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Service Card

- Machine parameters

Basic parameters

Frequency range: Receive: 0.5~30MHz (Continuous) All HF Amateur bands including WARC bands Transmitting: Operating mode: SSB (J3E) CW (A1A)AM (A3E) minimum frequency stepping: 1Hz Antenna impedance: 50Ω Operating temperature range: -10°C ~ +60°C Frequency stability: ± 0.5 ppm @ Open the power about 5 minute , $-10^{\circ}C \sim +60$ Operating voltage: 12~14.5V DC Current draw: Receiving: 600mA @Max Transmitting: 7.5A @ Max Dimensions (mm): 120*45*180 (mm) [Does not include the Front and rear handles and the Knob etc bulge.] **Transmitter parameters Transmitter power:** More than <u>15W (@13.8V)</u> Modulation mode: SSB balanced modulation: AM Low level modulation Spurious response rejection: \geq 40dBc Carrier suppression: ≥45dBc IF filter: 2.4kHz(-6dB) SSB CW 500Hz(-6dB) **Receiving parameters** IF Frequency: 10.7MHz

receive sensitivity:	$0.5 \mathrm{uV}(\mathrm{PRE}\mathrm{ON}, \leq 2.0 \mathrm{MHz})$
	0.3uV (PRE ON, >2.0 MHz)

Receive Frequency bands: 1.8~2.0MHz 3.5~4.0MHz 5.0~5.5MHz 7.0~7.3MHz 10.0~10.2MHz 14.0~14.5MHz 18.0~18.2MHz 21.0~21.6MHz 24.8~25.0MHz 28.0~28.8MHz 0.5~30.0MHz (*) Dynamic range: Better than 90db RIT Frequency control range: ± 1 kHz audio output: 0.5W@8 Ω

____ Description of equipment

2.1 Front panel Description

VOL/PWR



- 2. Hand microphone socket
- 3. Display screen₽
- 4. Multifunction key
- 5. Frequency knobe
- 6. UP key⊬

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2

- 7. DOWN key⊎
- 2.2 Rear panel Description



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F1

F2 F3 F4

FIL

TIME

X108G HF TRANSCEIVER

- 1. SO-239 Antenna Jack.
- 2. AUX
- 3. External speaker output
- 4. CW key input.
- 5. ACC port.
- 6. USB port.
- 7. DC power input
- 8. Ground connection.

2.3 Microphone

- 1. Lock button/ Press it unlock again
- 2. PTT button
- 3. Up / Down frequency/channel
- 4. Receiving indicator
- 5. Multifunction
- 6. Filter selection buttons
- 7. Mode selection button
- 8. No indication
- 9. F1/F2 Custom set key
- 10. Memory write button
- 11. Frequency/Channel switching button
- 12. VFO-A / VFO-B switching button
- 13. No function

三、 Operating instructions

3.1 Screen displays instructions



TS+ Increase frequency stepTS- Reduce frequency step

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13

11

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12

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10

Mic element

[ATT] Switch receive signal attenuator on or off.[PRE] Switch receive preamp on or off.



- [MODE] Select desired operating mode CW/AM/LSB/USB.
- [AGC] Select AGC level FAST/SLOW/OFF.
- [NB] Select NB level between 1 and 4.
- (A/B) Switch between VFO A & VFO B.



- [A=B] Set VFO A the same as VFO B.
- [SPLT] Select SPLIT operating mode.
- [RIT] Select RIT mode adjust via selector knob B, setting shown on RIT display in OLED.
- [POW] Set RF output power adjust via selector knob B,

level displayed via red line in OLED



[V/M] Select VFO or Memory mode. Select channel/frequency using selector knob B.

[M>V] In memory mode, move current frequency to VFO and switch to VFO mode.

[MW] In VFO mode, store current frequency and settings in memory.

[MC] In memory mode, clear selected memory channel.



[FIL] Select filter

(KEY) Select keyer - Manual/Auto L/Auto R.

[KSPD] Select keying speed - adjust via selector knob B, speed displayed under KEY in OLED [TIME] Set Internal Clock - adjust via selector knob B, select hour/minute with Up/Down buttons.



[SQL] Select to adjust Squelch level via selector knob B, level shown on line display in OLED.[VCMP] voice compression settings

3.2.2: Mode Switching

Method 1: Press the frequency knob to switch the current menu page, then press [MODE].

Press corresponding multifunction button, to complete mode switching.

Method 2: On the multifunction digital microphone in hand, press to complete the mode switching.

3.2.3: Filter Switching

Method 1: Press the frequency knob to switch the current menu page, then press [BW].

Press corresponding multifunction button to complete filter switching.

Method 2: On the multifunction digital microphone in hand, press

to complete filter switching.



MOD

3.2.4: Preamplifier on/off

Press the frequency knob to switch the current menu page, then press [PRE].

When the preamplifier is on, PRE will be highlighted green. When the preamplifier is

off, PRE will appear dark.

3.2.5: Attenuator on/off

Press the frequency knob to switch the current menu page, then press [ATT].

When the attenuator is on, ATT will be highlighted green. When the attenuator is off, ATT will appear dark. The attenuator provides 10 dB attenuation.

3.2.6: Automatic Gain Control on/off

Press the frequency knob to switch the current menu page, then press [AGC].

AGC options are Fast or Slow with the screen showing the current status. Press [AGC] again to exit.

3.2.7: Noise Blanker on/off (if equipped)

Press the frequency knob to switch the current menu page, then press [NB]. The Noise Blanker offers depth of NBI thru NB4, with the screen showing the current status.

3.2.8: Switching between VFO-A / VFO-B

Press the frequency knob to switch the current menu page, then press [A/B]. You can toggle between VFO-A and VFO-B.

3.2.9: Set both VFO's to the same settings

Press the frequency knob to switch the current menu page, then press [A=B]. The settings of the current VFO will transfer to the second VFO.

3.2.10: Split frequency operations

Press the frequency knob to switch the current menu page, then press [SPLIT].

The radio will receive on VFO-A and transmit on VFO-B.

3.2.11: RIT tuning

Press the frequency knob to switch the current menu page, then press [**RIT**]. Turning the frequency knob will change the receive frequency but leave the transmit frequency unchanged. Pressing [**RIT**] again will exit this mode.

3.2.12: Transmit power setting

Press the frequency knob to switch the current menu page, then press [POW]. The on-screen power status will be highlighted. Rotate the frequency knob to select the desired power setting and press [POW] to exit.

3.2.13: Switching between Frequency Mode / Channel Mode

Press the frequency knob to switch the current menu page, then press [V/M].

Press this function key to move between frequency mode and channel mode.

3.2.14: Move current channel to VFO

Press the frequency knob to switch the current menu page, then press [M>V].

The radio will switch to VFO mode, showing information from the current channel.

3.2.15: Save current settings to Memory

Press the frequency knob to switch the current menu page, then press [V/M] to choose channel mode. Turn the frequency knob until "BLANK" is highlighted.

Press [V/M] to return to frequency mode. Adjust frequency, operating mode and other parameters desired, then press [MW] to write this information to memory.

3.2.16: Delete the current channel

Press the frequency knob to switch the current menu page, then press [MC] to clear

the information stored in the current channel.

3.2.17: Manual / automatic telegraph key

Press the frequency knob to switch the current menu page, then press [KEY]. Choose Manual Key, Automatic Left Hand telegraph key or Automatic Right Hand telegraph key.

3.2.18: Automatic telegraph key rate

Press the frequency knob to switch the current menu page, then press [KSPD].

Turn the frequency knob to set the automatic key rate

3.2.19: Set the local time

Press the frequency knob to switch the current menu page, then press [TIME].

Then press the corresponding number keys on the microphone to set the local time.

3.2.20: Setting squelch level

Press the frequency knob to switch the current menu page, then press [SQL].

Turn the frequency knob to set the squelch depth. Press [SQL] again to save the squelch setting and exit.

3.2.21: Set voice (speech) compression ratio

Press the frequency knob to switch the current menu page, then press [VCMP]. Adjust the compression ratio as desired.

3.2.22 HRD Software

When you connect your computer by the HDR, you can select IC7000 model to operating.

3.3 Extended Interface



[AUX] No function

(SPK) External speaker output

Speaker or Headphone(3.5 stereo Socket); Otherwise it will damage the rig. Before using the headphone, please decrease the volume.

[KEYER] Telegraph Key





anual integration. You can switch in

Pin Definitions

- 1: 9V Power Output
- 2: PTT Signal Output
- 3: Wave Bands voltage output
- 4: ALC voltage output
- 5: External Audio input
- 6: Ground

Band voltage parameter

BAND	LEVEL	BAND	LEVEL	BAND	LEVEL
1.8MHz	0.33V	10MHz	1.33V	21MHz	2.33V
3.5MHz	0.67V	14MHz	1.67V	24MHz	2.67V
7MHz	1.00V	18MHz	2.00V	28MHz	3.00V

USB USB port

PC control or firmware update

(DC IN) Power port

Power socket polarity, as shown:



Note: Power input range: 12~14.5V DC

Do not exceed the input voltage range and Reverse Access to power.



3.4. Advanced Menu Settings

CAUTION: THESE SETTINGS ARE DIRECTLY RELATED TO THE CORRECT OPERATION OF THIS RADIO. PLEASE EXERCISE CAUTION. PLEASE RECORD AND SAVE ALL ORIGINAL FACTORY SETTINGS BEFORE MAKING ANY ADJUSTMENTS. To enter menu setting mode: Power off radio. Press and hold F1 button while powering on.

- 1. IF SSB: SSB IF
- 2. IF CW: CW IF
- 3. BFO LSB: BFO value LSB mode
- 4. BFO USB: BFO value USB mode
- 5. BFO CW: BFO value of the CW mode
- 6. CW Tone: CW side tone pitch frequency adjustment
- 7. CW TDly: CW launch delay
- 8. TOT:
- 9. Britns:
- 10. DDSCLK: System Clock
- 11. DCLKx6: DDS multiplier settings
- 12. System Audio Settings
- 13. F1 Custom set key
- 14. F2 Custom set key



Item 1 to 5, cannot be freely modified, otherwise it will lead to the transceiver exception or even not work.

Item 6, for CW Receiving side tone pitch adjustment. Users can according to their preferences and habits, adjusting CW side tone.

Item 7, for CW transceiver delay. Users can operate according to their own habits, appropriate changes this parameter to match the transmitters speed.

Item 12, Audio settings for the system, If the system beep or CW side tone is too high, then you can to adjust your volume size by item.

- Press the frequency Key, choose current item.
- Press the "up" or "down" button in the Mic, can select different items.
- Via the Mic keypad Can direct input any value.
- After setting, press save key to save and to automatic withdrawal.
- If press Exit, not save.

Warranty Information

General: Import Communications / Wouxun.US does not offer any type of Free Trial, Remorse-buy, Trade-in or Evaluation returns. All items are backed only by the factory warranty. In the event a refund is issued (except for DOA), the refunded amount will be less shipping charges and less a 10% restocking fee.

X108G Specific: Warranty is for a period of one year after the date of purchase (determined by receipt) and strictly follows this time schedule:

0 - 10 Days: Upon notification that a radio has arrived DOA, the dealer will furnish a return shipping label, the customer will return the radio to the dealer and the radio will be replaced by the dealer.

10 - 365 Days: Upon notification that a radio is defective, Xiegu-China will provide pickup information to DHL for shipment to the factory for repair. If the defect is a factory defect, the radio will be repaired and returned to the customer free of charge. If the defect has been caused by the customer, Xiegu-China will inform the customer of the repair costs plus cost of return shipping.

Beyond 1 year: The customer is responsible for shipping costs to the factory. Upon receipt of the defective radio, Xiegu-China will inform the customer of the repair costs plus the cost of return shipping.