

### TABLE CONTENTS

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

FBTAC US-902D / MH-920

## 1. Important Cautions

- 1. Always make all connections before plugging the unit into an AC power
- 2. Do not leave the devices in a place neither with high temperature nor high
- 3. Always do not handle the power cord with wet hands!
- 4. Keep the devices away from fire and heat sources

- \* Operated in UHF band where there is less RF interference than the VHF
- \* Due to the PLL synthesized technology, the system offer 16 selectable
- \* The true diversity reception with 2 independent RF receivers ensure the channels for choosing.
- \* Adjustable squelch control can effectively reduce the noise. stable transmission and reception

System operation

- \* Tuned antennas can benefit the stable RF reception.
- ' Built-in Tone key Squelch & Noise Mute detection are available to restrain the interference signal.
- Rugged metal housing can pass through the difficult environment.
- Equipped with balanced XLR and unbalanced output allows great
- \* Body-pack transmitter provides phantom powering for compatibility with condenser lavalier and headset microphones

### (5.) LCD PANEL

- RF incoming signal level of RX2 1. RF incoming signal level of RX1

5. Preparing procedures & basic operation

(1.) Power output connector

(2.) Audio Output Connector

(Step 1 of Figure 1)

rearpanel of receiver, and plug another end into an AC outlet Plug in one end of AC/DC adaptor cable to DC input so cket in the

Connect one end of the AF output cable to the AF output socket in the

rear panel, then plug another end to the "MIC IN" input socket of a mixer

the proper way for use.

US-902D equipped with balanced XLR output and Unbalan output, choose

or amplifier.(Step 2 of Figure 1).

- AF incoming signal level of RX1
   AF incoming signal level of RX2
- 5. Diversity of RX1 (antenna A or B scrive)
- 6. Diversity of RX2 (antenna A or B scrive)
- 8. Channel display of RX2 7. Channel display of RX1
- 10. Mute status of RX1 9. Low batt. status of transmitter
- 12. Setting lock-on mode 11. Mute status of RX2
- AF (a)-**日** (a) 8

the channel automatically meanwhile presents the channel number. Repeat the action for pre-set 16 channels. Later the  $\overline{\text{RXI}}$  stop flashing , the receiver will store press the ▲ Up / ▼ Down button to select a suitable channel from the the  $\, \blacktriangle \, \mathrm{Up} \,$  or  $\, \blacktriangledown \,$  Down button till the  $[\![\mathrm{RXI}]\!]$  starts flashing, and again (6.) Basic operation



button in the front panel. ( Figure 2 ) (4.) Adjust the AF output level control to select a (3.) Turn the receiver on by pressing the Power

proper AF signal level. ( Figure 3 )

NOWS NOOT

After selecting channel, repress the ▲Up and ▼ Down

buttons till the HOLD starts flashing simultaneously, and the current setting is saved in memory on switch off. 



### Mh-920 Battery Insertion (1) Turning the transmitter on/off 5-2 Handheld Transmitter

The on/off switch is located on the bottom of the

(2) Inserting and changing the battery

- 1. Loosen the microphone head counter-clockwise.
- 2. Hold on to both battery tray buttons to release it. match correct polarity Insert 2 pieces of UM-3 1.5 V batteries, remember to
- 5. Aim the connectors exactly for screwing on the 4. Directly push the battery tray back. microphone head clock wise.
- (3) LCD panel Battery Low indicator Main display





# Basic operation Press the SET button to select between frequency and sensitivity.

or DOWN button to select the channel from 1-16. -Hold UP to DOWN button 2 seconds, the channel will be increased or decreased -Press UP or DOWNthe "CH" will flash. Then re-press UP Press the UP or DOWN button to adjust the channel

In 5 seconds channel will be stored upon above procedur



### Specification

### 3-1 Overall system

RF Frequency Range	600 MHz~960MHz
Oscillation Type	PLL Synthesized Control OSC
Channels	16 Channels
Audio Frequency Response	50 Hz ~ 18KHz
Band-width	24MHz
Operation Range	100 M

### 3-2 Receiver

Model No.	US-902D
Receiving Mode	Diversity
Frequency Stability	±0.005%
S/N Ratio	SEP001 <
RF Sensitivity	-107dBm (12DB S/N AD)
Image Rejection	>60dB
T.H.D.(1 KHz)	<0.6%@ 1 KHz
Display	TCD
Controls	Power On/Off, Volume Control, Channel Up/Down, Squelch level
Audio Output Level	-12dB
AF Output Impedance	2.2KQUnbalance
Squelch	Pilot Tone & Noise Mute
Operation Voltage	12-18VDC, 600mA
Output Connector	2 Balanced XLR socket 1 Unbalanced Φ 6.3 m Phone Jack
1	

Dimension(m/m)

480mm(W)\*45mm(H)\*232mm(

# System operation

Be sure to mute the audio signal of mixer or amplifier before turning on the receiver or transmitter.

- (1.) <u>Tower on</u>
  (1.) <u>Tower on</u>
  Fixed in the receiver completely counter-clockwise to the minimum level, and press the power On/Off switch on the front panel of receiver. As soon as you turn power on of receiver, the power LCD lights on, meanwhile the RF signal and AF level indicate the transaction. transmission status, and receiver is ready for operating

Always it's a good idea to keep "open space" between transmitter and receiver, that is able to improve RF reception.

- (2.) Selecting channel for the transmitter

  1.1 Use the supplied screwdriver to select a desired channel for the receiver with 16 channels. (Figure 10) handheld transmitterr. Both receiver and transmitter are preprogrammed



1.2 Press the ▲ / ▼ button to select the channel for the receiver handheld treansmitter. Both receiver and transmitter are preprogrammed with 16 channels. (Figure 11)



Then with the ▲ / ▼ button to select the channel of receiver the same as the transmitter, please make sure the receiver channel matches that of

3. When 2 or more transmitters and receivers are being use in the same channel is being interfered, please change to another channel nonlocation, they must be set up to use different channels. If existing