

## **General Description**

# 2.4GHz FHSS DIGITAL Transmitter/Receiver MODEL: DA911W

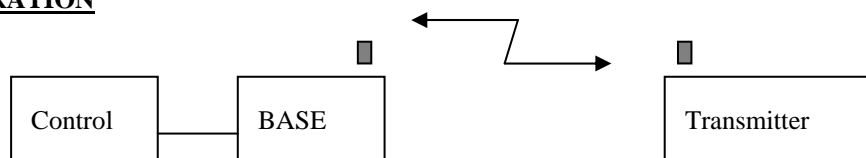
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## DA911W 2.4GHz Frequency Hopping Digital TRANSMITTER AND Base INSTRUCTION MANUAL

DA911W consists of a Base and transmitter. Read these instructions carefully for correct use and retain it for reference in future.



### SYSTEM CONFIGURATION



- 95 channels are possible in the 2400~2483 MHz bandwidth.
- Transmission range reaches up to 250 meters in free area.
- DA911W conforms to RF regulations of FCC part 15.
- Power: 12 VDC,  
Adaptor: For Charging 9VDC 500 mA Class 2 transformer wall adaptor provided.
- Interconnection: RJ jack & cord provided
- Dimension: Transmitter 118(H) X 61(L) X 27 (W) mm  
BASE 53(H) X 144(L) X 120(W) mm
- Color: black & black
- Do not use this product near water, *i.e.*, near a bathtub, wash bowl, kitchen sink or laundry Hub, in a wet basement, or near a swimming pool.

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- Do not use this product to report a gas leak in the vicinity of the leakage area.

### Radio Part (RF specification)

1. Receive sensitivity : -92~-94dBm (@BER=0.001)
2. Frequency : 2.400~2.483 GHz
3. Transmit Power : 10mW
4. Signaling Bit-rate : 576kbit/sec
5. channels : 95 (Channel spacing 0.864MHz)
6. Modulation : GFSK. Bandwidth 20dB<0.864MHz
7. RX/TX slots : 4/4
8. Fast Frequency Hopping : Up to 800hops/sec
9. Standard compliance : FCC part 15.247/249

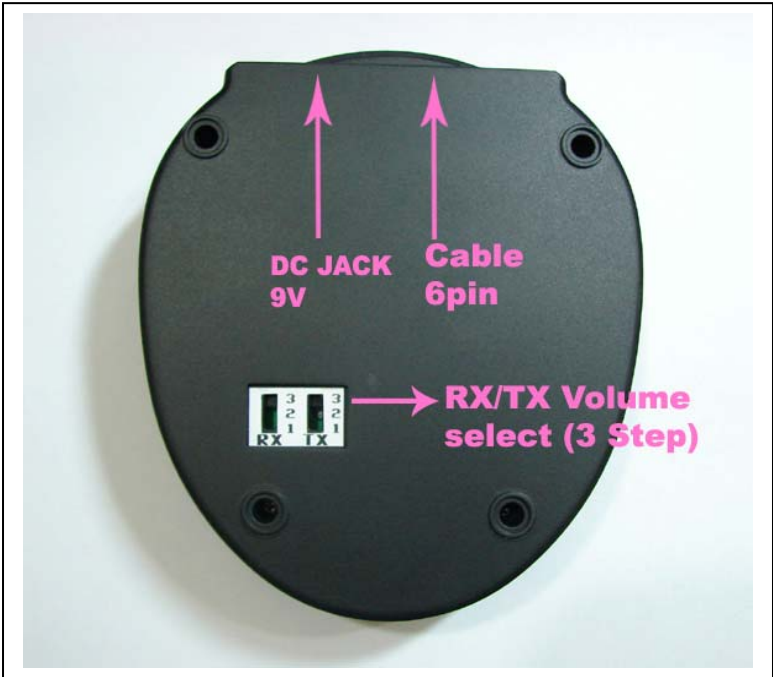
### BASE Front description



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**BASE Back description**



**Transmitter description**



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### **FEATURES**

- Longer range
- Better voice quality
- 95 channels operation
- Auto talk
- Auto stand-by
- 3 stage output power selectable
- 16 million auto-security code combination
- LED indicator for out of range warning
- High performance chipset
- Low battery LED indicator
- Li-ion battery (3.6 VDC, 1200 mAh)
- Headset/Mic Basic embedded
- TX Volume : Base digital 4 step, Switch 3 step
- RX Volume : Base Switch 3 step, Transmitter Analog Volume control
- PTT switch : Audio transmission
- Extra battery chargeable

### **PIN DESCRIPTION OF THE BASE(Docking) OUTPUT PORT**

Pin #1 : PTT switch (output from the port)

Pin #2 : TX Audio (Audio port)

Pin #3 : RX Audio (Audio port)

Pin #4 : RX Audio (Audio port)

Pin #5 : TX Audio (Audio port)

Pin #6 : PTT switch (output from the port)

### **CHARGING THE BATTERY (FULL CHARGE)**

1. Once the BASE has power connection, place the transmitter in its cradle on the BASE.
2. Leave the transmitter on the cradle for at least 12 hours for a full charge.

### **PREPARING FOR INITIAL USE**

1. Ensure that the fully charged before initial use.
2. Check line and power connections to the BASE.
3. Select the ON position of power switch (Transmitter)
4. After 5 seconds, push the TALK button of the transmitter to check the operation.

### **OPERATION**

1. Supply 12 VDC power into the BASE using the provided AC adaptor.
2. Separate the transmitter from the BASE and turn on the transmitter.
3. Push the TALK button on the transmitter. When the Green LED of the transmitter is displayed off, the communication channel between the BASE and transmitter has been setup and the

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transmitter is transmitting the audio signal. On the other hand, when the antenna icon blinks, the frequency channel between the BASE and transmitter does not match. Place the transmitter in its cradle on the BASE. Put Transmitter on the Receiver (Charging). Press and hold TR's talk button over 3 secs. Unhold the talk button. The TR+RE' Green LED is blinking several times and will be heard a confirm tone. The communication channel has been setup and the transmitter is ready to operate normally.

4. the transmitter by pressing the toggling TALK button, the transmitter is transmitting the audio signal into the BASE. If user actually want to transmit audio signal, Push the PTT switch and The Base's inuse LED is on, The Base PIN #1,#6 is short.
5. Transmitter have Volume control (Receive audio) : Analog volume  
Base (Docking) have Volume control (RX/TX) :  
TX Volume control has 4 step digital volume and 3 step switch volume and RX Volume control has 3 step switch volume control.
6. When the distance between the BASE and transmitter is out of the coverage area, TR's Green LED is blinking
7. When the transmitter is Low battery, TR's RED LED is blinking.

### SPECIFICATIONS

1. Frequency Hoping / RF channel exclusion / Dual slot Antenna Diversity
2. Audible / LED display Out of Range warning.
3. Audible / LED display Low battery warning.
4. Headset jack (transmitter, Receiver Free)
5. Charging Status Indicator (Charging / Full charge)
6. Talk On/Off Key
7. PTT switch
8. Transmitter Power switch control
9. Frequency Range: 2401.056MHz ~ 2482.272MHz
10. Up to longer Range
11. Data speed (via air interface) : 24kbit/sec
12. Modulation: GFSK
13. Channels: 95 (Channel spacing 0.864MHz)
14. Rx/Tx slots: 4/4
15. Fast Frequency hopping: Up to 800 hops/sec
16. Standard Compliance: FCC part 15.247/249
19. Talk time : 12 hours
20. Standby time: 8 days (In Range)
21. Battery Capacity : 3.6V DC Li-ion 1200mAh

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### **Trouble Shooting Guide.**

1. For initial use, Check line and power connection to the Docking(Receiver).  
And Select on position of the power switch (Transmitter)  
Please wait over 5~7 seconds (Need a time to find a Receiver)  
And Push the talk button of the Transmitter to operation.
2. If you have a link failure and does not register with Transmitter and Docking  
Please disconnect the power of the Docking and reconnect the power of the Docking(Receiver)  
Try again link and registration.