Automated Remote Messaging

ARM-911A/TTS
RM-911D
RM-911W

interM

AUTOMATED REMOTE MESSAGING

Desktop Type

Wall-Mount Type

The ARM-911A/TTS responds to public address requirements and Voice Alarm Messaging for small to medium installations. The ARM-911A/TTS is a high performance highly versatile stand-alone automated remote messaging controller. This unit is an ideal add on to any existing or new installation PA system and useful to easily initiate code blue paging or lockdown procedures.

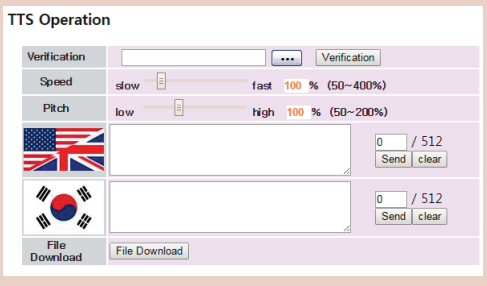
Up to 4 remote microphones can be connected to the ARM-911A/TTS. The microphone can be used for live instant voice messaging. 10 buttons on the microphone station are used to activate any messages. A telephone paging input allows the ARM-911A/TTS to be connected to the paging port of a PBX for live telephone paging and message triggering.

Each input is fitted with volume controls, High pass filter, equalizers and user programmable input priority settings. 2 auxiliary inputs allow connection to a cordless microphone, background music source or receiving audio from other emergency messaging devices such as fire alarm panels. Ten contact closure or alarm inputs make it possible to obtain external trigger and broadcast pre-programmed message from any remote devices.

A built in programmable timer allows for scheduled payback of any of the 10 recorded message and other web-browser control panel up-loadable files. The ARM-911A/TTS can also be used for both electronic School bell and automated message playing.

*ARM-911A-TTS : This is the ARM-911A with the additional feature of TTS Technology.

The Text-To-Speech Technology automatically converts the message you want to broadcast. The messages can be entered directly from the web through the broadcast settings menu.



ARM-911A/TTS Automated Remote Messaging

The ARM-911A/TTS is a DSP based audio digital signal processing audio mixer and a digital message player. Up to 4 remote paging stations can be connected to the ARM-911A/TTS. The ARM-911A/TTS can accept independent audio inputs from a telephone paging port, and two (mic/line) auxiliary or BGM input sources. The output is balance audio on a 3 position eurobloc connector. The audio output is variable and features a pad selector with level from -50dB, -10dB and +4dB making interfacing to any type of audio inputs on mixers and amplifiers.
Each input is fitted with volume controls and equalizers. All audio inputs features VOX activation and priority override according to user programmable settings (ideal when using a cordless microphone, or receiving audio from other emergency messaging devices such as fire alarm panels) Ten monitored contact closure or alarm inputs making it possible to obtain trigger and broadcast preprogrammed message from any remote devices.
A built in programmable timer allows for scheduled payback of any of the 10 recorded message and other web-browser control panel up-loadable files. The ARM-911A/TTS can also be used for either electronic School bell or automated message playing.

Remote Microphone Station

Up to 4 remote microphones can be connected to the ARM-911A/TTS. The microphone can be used for live instant voice messaging. 10 buttons on the Microphone station are used to activate any messages. A 4 digit security code can be programmed preventing unauthorized use of the paging station.

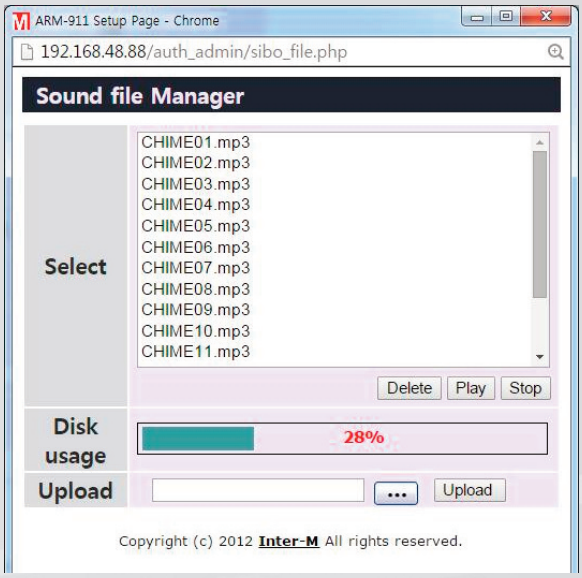
Desktop Type

Wall-Mount Type

Web Browser Configuration

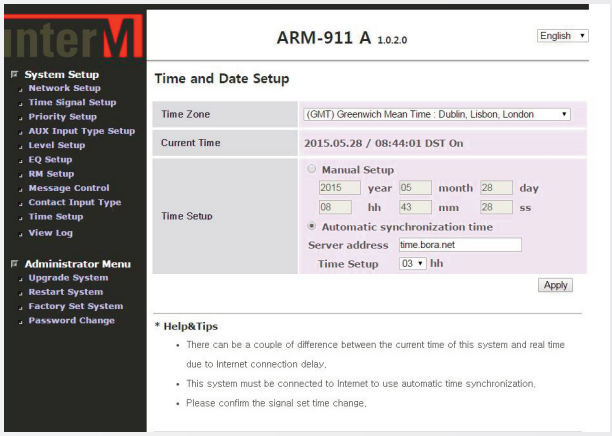
Up to 4 remote microphones can be connected to the ARM-911A/TTS. The microphone can be used for live instant voice messaging. 10 buttons on the Microphone station are used to activate any messages. A 4 digit security code can be programmed preventing unauthorized use of the pagingstation. The ARM-911A/TTS is set-up, configured and managed using a simple to use web-browser interface.

- Network Configuration Setup
- Source Priority setup
- Source level, HPF and EQ adjust
- Output Level Adjust
- Schedule timer programmable
- Remote Microphone Configuration



NTP (Network Time Protocol)

This allows automatic time synchronization.
The ARM-911A/TTS internal clock is updated and synchronized to external server clocks. This improves the accuracy of timer event programming broadcast. The accuracy of the important elements of time increased.
File names for the MP3 timer event program can now use special characters. This hives more flexibilities to the users, especially in multi-lingual file names.



Telephone Paging

A telephone paging input allows the ARM-911A/TTS to be connected to the paging port of a PBX. This allows the use of any authorised telephone to connect to the ARM-911A/TTS to make direct live voice announcements. A DTMF decoder can trigger any of the 10 messages, activated using the dial pad of the phone.

Feature	DTMF Code	Action
1	* + 00 + #	Voice page
2	* + 01 + #	Playback Message 1
3	* + 02 + #	Playback Message 2
4	* + 03 + #	Playback Message 3
5	* + 04 + #	Playback Message 4
6	* + 05 + #	Playback Message 5
7	* + 06 + #	Playback Message 6
8	* + 07 + #	Playback Message 7
9	* + 08 + #	Playback Message 8
10	* + 09 + #	Playback Message 9
11	* + 10 + #	Playback Message 10
12	* + 99 + #	Cancel Message

FEATURES

- Broadcast directly entered messages using TTS technology(ARM-911A-TTS)
- High fidelity scalable audio for excellent speech intelligibility.(MP3 and WMA)
- Timer scheduled payback (can be used for electronic School bell or automated message playing)
- Fault input monitoring and alarm via 5V, reverse DC voltage with a line matching resistor at the EOL.
- Scheduled playback of any of the 10 recorded messages and other via web-browser up-loadable files.
- Balanced audio output (variable output with -50dB/600Ω mic level, -10 line and +4dB selector)
- Optically coupled 10 Contact Closure and RS232 for control and status
- Industrial grade all metal construction, shock and vibration resistant
- Redundant Flash memory, no battery backup required
- 10 message front panel start selections and status
- Source level, HPF and EQ adjust via web-browser
- SD Memory Playback (4GB)
- Multi-message(4) sequencing capability
- Over 20 Minutes of audio storage capacity
- Fault output monitoring.
- Web-browser Configuration
- Output Level Adjust via web-browser
- Telephone paging trunk input
- 24VDC Back up
- Non-Volatile SD Card memory (4GB)
- Crystal clear 24 bit audio quality
- Up to 20kHz bandwidth
- Message playback output monitoring
- Source Priority setup via web-browser
- Up to 4 Remote paging mics
- Internal program scheduler
- Rack mount (1U)

RM-911D Desktop Remote Paging Microphone Station

The RM-911D is a remote microphone station featuring a ten-key keypad for message playback selection. Key selection allows activation of pre-recorded message. The unit features a unidirectional dynamic microphone with a 14" gooseneck extension. An audio signal level meter is provided for displaying the signal levels at the input or output. The unit displays the ready / busy state status via a LED display. The RM-911D is designed for use with the ARM-911A/TTS Automated Remote Messaging controller. It can be remote powered from the ARM-911A/TTS for a distance up to 300 meters. It requires to be locally powered by an optional 24VDC when installed distance above 300 meters. Talk button can be push to talk or latch on / latch off depending on dip switch setting. A pre-announce and post announce chime is also available with a built-in 1 watt monitor speaker.

Features

- Easy cat5e wiring (power, audio, communications)
- Broadcast Microphone primary supply
- Microphone Level LED output
- Selectable pre announce chime
- Status display
- 10 message start selections and status
- External Power available (24VDC Adapter)

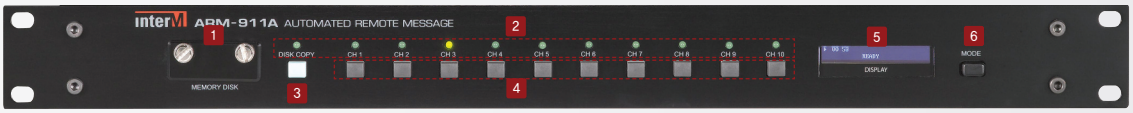
RM-911W Surface Wall-mountable Remote Paging Microphone Station

The RM-911W is a surface wall-mounted remote microphone station featuring a ten-key keypad for message playback selection. Key selection allows activation of pre-recorded message. The unit features a unidirectional dynamic tear-drop, push-to-talk hand held microphone with a retractable coil type cable extension. An audio signal level meter is provided for displaying the signal levels at the input or output. The unit displays the ready / busy state status via a LED display. The RM-911W is designed for use with the ARM-911A/TTS Automated Remote Messaging controller. It can be remote powered from the ARM-911A/TTS for a distance up to 300 meters. It requires to be locally powered by an optional 24VDC when installed distance above 300 meters.

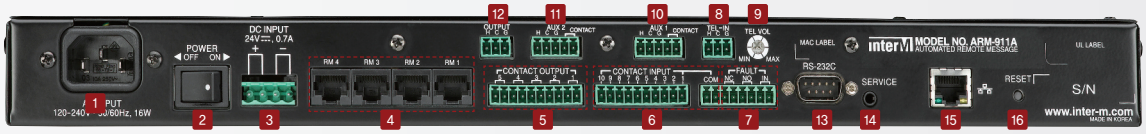
Features

- Easy cat5e wiring (power, audio, communications)
- Broadcast Microphone primary supply
- Microphone Level LED output
- In Use Status display
- 10 message start selections and status
- Up to 4 Remote paging mics can be connected to one ARM-911A/TTS
- External Power available (24VDC Adapter)

FRONT/REAR PANEL

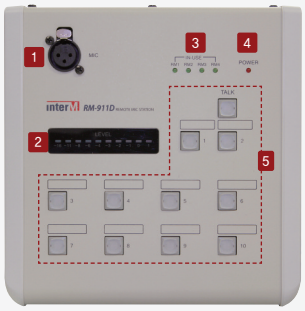


1 SD CARD COVER
2 INDICATING LED
3 COPY BUTTON
4 INSTANT PLAY BUTTONS
5 DISPLAY WINDOW
6 DISPLAY MODE BUTTON



1 AC INLET
2 POWER SW
3 DC INPUT
4 RM INPUT TERMINAL
5 CONTACT OUTPUT
6 CONTACT INPUT
7 FAULT INPUT / OUTPUT
8 TEL IN
9 TEL VOLUME
10 AUX1 INPUT
11 AUX2 INPUT
12 AUDIO OUTPUT
13 RS-232C TERMINAL
14 SERVICE TERMINAL
15 NETWORK TERMINAL
16 RESET

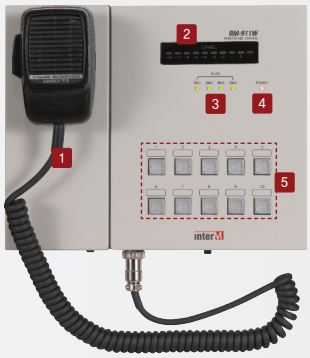
-RM-911D(Desktop Type)



1 Gooseneck Mic
2 Level Meter
3 In Use Status LED
4 Power LED
5 Message activation button

1 Power
2 ARM-911A/TTS Connector
3 Output Volume
4 Monitor Volume
5 Option Switch
6 Update Port

- RM-911W(Wall-Mount Type)



1 Mic
2 Level Meter
3 In Use Status LED
4 Power LED
5 Message activation button

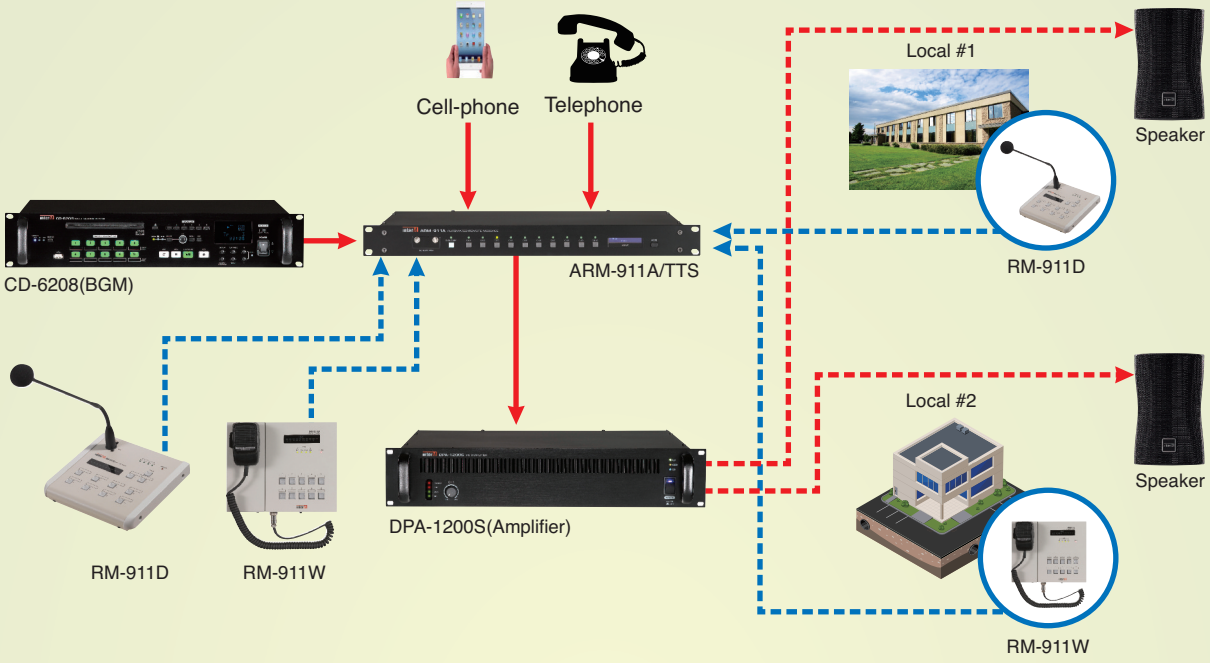
1 Power
2 Mic Connector
3 ARM-911A/TTS Connector
4 Output Volume
5 Update Port

SPECIFICATIONS

	ARM-911A/TTS		
AUX 1/2 (CH IN @1kHz)	Input Sensitivity	-50dBu Setting	-50dBu/10kΩ ±3dB
		-10dBu Setting	-10dBu/10kΩ ±3dB
		+4dBu Setting	+4dBu/10kΩ ±3dB
	Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	+10dBu Input	NOR: 102dB, LIM: 95dB
		+4dBu Input	NOR: 88dB, LIM: 80dB
		-10dBu Input	NOR: 85dB, LIM: 78dB
		-50dBu Input	NOR: 67dB, LIM: 60dB
	Total Harmonic Distortion (20kHz LPF)	+4dBu Input	NOR: 0.005%, LIM: 0.015%
		-10dBu Input	NOR: 0.007%, LIM: 0.02%
		-50dBu Input	NOR: 0.06%, LIM: 0.15%
	Frequency Response (+1/-3dB) -10dBu Input	20Hz - 20kHz	
SD CARD (Play MP3, 0dBFS 1kHz File)	Input Sensitivity	-10dBu ±3dB	
	Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	NOR: 94dB, LIM: 87dB	
	Total Harmonic Distortion (20kHz LPF)	NOR: 0.01%, LIM: 0.04%	
	Frequency Response (+1/-3dB)	20Hz - 18kHz	
RM IN (@1kHz), (RM-911D connected)	Input Sensitivity	0dBu/10kΩ ±3dB	
	Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	NOR: 65dB, LIM: 60dB	
	Total Harmonic Distortion (20kHz LPF)	NOR: 0.3%, LIM: 0.7%	
	Frequency Response (+1/-3dB)	150Hz - 18kHz	
TEL IN (TEL IN @1KHz)	Input Sensitivity	-10dBu/10kΩ	
	Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	NOR: 85dB, LIM: 78dB	
	Total Harmonic Distortion (20kHz LPF)	NOR: 0.007%, LIM: 0.02%	
	Frequency Response (+1/-3dB)	100Hz-18kHz	
NETWORK IN (Play MP3, 0dBFS 1kHz File @1kHz)	Input Sensitivity	-10dBu/10kΩ	
	Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	NOR: 85dB, LIM: 78dB	
	Total Harmonic Distortion (20kHz LPF)	NOR: 0.01%, LIM: 0.04%	
	Frequency Response (+1/-3dB)	20Hz-18kHz	
Power Source		120VAC – 240VAC; 50/60Hz, 24VDC	
Operating Temperature		0°C ~ +40°C	
Power Consumption		16W	
Weight (SET)		3.5kg / 7.7lbs.	
Dimensions (SET)		482(W)x44(H)x280(D)mm/19(W)x1.7(H)x11(D)in	

	RM-911D	RM-911W
MIC INPUT (1kHz)	Balanced	Unbalanced
Input Sensitivity	-50dBu ±3dB	
Signal to Noise Ratio (S/N, 20kHz LPF, A-WTD)	NOR: 65dB LIM: 60dB	NOR: 63dB LIM: 58dB
Total Harmonic Distortion (THD, 20kHz LPF)	NOR: 0.3%, LIM: 0.7%	
Frequency Response (+1/-3dB)	150Hz - 18kHz	
Monitor Amp	0.5W 16Ω	-
Maximum Operable Distance CAT5E (50°C)	Cable resistance ≤ 30Ω: 300m 30Ω< Cable resistance ≤ 80Ω: 100m	
Power Source	24VDC (From ARM-911A/TTS)	
Power Consumption (From ARM-911A/TTS DC 24V)	4.8W	2W
Weight (SET)	1.37kg / 3lbs.	1.7kg / 3.7lbs.
Dimensions (SET)	200(W)x67(H)x206(D)mm 3.9(W)x2.6(H)x8.1(D)in	261(W)x188(H)x46(D)mm 10.3(W)x7.4(H)x1.8(D)in

APPLICATIONS



Education facilities

Elementary/High School

College/University

Commercial facilities

Department Store
Shopping Center

Hospital

Public facilities

Government Offices

Station & Terminal

Inter-M Corp. (IMK)

719, Dobong-ro, Dobong-gu, Seoul, Korea
Overseas Sales Team
Tel_ +82-2-2289-8141~7 **Fax_** +82-2-2289-8149 **E-mail_** overseas@inter-m.com **www.inter-m.com**

※ Design and specification are subject to be changed for the improvement of product quality without pre notice.

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