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## Product Specifications QV -7T Series



Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

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.

**Product Overview**

The QV -7T series product is designed specifically for the tour excursions and commercially named as Tour Guide System (TGS).

The TGS consisting a low power transmitter which provides a one way communication addressing to multiple receivers operating on the same channel.



FM Transmitter  
Model No. QVT19-7T



FM Receiver  
Model No. QVR29-7T

There are two versions available in the QVT-7T series, the CE version and FCC version identifies by extension of the model number, color codes and display ID as per the following:

1) Model No. QVT19-7T-864

Description : FM Transmitter, CE version, 40 Channels, 863.000~865.000MHz.

Color Code : White

Display ID : EU



1) Model No. QVR29-7T-864

Description : FM Receiver, CE version, 40 Channels, 863.000~865.000MHz.

Color Code : White

Display ID : EU



1) Model No. QVT19-7T-926

Description : FM Transmitter, FCC version, 40 Channels, 925.000~927.000MHz.

Color Code : Red

Display ID : US



1) Model No. QVR29-7T-926

Description : FM Receiver, FCC version, 40 Channels, 925.000~927.000MHz.

Color Code : Red

Display ID : US



### Initial setup

The transmitter (Tx) and Receiver (Rx) must perform an initial setup prior to operation. The setup is simply program the corresponding channel number between the Tx and Rx.

### Setup the Tx

- 1) Press and hold the [V] button and power up by sliding the [Power] switch located on the right side simultaneously as shown below:



- 2) Release the [V] button after powered, a screen similar to below is displayed:



- 2) While the “>” cursor is pointing the Ch=xx, momentary press the [ENTER] button to adjust the channel selection 1~40 as shown below:



- 3) While the channel number is highlighted, press the [^] button to increase or [V] button to decrease.
- 4) Press the [ENTER] button once to exit channel selection when done. The “>” cursor should have moved back to most left position and channel highlighting is off.
- 5) Press the [V] button once and move the “>” cursor next to “Exit” .
- 6) Press the [ENTER] button to exit channel selection and setting is saved.
- 7) Reset power of the Tx for normal operation.

**Setup the Rx**

1) Connect the external display to the bottom of the Rx as shown below:



2) Press and hold the [Volume Up] button and power up by sliding the [power switch] on the side.



3) Release the [Volume UP] button and note that the display is on as shown below:



4) While the “>” cursor is pointing the Ch=xx, momentary press the [Volume Down] button to enter the channel selection as shown below:



- 5) While the channel number is highlighted, press the [Volume Up] button to increase.
- 6) Press the [Volume Down] button once to exit channel selection when done. The “>” cursor should have moved back to most left position and channel highlighting is off.
- 5) Press the [Volume Up] button once and move the “>” cursor next to “Exit” .
- 6) Press the [Volume Down] button to exit channel selection mode and setting is saved.
- 7) Turn off the Rx and remove the external display.
- 8) Reset power of Rx for normal operation.

**Channel No. vs Operating Frequency**

926MHz		864MHz	
Chan.No.	Freq.MHz	Chan.No.	Freq.MHz
01	925.025	01	863.025
02	925.075	02	863.075
03	925.125	03	863.125
04	925.175	04	863.175
05	925.225	05	863.225
06	925.275	06	863.275
07	925.325	07	863.325
08	925.375	08	863.375
09	925.425	09	863.425
10	925.475	10	863.475
11	925.525	11	863.525
12	925.575	12	863.575
13	925.625	13	863.625
14	925.675	14	863.675
15	925.725	15	863.725
16	925.775	16	863.775
17	925.825	17	863.825
18	925.875	18	863.875
19	925.925	19	863.925
20	925.975	20	863.975
21	926.025	21	864.025
22	926.075	22	864.075
23	926.125	23	864.125
24	926.175	24	864.175
25	926.225	25	864.225
26	926.275	26	864.275
27	926.325	27	864.325
28	926.375	28	864.375
29	926.425	29	864.425
30	926.475	30	864.475
31	926.525	31	864.525
32	926.575	32	864.575
33	926.625	33	864.625
34	926.675	34	864.675
35	926.725	35	864.725
36	926.775	36	864.775
37	926.825	37	864.825
38	926.875	38	864.875
39	926.925	39	864.925
40	926.975	40	864.975

**Operating – Tx (Stand alone operation)**

- 1) Turn the Tx to on by sliding the [Power Switch] to upward position.
- 2) Hold the Tx in vertical position to transmit, opposite to stop transmit.
- 3) Maintain a distance of about 5cm between the mouth and microphone for best result. The integrated microphone is located above the display as shown.

Integrated  
Microphone



Active  
Transmit on



Standby  
Transmit off

- 5) Turn power to off when not in use.

**Operating – Tx (External Microphone)**

- 1) Turn the Tx to on by sliding the [Power Switch] to upward position.
- 2) Connect the external microphone to the 3.5mm jack.
- 3) Switch the microphone switch to “ON” position to make commentary or “OFF” position to stop transmission.
- 4) Maintain a distance of about 5cm between the mouth and microphone for best result.
- 5) Turn power to off when not in use.

External  
Microphone



Microphone  
Switch



**Operating – Rx**

- 1) Turn the Rx to on by sliding the power switch to upward position.
- 2) Note that the Green LED is blinking signifies in standby condition.



- 3) Insert the earphone to the connector.



- 3) Adjust the volume to a comfortable level by pressing the [Volume Up] and [Volume Down] button.
- 4) Turn off the unit when not in use.

Technical details

Type of Equipment	Tour Guide System
Type designation	QV -7T series
Operating frequency	863.025MHz ~ 864.975 EU version
	926.025MHz ~ 926.975 US version
Type of Modulation (ITU designation)	50KF3E
Channel separation	50kHz
Number of channels	40
Frequency stability	5ppm
Antenna type and length	Tx, Rx Micro strip integrated antenna, 1/4 Wave, Unity Gain.
FM Deviation (Normal)	2.5kHz
FM Deviation (Maximum)	5.0kHz
Microphone (Internal and External)	Electret Condenser Microphone, Impedance: <math><2.2k\Omega</math>
	Sensitivity: -55dB $\pm$ 3dB
Carrier Power (ERP)	Less than 10mW
Spurious emission (ERP)	Less than -36 dBmw
Transmitter control	Up down directional on/off switch and Voice operated
Duty Cycle - Class	Continuous transmission possible
Power supply	Tx : 2 x AAA battery (1.5V Each)
	Rx : 2 x AAA battery (1.5V Each)

End.