

# Adjustment instrucion

**PUBLIC PARTS (commissioning equipment: VOLTAGE METER):**

- 1、BATTERY VOLTAGE:  $7.4V \pm 0.1V$ .  
FREQUENCY RANGE: 136-174MHz.
- 2、check RX VCO lock voltage: high end:  $3.5V \pm 0.2V$ .  
Low end: 0.6V.
- 3、check TX VCO lock voltage: high end:  $3.8V \pm 0.2V$ .  
Low end: 0.6V.

**Transmitting part ( commissioning equipment : AEROFLEX3920,3A standard power supply. tesing software: PX-800 programming software)**

- 1、Frequency adjust: nominal frequency  $\pm 50\text{Hz}$ .
- 2、Adjust high power: 4.68W. check the  
average current  $\leq 1.0\text{A}$ .
- 3、Low power adjust: 1.50W. check the current  
 $\leq 0.8\text{A}$ .
- 4、Bit error rate adjustment: adjust the MOD1, MOD2 amplitude separately, make 4FSK  
level +3、-3 deviation value is  $\pm 1.944 \pm 0.1\text{kHz}$ , +1、-1 deviation  $\pm 0.648 \pm 0.1\text{kHz}$ , bit error  $\leq 3\%$ .

**Receiver part (commissioning equipment: AEROFLEX3920, 3A standard power supply. tesing software: PX-800 programming software)**

RX audio power: check the maximum audio power:  $1.0 \pm 0.2\text{W}$ . current  $\leq 0.4\text{A}$ .

- 1、RX sensitivity adjustment:

Signal source output the standard digital signal, the amplitude is -116dBm, adjust the sensitivity items in the RDR3500V, RDR3600V software for the RX PCTV voltage of high, middle, low 9 frequency points in total, and make all the RX bit error rate are less than 3%.