

## **ALL-IN-ONE**

**JT5**<sup>®</sup> PROFESSIONAL CO., LTD www.jts.com.tw F©C(1856①企業配置 555650001 WA-35 /Mh-35 PORTABLE WIRELESS ACTIVE SPEAKER

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

## 1. Precautions

- Please read the User Instructions carefully before use.
- Please keep the User Instructions properly.
- Never place the device near a heat source, such as an oven, electric heater or other heating facility, so as to avoid the hazard of fire.
- Never let the device in a moist, dusty environment of use for prolonged period; otherwise, it is likely to cause short circuit in the device.
- Do not continue to use the product under weather with lightning in order to prevent lightning strike which would cause injuries to persons or damages to the device.
- Store the device in appropriate places, preventing from accidental drop, which would cause injuries to persons or damages to the device. Never continue to operate the device when an anomaly arises in its operation. Turn off the power immediately and contact the distributor as soon as possible.
  - 1.Smoke or smell of burn comes from the device;
  - 2.Water or any liquid flows into the device;
  - 3. The device actuates abnormally due to accidental damage; 4. The device operates with abnormal noises or the speaker does not
  - sound;
  - 5.The sound is distorted out of tune.

Keep the socket or plug of the device clean at all time to avoid excessive built-up dust, which would otherwise tend to cause poor contact in the device or lead to fire from wire overload.

- Careful use of cord
  - 1. Do unplug the plug by holding its head instead of the lead to prevent broken cord, which would result in a fire.
  - 2. Do not cut or wind the cable, as such behavior tends to damage the cord. Place the cord flat in a ventilated place with flammable objects at a distance.
- Go green. Do not dispose of the battery indiscreetly. Make a habit of recycling.

WARNING	NOTICE
In order to reduce the risk of fire or	To reduce the risk of electric shock, do
device damage, do not put the device in	not remove the housing from the device
high-temperature or moist environment	without permission. Users are requested to
for prolonged period. Also, do not use	seek assistance from a qualified technician
this product under weather with lightning.	or the dealer, in case of need.

### 2. Features

#### Technique of Class D Audio Power Amplifier

The amplifier of WA-35 uses the up-to-date technique of Class D Audio Power Amplifier, able to provide higher efficiency in power use for the system as well as offer outstanding audio output.

Powered by Lithium battery

The system incorporates 14.8V lithium battery\*1, able to provide the system with higher output power and reduce the unit weight by about 30%, enabling the use by carrying for long hours. Continuous music playback can last 7 hours; continuous voice speech can last 10 hours\*2.

- Splash-proof design, enables use in severe environment\*3.
- UPS design : when power supply in DC is inputted/removed, the unit switches to DC/Battery supply mode automatically without affecting the system operation.
- Energy conserving device: when the sound source devices are not in use\*4, the system automatically switches off the amplifying circuit, which saves 60% of the energy, effectively lengthening the standby time of the system.
- Wireless microphone system: incorporates a built-in wireless microphone system with UHF band, which works with Mh-35 handheld wireless microphones (powered by one single AA cell) to provide 100M non-interfered transmission and 16 channels to choose from.\*5, \*6
- Built-in alarm sound and LED lighting Provides SOS visual call for help, lighting and two types of pre-recorded alarm sound which is suitable for use in school or other application in emergency evacuation.
- Built-in audio: supports music playback via USB/SD, and 20 programmable channels of FM radio stations.

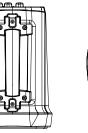
#### <sup>≫</sup>Notes

- 1. The system operates on 14.8V power supplied by lithium battery which is 16.8V fully charged. When the battery is below 12V, the system switches off forcibly to avoid over-discharge. 2. The above-stated time of device use are for reference only. They vary according to the volume
- adjustment. 3. The description refers to spills which may happen in everyday life.
- Sound source devices refer to "wireless microphone system", "built-in audio" and "input from microphone with cord".
- 5. The low power radio device has passed the type approval; any firm, vendor or user may not tamper with by changing its frequency, amplifying its power or altering its originally designed features and functions without permission. 6. The use of low power radio device may not affect aviation safety or interfere with legal
- telecommunication. The use should be stopped immediately when any interference is found; no use may be resumed until interference is eliminated by improvement. The above-mentioned legal telecommunication refers to radio communication operated under telecom regulations. The low power radio device tolerates interference from legal telecommunication or radioactive devices for industrial, scientific and medical use.

## 3. Specification

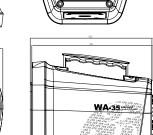
#### 3-1 All-in-One portable wireless active speaker // WA-35

Frequency Preparation	PLL Synthesized Control
Carrier Frequency Range	502~960MHz
LED Display	0~F
DC power	19~20V (48Wor above is recommend)
Li-od Battery	14.8V/2300mAh (Averaging of 4 hours charging time)
Speaker	
Buid-in Audio	USB/SD MP3/FM
MIC input impedance	10ΚΩ
THD+N	< 0.1% (1KHz @ 1W)
Power Output(RMS)	35W (4Ω @ THD10%)
S/N Ratio	>98 dB
T.H.D	±8dB @ 1KHz
Frequency Response	50~20,000Hz
Dimension(m/m)	145.5mm(W)*179.4mm(H)*223mm(D)
Weight	1.75Kg
Others	Alarm ` LED light



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Frequency Preparation	PLL Synthesized Control
Carrier Frequency Range	502~960MHz
Number of Channels	16
RF Outputs	Max: 10mW
Stability	$\pm$ 10KHz
Frequency Deviation	$\pm$ 48KHz
LED Display	Power & Low Battery
Controls	Power On/Off, CH,AF Level
Spurious Emissions	<-60 dBc
Audio Frequency Response	50~16,000Hz
Battery	UM3 , AA 1.5V*1
Dimension(m/m)	35.6(W)*133mm(H)*32.5mm(D)

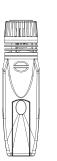






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## 4. Function Description

#### 4-1 Multi-functional Wireless Portable Loud Speaker System //WA-35

#### 1. Function description of system panel

#### Power switch/Volume

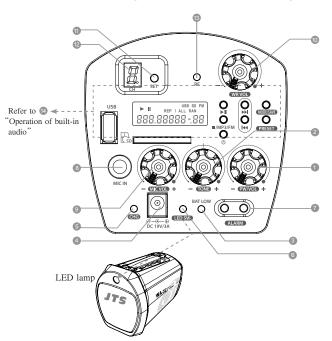
- System power switch : the power switch on the main unit that controls the power to system; when it is turned Off, the other devices all are inoperable.
  - ON : turn clockwise to switch on the power to main unit.
     OFF : turn counterclockwise all the way till a 'click' so
- 'click' sound. With the voltage indicator lamp out, the switching off is complete.
- System volume : turn clockwise to increase volume and counterclock-wise to reduce volume.
   Tone adjustment: allows the user to adjust the pitch as preferred; by
- default, the knob in middle position indicates 0dB.
  - Turning to the right all the way: +8dB at 1KHz
     Turning to the left all the way: -8dB at 1KHz
- Battery indication :
  - By the indicator lamp, the user can determine the current battery status and whether to recharge.
    - When the battery is being recharged, the system switches automatically to DC power supply.
  - Green lamp lit: the battery is in safe working range
  - Red lamp lit intermittently: low battery
  - Red lamp lit: the system battery should be recharged immediately %Important: When the red lamp warning is given for prolonged time, the system forcibly turns off if it is used continuously, in order to avoid over-discharge, which affects the service life of the battery.
- OC input port:

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- Plug the power supply kit, which is supplied as accessory to the main unit, to the DC port on the main unit and the system recharges the battery immediately.
- 5 Recharge indicator lamp: continuous red light: recharging / continuous green light: recharge completed.Lighting switch:
  - Pressing once: Continuously lit
  - Pressing twice: SOS signal
  - Pressing three times: Blinking
  - Pressing four times: Turning off
  - %Remarks: International code for SOS is expressed by 3 short, 3 long and 3 short strokes.
- Alarm button First aid O) Fire ALARM

(3) Microphone socket: for use of microphone with  $\psi$  6.3 plug and cord Interpretent of wired microphone wired microphone

- Receiver switch/volume :
- receiver power switch and independent volume control are provided. Channel setting :
  - Hold the button down till the 'Dot' blinks. Then, press the setting button to set the channel of use one by one between 0 to F.
- 2 Channel indication: indicates the current set channel for use. I RF indicator lamp:
- this lamp is lit to show that the RF signals of an effective channel are received.
- @ Refer to the section "6-1.2 Operation of built-in audio" of User Instructions (p.10)



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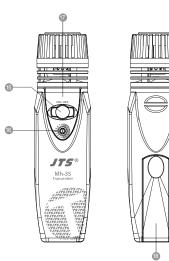
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#### 4-2 Handheld transmitter // Mh-35

#### B Power switch :

Press once to switch on. Press again for 3 seconds to switich off.

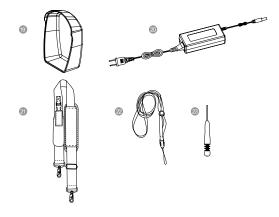
- (6) Channel select knob : Turn this rotational knob to point the arrow at the desired channel.
- Description Battery status indicator lamp : Green - battery full Red - low battery; battery change is needed.
- Battery compartment



#### 4-3 Accessories

## Waterproof cover

- @ AC/DC adapter (with AC power cord): /Spec of Spec of plug Polarity plug/ /Polarity/ AC IN: AC100-240V, 1.5A 50/60Hz DC OUT: 19V, 2.52A Ð -6 Strap
- 🙆 Neck Strap
- B Flat head screwdriver



Note:
If to use any other poweradapter, while the spec of plug and polarity should be consistent, the rated output power is recommended over 48W in order to ensure of the second sec

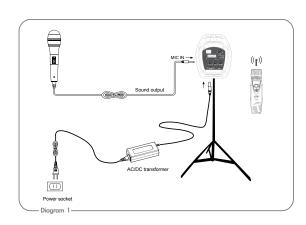
## 5. Connection

#### 5-1 System connection

#### 1.WA-35 wireless microphone system:

- Provides 16 preset UHF channels; built-in noise mute and tone key squelch, working with Mh-35 Handheld transmitter, able to operation distance of 100M. 2. Microphone wired:
- When the microphone with  $\Phi$  6.3 plug is plugged in mode, an auto-detection device enables the system to enter from satand by mode into working mode automatically.

3.Connect the AC/DC transformer: Connect one end to the "DCV Input socket" on the receiver ④ first, and connect the other to an AC power socket.



#### <sup>™</sup>Note:

Standby mode:

When the system is switched on and the sound source devices, including microphone system, built-in audio and alarm, are not in use, the system enters Standby mode automatically.

#### Working mode:

When the use of any sound source device begins, the amplifier of the main unit is awaked and the system enters working mode.

## 6. Operation

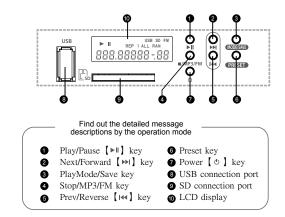
#### 6-1 WA-35 System settings

- 1.For basic operations, refer to the section "4-1.1 Function description of system panel" (p.5).
- 2.Operation of built-in audio
  - (1)Turning on/off the player
    - Turning On In the status of main power switch ① being On, press the Power key? . When the back light of the LCD display () is illuminated, the turning on of the player is complete.
    - Turning Off -In the turned-on status, press the Power key; when the back light of the LCD display is out, the player is turned off.

%Note: In order to avoid the user from mistaken touch which starts/closes the player, the Power key takes certain time to actuate for safety.

#### (2)Description of operation

The player starts in the music playback mode by default; through audio source switching, reception of FM broadcast is enabled.



#### Music playback mode

In the Music playback mode, the playback of music files in USB/SD storage devices is supported, providing the user with handy selection.

USB connection port : supports portable storage devices of Type-A USB port. SD card connection port : supports standard-size SD/MMC multimedia memory cards.

1. Device selection

The priority for the player is to read from USB. When no such device is present, the program reads from SD card automatically.



The screen displays 'NO FILE' when neither device is detected.



When both connection ports are connected by storage device: Press  $\blacksquare$  / MP3/FM button ③ to switch from USB to SD.

#### 2. Title Playback/Pause/Stop

Press ● and the playback of the title begins. The screen displays ▶ during playback and || when paused. Stop title playback: Press ● to stop playback of the current title.



Remarks: If the storage device contains multiple music folders, pressing () during playback can skip to the title at the beginning of a next folder.

 3. Playback settings
 Title select/Fast forward - During playback, press 2 : to a next title press : to the previous title hold 2 down : fast forward hold down : fast reverse
 Repeated playback — Pressing MODE/SAVE key repeatedly can select

repeated playback modes in the order, by display, of REP 1 : to repeat the current title REP ALL to repeat all titles

RAN : to play the titles at random

4. Playback of preset titles

The player has a function of playback of preset titles, which allows the user to fast select the titles desired.

When the playback is stopped,

- (1)press (1): the three digits on the left of the screen display '001' by default, with the digit for the hundreds blinking; at this point, press (2) or (5) to select the digit of the hundreds place of the desired title number.
- (2)Then press (2), and follow Step (1) to set the digits for the tens and the ones one by one.
- (3)When the setting is complete, press 
  and the program starts to play the preset titles automatically.
- (4)If the set value exceeds the total title number in the device, the screen displays Err (Error) indicating an error message.



#### Broadcast listening mode

With the built-in FM tuner, you can save your preferred radio stations in the preset channels for ease of listening to your desired stations subsequently. \*Tuner bands: 87-108MHz in areas other than Japan: 76-90MHz in Japan

#### 1.Using the tuner :

USB→SD→FM.

In the state of Stop in music mode : "				
press MP3/FM button 4 on the tuner to				
switch signal sources in the order of:				

		FM
	087	.00

FM

#### At current frequency of reception :

In manual modulating mode: increase or decrease the frequency at 100KHz increment.

Press Next/Forward key 2: to increase frequency

Press Prev/Reverse key 6: to decrease frequency

In Auto-tuning mode: the tuner moves forward/reverse automatically to search for radio stations. When a valid station is found, the screen stops at the corresponding frequency.

Hold Next/Forward key 2 down : to increase the frequency

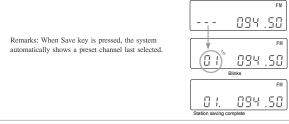
Hold Prev/Reverse key  $\mathbf{6}$  down : to decrease the frequency

2. Saving stations: the user can save 20 preferred radio stations as preset channels.

(1)Tune to a radio station which is desired to save.

(2)Hold MODE/SAVE key 3 down and the channel number blinks on the left of the screen.

(3)Press 2 or 6 key to freely choose the channel numbers to be saved. (4)Hold key 3 down again till the dot indicator appears and the channel number blinks for three seconds. The channel saving is complete.



3. Select a preset channel :

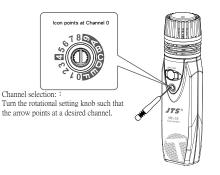
To listen to preset channels, the user can press PRESET key 6 repeatedly to select a radio station in a repeatable cycle from 01 to 20.

i Note: ∶

- 1. If no radio stations are saved, the initial frequency of each preset channel is the lowest frequency in the tunable range.
- To save a radio station, it is necessary to press the Save key twice.
   Though a station desired to be saved as a specific channel is selected and the user press the Save key only once, after a while, the saving process cancels the selection automatically and the channel returns to the original status.

#### 6-2 Mh-35 Setting of Handheld transmitter

For basic operation, please refer to the section "4-2 Handheld transmitter // Mh-35" (p.7).



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## 7. Important notice on product

#### WA-35

- Please make sure to recharge the battery for 8 hours before the initial use. It is advised to keep the battery in workable condition at all times in order to
- avoid recharging a dead battery. To ensure best function and optimal time of use, it is recommended to recharge the device before using each time. If the device is not in use for a prolonged period, recharge the battery on regular
- has device is not in use for a prolonged period, recharge the battery on regular basis (or every 3 months) to prevent reducing its service life. Please remove the battery (Fig.2-4) and contact the dealer of the device in case of battery anomalies, such as impossible to recharging effectively or obvious reduced time of service, which may be a result of defective battery. Do not put the speaker too close to a person s ears when operating the device is found important the head work with battery battery.
- in fear of impairing his hearing with high volume.
- Use soft cloth with clean water or mild detergent to clean the device. To avoid causing damage to the device's surface or printed characters falling off, do not use alcohol or any other chemical solvent.
- Use the transformer supplied as accessory to the product when drawing on DC power, or it is recommend to use a transformer of the same specification and safety certified as power supply kit.
- When using the LED lighting, do not look directly at the light emitted, as the light intensity is high.

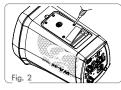


Fig.3



To begin with, unscrew the battery cover at the bottom.

Remove the battery from its Remove the PVC wire of the battery from the terminal.

#### Mh-35

Remove the battery if the device will not be used for a prolonged period, so as to prevent battery fluid leakage which would damage the transmitter.

cavity.

- To avoid howl from the device due to feedback, do not place the transmitter close to the main unit or the speaker when the main unit is set at high level of volume.
- Make sure to adjust the transmitter and the main unit at the same frequency when using the device.

## 8. Important Notice

- (1) JTS offers wireless systems in a selection of bands that conform to the different government regulations of specific nations or geographic regions. These regulations help limit radio frequency (RF) interference among different wireless devices and prevent interference with local public communications channels, such as television and emergency broadcasts.
- (2) For information on bands available in your area, consult your local dealer or phone JTS. More information is also available at JTS's website (www.jts.com.tw).
- (3) This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.
- (4) The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- (5) To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.