

Service Manual

Of

Q-1002

CHILAYO ELECTRONICS CO., LTD.

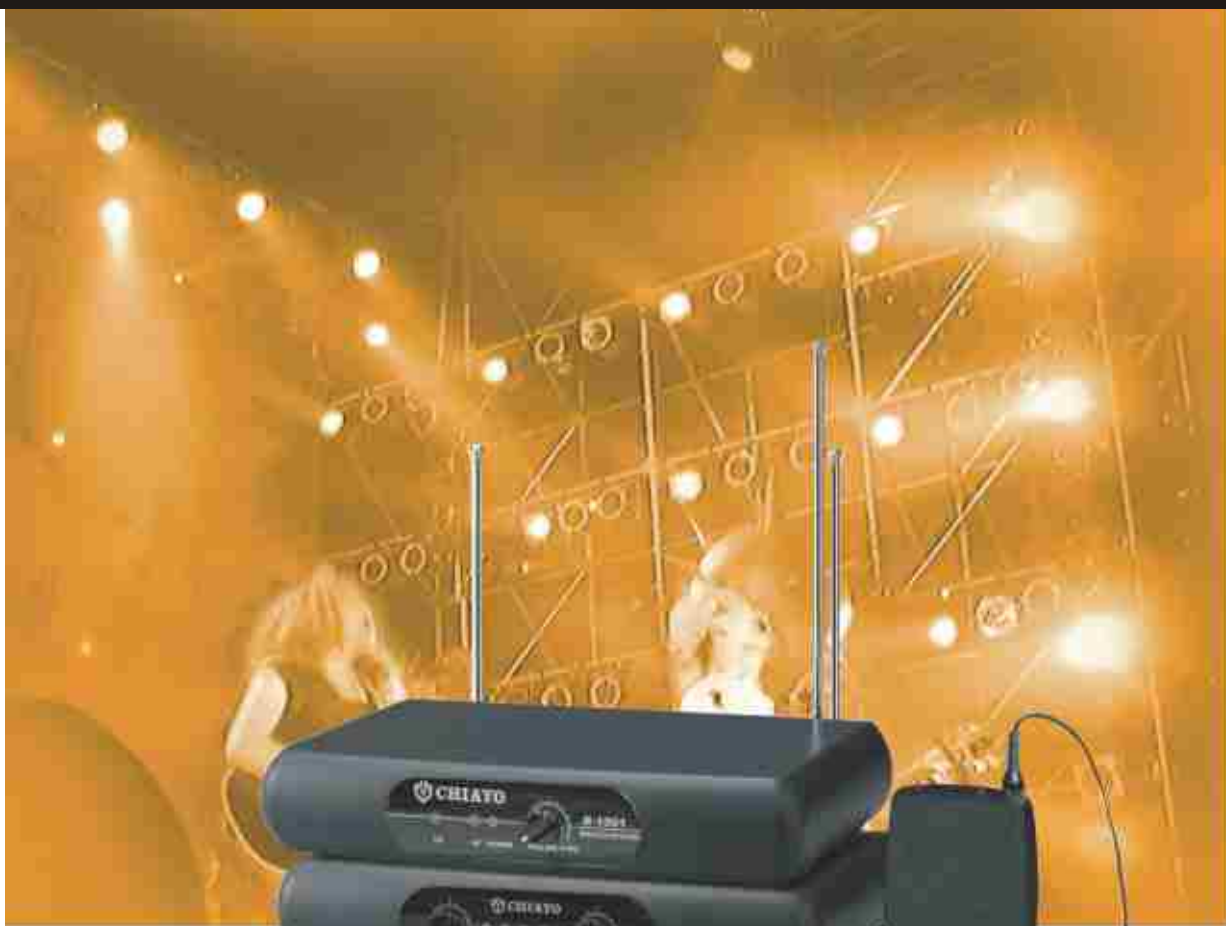
23 March, 2004

WIRELESS

Microphone

Wireless SYSTEM

R-1001/R-2001/Q-1001/Q-1002/M-1001/M-1002



Handheld Microphone



Beltpack Transmitter



Headset Microphone



Lavalier Microphone



The R-1001 single channel and R-2001 dual channel receivers are VHF high band, quartz-locked fixed frequency, and compact non-diversity receivers which equip with compatible handheld (Q-1001 and Q-1002) or bodypack (M-1001 and M-1002) transmitter.

These two compact receivers are actually dependable wireless microphone systems and specifically built for the home entertainment and unsophisticated stage market. This product line is easy to use and economical to the entry-level user, and these features, therefore, present it is well suited for the uncomplicated application which the simultaneous multi-channel usage is not required.

Specifications

RECEIVER

	R-1001	R-2001
Frequency Band	VHF	
Receiving method	Quartz locked fixed frequency	
Sensitivity	-90 dB μ V (at S/N ratio 60 dB)	
Image rejection	>60 dB	
AF Output Level	Unbalanced: max. 0 dBm(774 mV) / 5K	
Power Supply	AC/DC 12 - 15 V 500mA	
Dimension (mm)	205(L)*125(W)*35(H)	203(L)*128(W)*40(H)
Weight(g)	300g	360g

TRANSMITTER

	Q-1001	Q-1002	M-1001	M-1002
Type	Handheld		Bodypack	
Band	VHF			
Output Power	35 mW			
Spurious	>45 dB below carrier frequency			
Current consumption	< 30 mA			
Battery Life	16 hours (Alkaline)			
Battery	9V*1			
Connector	—		TMP	
Operating Frequency Range	150-270 MHz			
Carrier Stability	± 0.005% with limiting controlled			
Maximum Deviation	± 15 KHz			
Dynamic Range	> 100 dB			
S/N Ratio	> 100 dB			
T.H.D.	< 0.5%			
Frequency Response	50Hz-15KHz ± 3 dB			
Dimension (mm)	ø 53*230	ø 53*230	107(L)*62(W)*22(H)	96(L)*65(W)*22(H)

Remark : The above specifications are subject to change without prior notice.
** Output power varies from version to version.

R-1001



R-2001



Q-1001



Q-1002



M-1001



M-1002



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HAND-HELD Microphone (Q-1002)

Handheld Microphone Parts and Functions

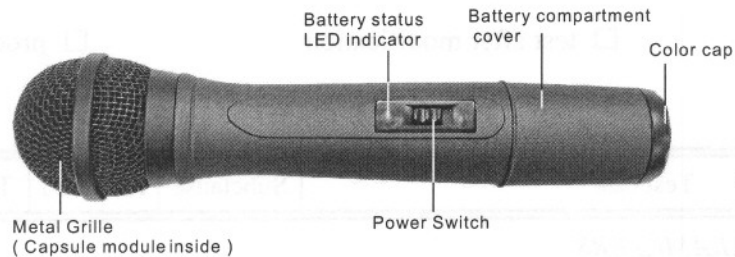


Fig.1

Battery Installation

Q-802 uses 1 piece of 9V battery. To install new or replace the old battery, First unscrew the battery cap from the battery compartment, then insert the new battery according to its correct polarity as indicated. For longer Operation hour, Alkaline battery is recommended!

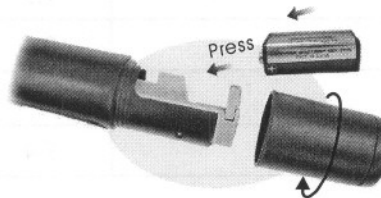


Fig.2

- After putting the battery cover back to the housing, slides the switch to "ON" position as shown in Fig. 3.

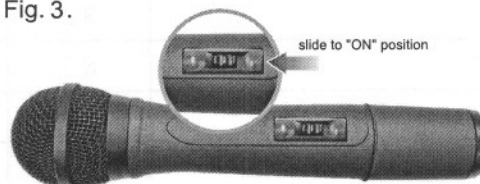


Fig.3

- As soon as the switch is on, the battery-status indicator will give a flash, indicating a normal operation. If there is no flash, it indicates either power supply is not available or battery is installed wrongly.
- After switching on, the RF signal indicator LED(s) of matching receiver will light up, indicating the microphone signal transmission is in normal operation.
- Switch off the power switch when the microphone is not in use, meanwhile, remove the battery out of microphone if it is not in use for an extended period.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example – use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.