A Quick Reference Guide for the X1M Transceiver

Technical Specifications

Receive:	0.1 - 30MHz
Transmit:	Band 1 3.5 – 4.0 MHz (80 Meters)
	Band 2 7.0 – 7.3 MHz (40 Meters)
	Band 3 14.0 – 14.35 MHz (20 Meters)
	Band 4 21.0 – 21.45 MHz (15 Meters)
	Band 5 28.0 – 29.7 MHz (10 Meters)

Operating modes: USB, LSB, and CW.
Receiver sensitivity: better than 0.45 µVolts.
RF power output: 4.5 Watts.
Frequency stability: better than 0.5 parts per million.
Memory storage locations: 32 pairs of VFO settings (both VFOa and VFOb)
Operating voltage: 9.6 – 14.5 Volts DC
Receive/Standby current: 0.5A
Transmitting current: 1.8A, Max
Size: 97 x 40 x 155 mm [3-13/16 x 1-9/16 x 6-1/8 inches]

Connecting the Radio

- The power jack is a standard 5.5 x 2.1 mm jack coaxial power jack. The center pin is the positive connection, and the outer shell is the negative connection.
- A key or paddle is connected with a standard 3.5 mm stereo plug. For "straight key" operation, use only the tip and sleeve, and leave the ring floating.
- The RF antenna connection is the standard BNC female connection.
- The COMM connection – this is a 9 pin RS-232 connector for computer interfacing. An appropriate adapter cable is available for computer connection. **Do not plug the radio directly into a computer fitted with an RS-232 connection.**
- A set of headphones may be plugged into the headphone jack on the back panel.
- The supplied microphone plugs into the front panel

Screen Icons

- **R / T** Receive mode /Transmit mode.
- **USB/LSB/CW** Current operating mode.
- **PRE** Receive pre-amplifier is on when there is a solid dot on the icon.
- **SPL** Split-Frequency Mode is on when there is a solid dot on the icon.
- **Key Icon** Keyer speed.
- **RIT** Receiver Incremental Tuning.
- **CH00** Memory mode operating channel being used. No digits shown when in VFO mode.
- **14.270.000** VFO mode current operating frequency.
- **V-B** VFOb frequency.
- **V-A** VFOa frequency.
- **KYR** Keyer mode. Manual, auto left, auto right.
- **Lock Symbol** Keyboard lock mode. All functions except on/off and volume disabled.
- **Loudspeaker** Mute on/off for indicator "beeps."

Operating Controls

Power off/on and volume – This is the knob on left side.

There are a series of four menus, which are accessed though successively pushes of the frequency knob on the right hand side of the front panel.

Function key F1

TS+: Frequency Step up. Underline shows digit that can be changed.
MD: Mode for LSB-USB-CW.
A/B: Toggle between VFOa and VFOb.

A=B: Set VFOa and VFOb the same. Active VFO into inactive VFO
TS-: Frequency Step down. Underline shows digit that can be changed.

Function key F2

V/M: Frequency mode or Channel mode.
MC: Erase a channel.
V>M: Save the setup frequency and mode.

Function key F3

PRE: Turn the preamplifier on or off.
KS: Keyer speed.
SPL: Run in "split" mode.

Function key F4

RIT: Receiver incremental tuning on/off. If on, set with frequency knob.
MUT: Mute the system beep.
KYR: Key mode (manual, automatic left hand, or right hand mode).

Changing the Frequency Setting – This is done with the right-hand knob. Rotate to set the radio to the desired frequency. Use F1 or F5 to move to the desired digit to change.

Storing Frequencies into Memory

1 – Set VFO frequency and transmit mode as desired.
2 – Press the V/M button to enter memory mode.
3 – Rotate the frequency knob until the word "blank" appears above a channel number.
4 – A long press of the V>M button stores the VFOs and modes into the desired channel. Press a second time to confirm.

Channel selection is determined in memory mode by rotating the frequency knob.

Doing "splits" with the two VFOs

Set desired *transmit* frequency into VFOb. Set the desired *receive* frequency into VFOa. Activate the SPL mode.

Systems Menu

Rotate the frequency knob to select the desired menu item. Press the knob again the allow alteration of the value. Use the frequency knob and F1/F5 keys to select the desired digit. When you are done, press LK/SYS again for a "Yes – No" to save or not save the settings. Use the frequency knob to select "Yes" or "No." Press the frequency knob to make your selection and return to normal operation.

01. IF OFST: Set the intermediate offset frequency.
02. LSB BFO: Set the LSB BFO frequency.
03. USB BFO: Set the USB BFO frequency.
04. CW BFO: Set the CW BFO frequency.
05. CW TONE: Sets the side tone value in CW mode.
06. CW TDLY: CW transceiver delay.
07. KYR SPD: Speed for automatic keyer rate adjustment.
08. TXP TIM: Transmitting time set.
09. BRITNES: Screen intensity setting.
10. CNTRST: Screen contrast setting.
11. FBND TX: Inhibit transmission on non-amateur frequencies.
12. DDS CLK: DDS clock setting.
13. DDS MLT: RCLK Ratio DDS frequency setting.
14. RST ALL: Reset all parameters to factory values. Mode, channel memories, etc., are not altered.

12/18/13