

JTS®

AWA-75 Pro

UHF PLL Wireless
Portable Active Speaker

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AWA-75 Pro



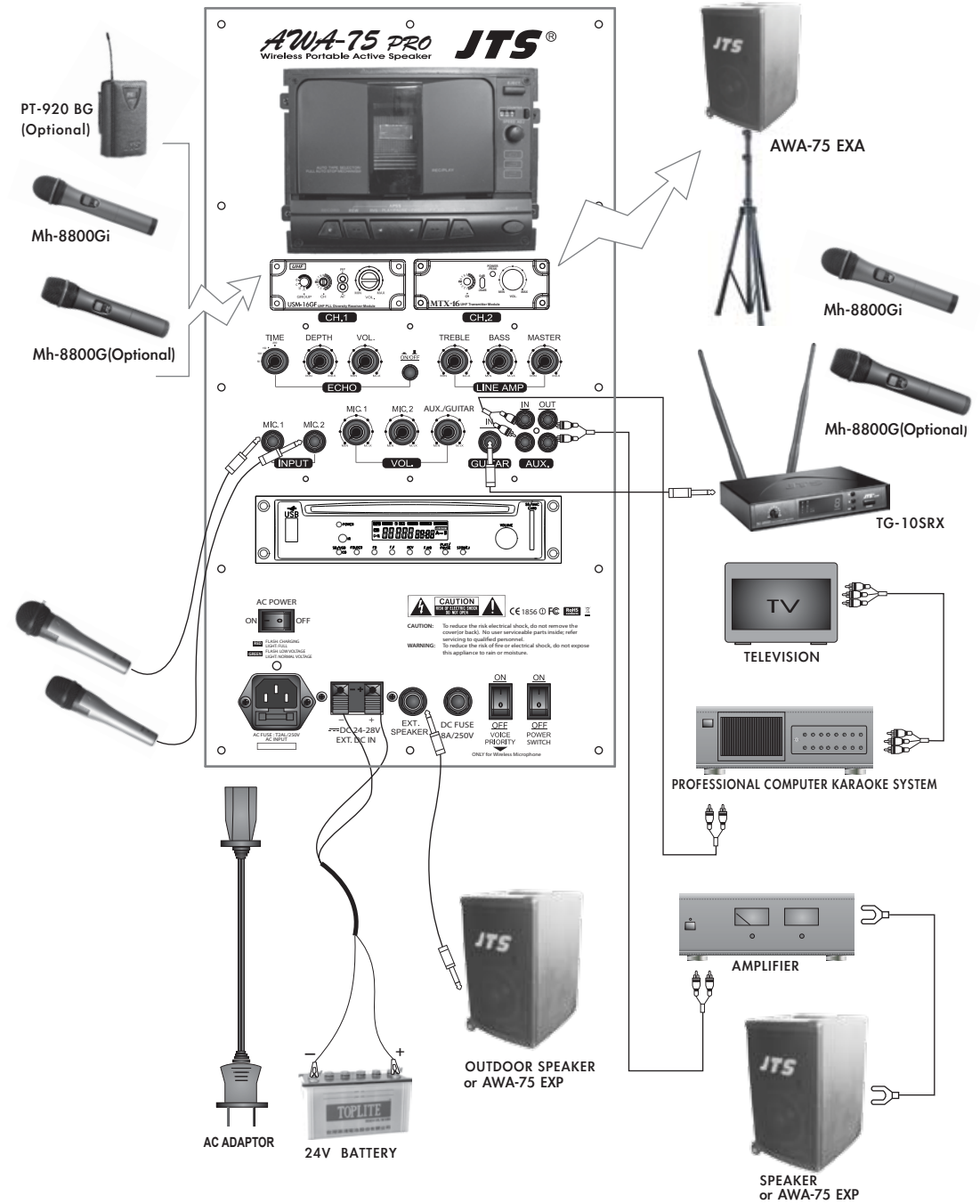
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Portable Active Speaker

Installation Guide

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Thank you for choosing the **JTS**® wireless systems. In order to obtain the best efficiency from the systems, you are recommended to take a few minutes to read this instruction manual carefully.

➤➤ Features

1. A portable active speaker with slot-loading CD module, ECHO sound-effect processor with Time/Depth/Echo volume control, Treble/Bass control, Guitar input and AUX in/output with volume control, two wired microphones inputs with independent volume control, PLL wireless module with wireless microphone voice priority function, and extending speaker output.
2. Using AC 220V or 110V power that contains RMS 75 Watts(4Ω) output.
3. Adopting bi-amp design with high quality active crossover, and 8-inch woofer that provide the best sound quality.
4. The Power amplifier uses IC circuit design that not only provides high efficiency and better sound quality, but also protects overheat and short circuit.
5. Adopting high-quality, toroidal transformer design.
6. Using medium-density wood fiberboard as the speaker box.
7. Detachable wheels and trolley create the convenience for free moving.
8. Equipped with speaker floor stand socket for heightening use.
9. Slot-loading CD player with LCD display can withstand 180 degree swing and falter, which is suitable to use in any kind of outdoor environment.
10. PLL UHF wireless microphone system, which is able to reach over 80M without any interference.
11. Two sealed lead-acid batteries with automatic charging design. The charger will be activated immediately when AC power is plugged in, and AC power switch is in "ON" .
12. Two rechargeable batteries with 12V/5Ahr capacity each that could be used over 3.5 hours with in general volume & over 7.5 hours with low volume.
13. Uninterrupted power supply (UPS) design that will automatic switch to DC battery without any effect when pulling out the AC power cable.
14. Two-steps LED charger indicator (Red and Green LED) with low voltage detection. It would flash red light when charging, and light red when full charged, and would light green when the voltage is normal, and flash green light under the low voltage.
15. Independent power switch for CD player that could extend the battery using time.

Notice:

1. Please charge the rechargeable batteries more than 8 hours for first time operation.
2. Please refresh the batteries every three months when not using. The batteries will be damaged if left unused for a long time. (over three months)
3. Refresh the rechargeable battery before operation each time to ensure the best performance.

◀◀ Specification

AWA-75 Pro

UHF PLL Wireless Portable Active Speaker

AC Power : 115V/230V

DC power : 24V~30V

Lead-acid Battery : 12V/5AH*2

Woofer : 8" 8Ω/100W

Tweeter : piezoelectric

Echo Time (ms) : 49.2/98.3/147.5/196.6

Sensitivity of MIC1/MIC2 : -47dB/600Ω

Sensitivity of AUX IN/GUITAR : -11dB/10K

AUX Output : -3dB/600Ω

Treble Control : ±10dB at 10KHz

Bass Control : ±10dB at 100Hz

Power Output(RMS) : 75W at 4Ω loading (THD10%)

Power Consumption : 180VA

THD% : <0.5% at 1 Watt output

S/N ratio : >60dB at 50W output

Build-in Audio : CD module

Control Switcher : ECHO, Priority, Power

Rotary switch : MIC1, MIC2, AUX, TIME

, DEPTH, ECHO Vol

, TREBLE, BASS, MASTER

Dimension : 310mm(W)*515mm(H)*380mm(D)

Weight : 23.5Kg

Mh-8800Gi/Mh-8800G(Optional)

UHF PLL Handheld Transmitter

Frequency preparation : PLL Synthesized Control

Carrier Frequency Range : 502~960MHz

RF Outputs : 10mW

Stability : ±10KHz

Frequency Deviation : ±48kHz

LCD Display : Channel, Battery Fuel Gauge, Sensitivity

Controls : Power On/Off, Mode Setting, AF Level,

Channel Up/Down, Lock-on Mode

Spurious Emissins : <-60 dBc

Audio Frequency Response : 50~16,000Hz

Battery : UM3, AA 1.5V*2

➤➤ Specification

PT-920BG (Optional)

UHF PLL Body-Pack Transmitter

Frequency Preparation : PLL Synthesized Control

Carrier Frequency Range : 502~960MHz

RF Outputs : 10mW

Stability : ±10KHz

Frequency Deviation : ±48kHz

LCD Display : Channel, Battery Fuel Gauge

Controls : Power On/Off, AF Level,

Channel Up/Down, Lock-on Mode.

Spurious Emissins : <-50 dBC

Audio Frequency Response : 40~18,000 Hz

Battery : UM3,AA 1.5V*2

CM-501 (Optional)

Condenser Lavalier Microphone

Connector : 4P Mini XLR

Frequency Response : 100~15,000Hz

Polar Pattern : Cardioid

Sensitivity (at 1000Hz) : -60±3 dB* (1mV)*0dB=1V/μbar,1kHz

Impedance : 2.2kΩ

Max. SPL for 1% THD : 130dB

Dimension(mm) : Ø10.1mm(W)* 26.4mm(H)

Net Weight : 21.5g

USM-16GF

UHF PLL Diversity Receiver Module

Frequency : 502~960MHz

Frequency Stability : ±10KHz

S/N Ratio : >100dB

Receiving Mode : Antenna diversity

Mute : Noise and Pilot Tone Squelch

Operation Voltage : 12-18VDC

Output Connector : 0dB/4.7kΩ(40kHz Div)

Dimension(mm) : 60mm(W)*25mm(H)*123mm(D)

MTX-16

UHF PLL Transmitter Module

Frequency : 502~960MHz

Frequency Stability : ±10KHz

S/N Ratio : >100dB

Receiving Mode : Antenna diversity

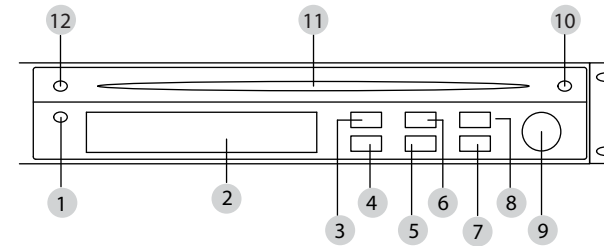
Mute : Noise and Pilot Tone Squelch

Operation Voltage : 12-18VDC

Output Connector : 0dB/4.7kΩ(40kHz Div)

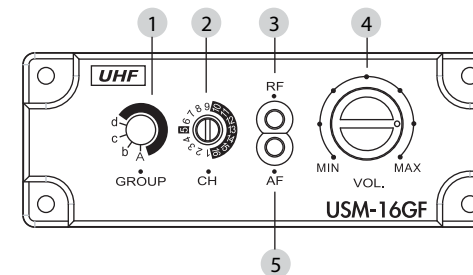
Dimension(mm) : 60mm(W)*25mm(H)*123mm(D)

◀◀ Panel Identification



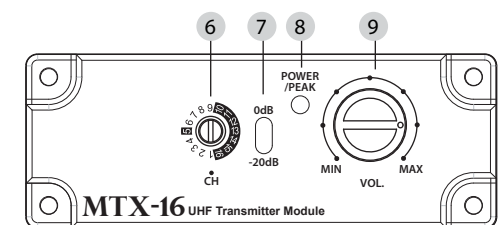
▲ ANTI SHOCK CD PLAYER

1. **Power Switch :** CD Player Power Switch
2. **CD Player Display :** Display status
3. **Shuffle :** Random Playback
4. **Repeat/Enter :** Repeat-One / All - Enter
5. **Rewing :** Search and play the previous track
6. **Stop :** To STOP CD Play
7. **Fast Forward :** Search and play the next track
8. **Play/Pause :** For CD Player & Pause
9. **Volume Level :** CD - LEVEL Volume
10. **Eject :** FOR DISC OUT
11. **CD SLOT :** Insert CD
12. **Program :** For CD Player Programming



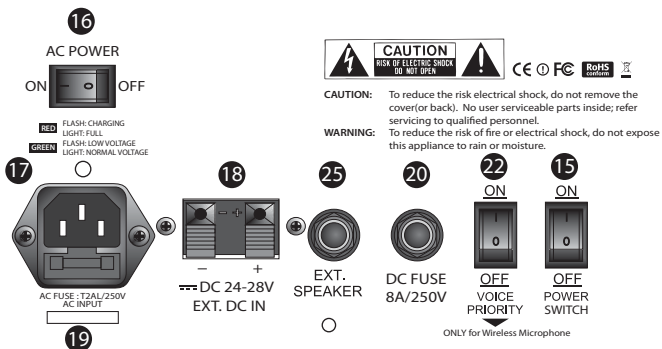
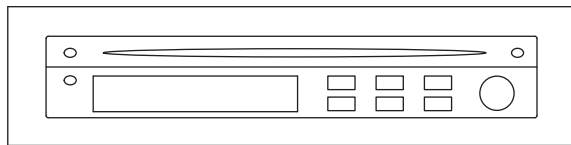
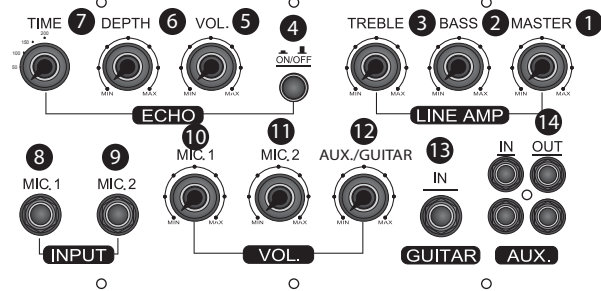
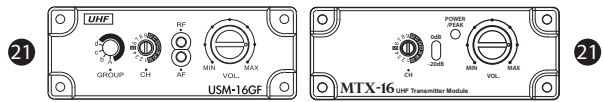
▲ WIRELESS MODULE

1. **Group Selector**
2. **Channel Selector**
3. **RF LED**
4. **Wireless MIC Volume Control**
5. **AF LED**
6. **Group Selector**
7. **PAD**
8. **Power/Peak**
9. **Wireless MIC Volume Control**



AWA-75 PRO JTS®

Wireless Portable Active Speaker



▲ AWA-75 BACK PANEL

► Volume and Effect Control

1. Master volume control: for all sound except AUX input/output
2. Bass tone control: for all sound except AUX input/output
3. Treble tone control: for all sound except AUX input/output

► Echo Function

4. Echo ON/OFF:
5. Echo volume control:
6. Echo time delay control: for MIC1/MIC2 and wireless module
7. Echo repeat control: for MIC1/MIC2 and wireless module

► Wired Microphone Control

8. MIC1 input (φ6.3 phone jack): with independent volume control and echo effect
9. MIC2 input (φ6.3 phone jack): with independent volume control and echo effect
10. MIC1 volume control: for MIC1 input
11. MIC2 volume control: for MIC2 input

► AUX Function

12. AUX volume control: for Guitar and AUX input & output
13. Guitar input:
14. AUX input & output: with RCA jack

► Power & Battery Function

15. Main Power Switch
16. AC Power Switch: Only when AC Power switch is in "ON", the external AC power will connect to the system.
17. 3P type AC power socket: whatever power switch is in "ON" or not, as soon as AC power is connected, and AC power switch is in "ON", it will charge the batteries.

Charger Indicator Status

- Red and Flashing: Charging
- Red and Light: Full
- Green and Flashing: Low Voltage
- Green and Light: Normal Voltage

Notice:

18. External 24V battery input: Outside DC input would not charge the batteries.
19. AC Fuse: T2AL/250V for AC input
20. DC Fuse: 8A/250V for DC input

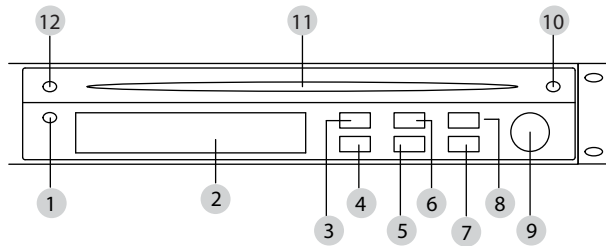
► Wireless Module and Control

21. Wireless module: with independent volume control and echo effect
22. Wireless Microphone priority switch: Switching to "ON", all other sound source will be eliminated as soon as wireless microphone begins being used.

► CD Player Module and Extended Speaker

23. CD player module: with independent power switch
24. Cassette Player (Optional for AWA-75 Pro)
25. Extended speaker terminal (φ6.3 phone jack): suggested using 8Ω external speaker since it will be parallelly connected with internal speaker.

➤➤ CD Player Operation



➤ POWER ON/OFF

Press **1** to switch on CD Player

➤ CD PLAYING

This CD player accepts 12 CM discs like CD-R, and CD-RW
Do not attempt to insert CD-ROM, CD-I, CDV, COMPUTER CD and 8 CM disc.

- ✓ Insert a disc in to **11** with the play back side down and playback starts automatically. Track number and playing time will be displayed.
- ✓ Top amuse playback, press **8**. To resume normal playback, press the **8** again.
- ✓ To stop playback, press **6**. Disc play will show total track numbers and total time played.
- ✓ Press **10** to stop CD play and will quietly reject. If press **9** disc will be inserted again. If disc is not removed within 20 seconds it will be auto inserted back in automatically.

Note :

When CD display panel shows "ERROR" message or becomes unreadable,
Please restart the CD player. If power switch on the CD player is not working at this time, turn off the CD power switch. The messages should be gone after turn on the power again.

➤ SELECTION AND SEARCH

To select tracks during playback. Press **5** or **7** once for desired next or previous track number. Press **8** will continue playback while display selected tracks.

To select desired section during playback

- ✓ Press and hold **5** or **7** to activate fast forward or reverse until desired section is located.
- ✓ Release button once desired section is located to resume normal CD play.

Note :

Only possible during SHUFFLE, PROGRAM, REPEAT, REPEAT ALL modes.

➤ PROGRAM

Up to 20 tracks can be pre-programmed with playback order and how often.

- ✓ Press PROGRAM button, P1 : will display. Press **5** or **7** for desired tracks.
- ✓ Press **4** button, to store this track.
- ✓ Repeat to store other desired tracks.
- ✓ Press **8** button to start playback of programmed tracks.

Note :

Programmed tracks will loose its memory when sudden power failure and the CD is removed.

SHUFFLE

- ✓ Press **3** during playback mode. A random selection is played from all available tracks.
- ✓ Press **3** during stop mode. A random selection is played from all available tracks.
- ✓ Press **3** again will deactivate this function.

➤ REPEAT

This unit will repeat play a single track or all tracks.

- ✓ Press **4** once to repeat current selection track.
- ✓ Press **4** twice will repeat all tracks.
- ✓ Press **4** three times will deactivate this function and back to normal.

➤ LEVEL VOLUME

- ✓ Turning **9** to adjust & control the desired volume.

Note :

When inserts the disk into CD player or takes out the disk, it is necessary to let CD player insert disk and return automatically. It is prohibited to push or take out the disk by hand before the disk completely return from CD player, thus will cause the machine to be broken down and unable to operate normally.

➤➤ Safety Instructions

▲ **While setting up and installing this machine**

Do not wet the machine

Do not exposure to rain, or heavy humidity to prevent fire or electric shock.

➤ **Confirming the intensity of the place for setting the machine**

Install the machine in a place that can bear one's own weight or steady shelf. It can prevent the machine from causing casualties or property loss while dropping.

➤ **Do not touch the loudspeaker terminal**

High impedance of loudspeaker terminal can reach the voltage of 110V, please do not touch it, in order to avoid electric shock.

➤ **Do not involve the cable**

While pulling out the plug, please don't involve the cable; the electric wire damage is apt to cause the fire. Be sure to hold the plug to pull out.

➤ **Do not damage the cable**

Do not prune, twist, damage or change the cable definitely. Moreover avoid using it in the place close to electric heater and do not place a heavy object and machine itself on the cable may cause electric shock and fire.

➤ **Do not use the voltage of power out of appointing**

Limit the use of the voltage of the power stipulated in the machine, if use higher voltage will cause electric shock or fire.

➤ **Pay attention to the place to set up**

Avoiding installing the machine on the moist and dust, airtight space, the directly sunlight penetrates or close to the electric heater, the place of soot or the vapor is apt to cause electric shock or fire.

➤ **While moving the machine, please pull out the plug**

It may cause electric shock or fire if not pulling out the plug while moving the machine.

▲ **While using this machine**

➤ **When in case there are unusual states to take place**

While using the machine that is stating any abnormal state, please get in touch with the distributor as quickly as possible after closing the power and pulling out the plug at once, Please do not continue using the machine, it may cause electric shock or fire,

1. If find that the machine smolders or smells until strange smell.
2. When if there are water or object fall into the machine.
3. If at the time of the machine drops or outer housing damage.
4. If at the time of the electric cable or wire damage.
5. When the machine emits the unusual sound or has no sound.

➤ **When thunders & lightning occurring, do not touches the plug**

Do not touch the plug while the thunder & lightning occurring, it may cause shock by electricity.

➤ **Do not put any object into the machine**

Do not put any object; it may cause the spark or electric shock.

➤ **Clean up the plug and socket**

If the dust is piled up on the plug and socket for a long time, it is apt to cause the fire, Please clean up regularly and insert the plug firmly on the socket.

➤ **When maintain and do not use this machine for a long time**

When maintain and do not use this machine for a long time, please pull out the plug in order to consider safty and may cause shocking by electricity and fire.

➤ **Do not open the upper housing of machine or overhaul the inside by oneself**

In order to avoid shocking by electricity, should not open the upper housing of machine definitely, because it contains the high voltage of parts in the machine. The movements such as inside Overhauling, adjustment and repairing, etc., please trust the distributor to deal with it.

➤ **Before turn on the power of machine, please adjust volume to the lowest level**

➤ **Do not place any article on the machine**

Please do not place any article on the machine, it may drop and cause personnel's injury carelessly.

➤ **The sound is unstable for a long time (twist), please do not use it**

This is a sign of a trouble; it is apt to cause loudspeaker generating heat and fire to use continuously.

➤ **Clean up the inside regularly**

Notify your distributor to clean up the machine regularly. if the dust is piled up on the machine for a long time it is apt to cause damage & fire.