



**QR-2000**

**TRUE DIVERSITY RECEIVER**



CE

**OPERATING MANUAL**



**QUANTUM5X SYSTEMS INC.**

30 ADELAIDE STREET NORTH SUITE 12  
LONDON ONTARIO CANADA N6B 3N5  
WWW.QUANTUM5X.COM INFO@QUANTUM5X.COM  
PH: 519-675-6999 FAX: 519-667-2162

# INTRODUCTION

Congratulation and thank you for the purchase of one of these state-of-the-art PLL Synthesized 1000 channels frequency agile UHF professional wireless systems.

The following table gives an over view of the individual system.

## System Overview

Models	QR-2000
Frequency Band	UHF
No. Of Channel	2*1000
Receiving Mode	True Diversity
No. of Receiver	2
AC Adapter	12-15 / 1500 mA
Size	19"
Casing	Metal
Receiver LCD Color	White in Blue LCD

As this is a shared operating manual, please read it thoroughly to familiarize with the function of each part before use.

The Volume Control of the receiver is set too high, it may over-drive the input of the mixer, causing distortion. Conversely, if the receiver output is set too low, the overall signal to noise ratio of the system may be reduced. Adjust the output level of the receiver such that highest sound pressure level going into the microphone causes no input overload in the mixer, and yet permits the mixer level controls to operate in their normal range (not too high or too low ).

This provides the optimum signal to noise for the entire system.

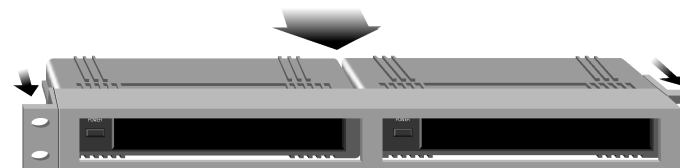
## The functions of USB port

THIS FUNCTION IS NOT OPERATIONAL AT THIS TIME

## SCAN function

THIS FUNCTION IS NOT OPERATIONAL FOR FUTURE USE ONLY

# RACK MOUNTING



## REMARKS

### RF Interference

If you encounter receiving interference (from other than an operating TV station), often it can be overcome by adjusting the receiver's squelch control, as described below. Please note that wireless frequencies are shared with other radio services. According to FCC regulations, wireless microphone operations are unprotected from interference from other licensed operations in the band. If any interference is received by any Government or non-Government operation, the wireless microphone must cease operation. The above statement is valid in the U.S.A.

### Receiver Squelch setting

The squelch control setting is per LCD display on the front panel of the receiver is preset at the factory, but can be adjusted if you must use the system in a high RF interference area. If there is audio output from the receiver when your transmitter is OFF, adjust the squelch control so the system will receive the signal from your transmitter but squelch or eliminate the unwanted background RF noise. This adjustment can cause a reduction in usable range of the wireless transmitter, so set the control to the lowest position which reliably mutes the unwanted RF signal.

## TIPS TO OBTAIN THE BEST RESULTS FOR A WIRELESS MICROPHONE SYSTEM

1. If external antenna is used, low loss RF shielded cable should be used and the length of the cable should not exceed 3m.
2. Do not place the receive antenna within 1 m of another receiver or antenna.
3. The receiver antenna should be kept away from any metal surface.

### To change Squelch level

Press **MENU** until this page appears.



Press **SET** button for 2 seconds to enter the **SET** mode and the cursor will flash on only one spot. Use the **UP/DOWN** button to select one of the 8 preset levels. After making the change, press **SET** button for about 3 seconds will save the changes.

### To go to User Mode

Press **MENU** until this page appears.



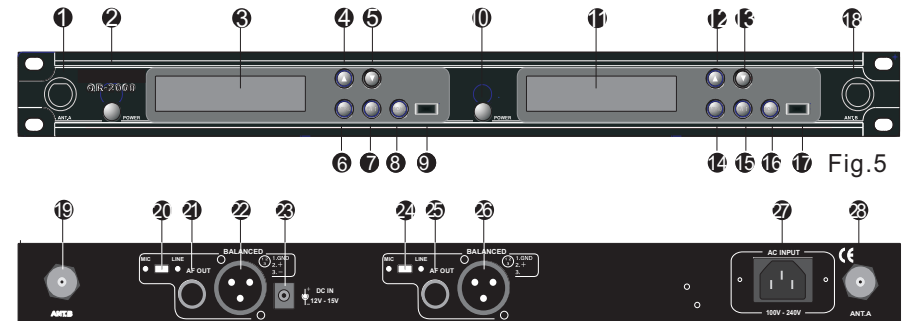
Press **SET** button for 2 seconds to enter the **SET** mode. Use the **UP/DOWN** button to select either **USER** or **PRESET** mode **LEFT ARROW** indicates selected. After making the change, press **SET** button for about 3 seconds will save the change.



Press **SET** button for 2 seconds to enter the **SET** mode and the cursor will flash. Use the **UP/DOWN** button to select the digit desired. The two digits at the top right corner is Channel. There are 40 possible channels to be entered by user. After selected the channel, make the corresponding change to the frequency. After making all the changes, press **SET** button for about 3 seconds will save the change in Group 25.



### QR-2000 RECEIVER



- |                                 |  |
|---------------------------------|--|
| 1. Slot for front mount Antenna | 15. SET                                    |
| 2. Power switch                 | 16. SCAN                                   |
| 3. LCD Display                  | 17. USB port                               |
| 4. UP button                    | 18. Slot for front mount Antenna           |
| 5. DOWN button                  | 19. Antenna B                              |
| 6. MENU                         | 20. Mic / Line level Switch                |
| 7. SET                          | 21. Unbalanced Out                         |
| 8. SCAN                         | 22. Balanced Out.                          |
| 9. USB port                     | 23. DC IN jack                             |
| 10. Power switch                | 24. Mic / Line level Switch                |
| 11. LCD Display                 | 25. Unbalanced Out.                        |
| 12. UP button                   | 26. Balanced Out                           |
| 13. DOWN button                 | 27. AC IN jack ( for certain market only ) |
| 14. MENU                        | 28. Antenna A.                             |

Fig.6

## To view and roll the various display pages

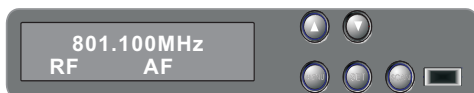
Press Power ON of receiver for 2 seconds and release, the following page Will appear.



Remark : Transmitter is at OFF status.  
After 5 seconds one of the following pages will automatically appear, Depending which one was last selected as main page.



Press MENU will roll to next page



If MENU is not pressed again, this page will stay as main page.

Press MENU will roll to next page



If MENU is not pressed again, it will automatically return to one of the 3 main pages.

Press MENU will roll to next page



If MENU is not pressed again, it will automatically return to one of the 3 main pages.

Press MENU will roll to next page



If MENU is not pressed again, it will automatically return to one of the 3 main pages.

Press MENU will roll to next page



If MENU is not pressed again, this page will stay as main page.

Press MENU will roll to next page



If MENU is not pressed again, this page will stay as main page.

## Operating Instructions

### Making changes to the various displays.

Press MENU until this page appears.



Remark : Brand name and Model number are factory preset. It is NOT user-changeable.

### To change User Name

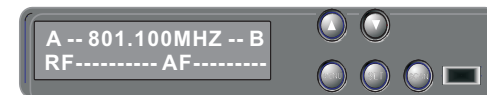
Press MENU until this page appears.



Remark : Transmitter is ON, then A or B, RF & AF level indicator will light up. Press SET button for 2 seconds to enter the SET mode and the cursor will flash. Press SET again each time will move the cursor one position. Use the UP/DOWN button to select the character or digit. Press SET again will make the change and move the cursor one position forward. After finishing all the changes, press SET button for about 3 seconds to save the changes.

### To change Frequency

Press MENU until this page appears.



Press SET button for 2 seconds to enter the SET mode and the following display will appear and the cursor will flash.



Press SET again each time will move the cursor one position. The first two top digits on the left is the Group and the second top two digits to the right is the Channel. There are all together 25 Groups and 40 Channels (  $25 \times 40 = 1000$  ) preset frequencies to be chosen. Use the UP/DOWN button to select the digit. Press SET again will make the change and move the cursor one position forward. Once either the Group or the Channel has been altered, the frequency will be changed automatically. After finishing all the changes, press SET button for about 3 seconds will save the changes.