		Restore All Defaults	
			RESET DEFAULTS

### ① [Export Configuration]

Export Configuration	^
Export device configuration to an XML file. This will export all settings except the passwords.	
	EXPORT CONFIGURATION

#### Item

#### Description

EXPORT CONFIGURATION

Click to export the settings of this unit.

### ② [Import Configuration]

Import Configuration	^
	IMPORT CONFIGURATION

#### Item

IMPORT CONFIGURATION

#### Description

Click to import the settings of this unit. Click  $\langle \rangle$  to select a configuration file, and then click the [IMPORT CONFIGURATION] button. Note:

- Create the configuration file to be imported, by editing the one exported in .
- Alternatively, you can drag the configuration file to the underlined area.

# ③ [Reset Defaults]

em		Description		
				RESET DEFAULTS
	Dect Settings		Restore All Defaults	
	Audio Settings		Network Settings	
	Reset Defaults			^

Click to reset settings.

- [Audio Settings]: Resets the audio settings.
- [Dect Settings]: Resets the DECT settings.
- [Network Settings]: Resets the network settings.
- [Restore All Defaults]: Restores the factory default settings.

#### Notice

Confirm the settings to be reset before performing this operation.

# [LOGS]

#### In the [LOGS] screen, you can download logs.

TOOLS CONFIGURATION LOGS
CONFIGURATION LOGS

# ① [Logs]

Logs	^
	DOWNLOAD LOGS
Item	Description
DOWNLOAD LOGS	Click to download the logs. Logs record errors, warnings and actions.
	Note: For explanations on alert logs and recommended solutions, refe

to "Alert log list" in the Reference Manual.

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