X1M
QRP TRANSCEIVER

All Bands
0.5 - 30 MHZ
USB, LSB & CW
5 Watts / 100 Memories
Controllable by Computer

Technical Specifications

Frequency Range RX & TX	**0.1 - 30 MHZ***
Modes	**USB, LSB & CW**
Power Output	**5 Watts**
Operating Voltage	**9.6 - 14.5 vdc**
Operating Current	**0.35 - 1.2 amps**
Receiver Preamplifier	**Yes**
Memory Channels	**100**
RIT Function	**Yes**
Automatic Internal CW Keyer	**Yes**
Backlight On/Off	**Yes**
Keyboard Lock	**Yes**
Dimensions	**3-13/16 x 1-9/16 x 6-1/8 inches**
Weight	**0.65 kg ~ 1.43 lbs**
PTT Microphone	**Included**
Computer Control	**via Ham Radio Deluxe**

* 5 ham Bands configured separately with optimized filters

Band 1	**3.5 ~ 3.9 MHZ**
Band 2	**7.0 ~ 7.15 MHZ**
Band 3	**14.0 ~ 14.5 MHZ**
Band 4	**21.0 ~ 21.45 MHZ**
Band 5	**28.0 ~ 29.7 MHZ**

*Other Bands via main VFO

Receiving Sensitivity	**better than 0.45uV**
RF Output Power	**4.5 ~ 5.0 watts**
Frequency Stability	**better than 0.5 ppm**
Frequency Accuracy	**better than 0.5 ppm**
Receiver Standby Current	**0.5 amps**
Transmit Current	**1.5 amps max**

Main Features

The X1M is a small, easy to carry, all-band transceiver with high receive sensitivity and low noise floor. Using surface mount technology, its three military grade printed circuit boards are attached with BTB (back-to-back) connections, guaranteeing the X1M to provide reliable, excellent performance.

The X1M can be operated via computer using the Ham Radio Deluxe program with Icon IC-718 settings.

Operating Controls

PWR / VOL	Power Switch / Volume Control
PTT	Microphone Jack
V / M	VFO / Memory Mode Switch Short press cycles between VFO mode and Memory Mode Long press transfers current settings to memory channel storage
A / B	Switch between VFO "A" and VFO "B" with short press Long press operates "split frequency"
MD	Selects operating modes of LSB / USB / CW
TS	Changes tuning steps with short press Long press turns on receiver pre-amplifier
RIT	Receiver Incremental Tuning On / Off Long press of button enters system menu settings
BL / LK	Locks Keyboard with short press Long press of button turns backlight on/off
TUNING	Rotate knob to change frequency Press knob and rotate to select frequency step. Press again to accept and store.

Systems Menu

Enter Systems Menu	Press RIT button
Select Systems Option	Rotate Encoder knob
Enter a Systems Option	Press Encoder knob
	Select desired row with VM (move left) & RIT (move right)
	Select value within row with Encoder knob (value up/down)
Save a Systems change	Press BL/Lock button. System displays "SAVE CHANGES"
	Choose YES or NO. Display returns to normal operating.

Systems Menu Options

1 - RCLK Ratio	DDS frequency setting
2 - DDS Clock	DDS clock frequency setting
3 - USB/LSB BFO	USB/LSB IF offset setting
4 - CW BFO	CW mode IF offset setting
5 - IF Offset	IF offset setting
6 - KEY Mode	CW automatic keyer / button to select manual keyer
7 - A-Key Speed	Automatic keyer mode bitrate adjustment
8 - CW Delay	CW mode send delay adjustment
9 - CW Tone	CW sidetone pitch
10 - RstSetting	Restore the factory settings

Screen Icons

R / T	Receive mode / Transmit mode
USB	Current operating mode
PRE	Receive pre-amplifier is ON
SPL	Split-Frequency transmit mode is ON
RIT 0.000	RIT fine tuning is turned ON
CH00	Memory mode operating channel being used
14.270.000	VFO mode current operating frequency
V-B	VFO B in use

Changing Frequency

1 - Press V/M to select VFO mode.
2 - Turn tuning knob to underline digit to change. Press knob.
3 - Change digit by turning the tuning knob. Press knob to accept.
4 - Repeat with other digits as needed.
5 - Select USB, LSB or CW mode by pressing MD button.

Storing into Memory

1 - Set VFO frequency and transmit mode as described above.
2 - Press and hold the V/M button.
3 - Display will show the highest stored memory channel.
4 - Rotate tuning knob to show next empty channel number. Channel number flashes if empty.
5 - Long press of V/M button will store information in the selected channel.

Chongqing Xiegu Technology Co. Ltd - Manufacturer
Import Communications - North American Distributor

Here is information from a review of version 1
by VE3FAL

1.   Rig Overview and Rig Control Functions:

BL/LOCK Button (RED): When this button is momentarily pressed it will LOCK all buttons and main tuning control. If pressed again it will UNLOCK (You will see the KEY symbol on left hand side of display screen)

If same button is pressed for 2 seconds, this will disable the backlight of the display. Hold for 2 seconds again to turn backlight on.

BAND Button: When pressed for 2 seconds this will bring you too the **SYSTEM MENU** display-from here you have 2 options- **YES** or **NO.** By pressing the button directly underneath either option will make the choice. If YES is pushed you will see these default settings.

	Button	Default setting when radio received
1.	RCLK Ratio	x6* x1
2.	DDS Clock	032768131*
3.	LSB BFO	08988750*
4.	USB BFO	09000850*
5.	CW BFO	09001380*
6.	IF OFFSET	+08999830*
7.	KEY MODE	MANUL* AUTO
8.	KEY SPEED	A-KEY-SPEED 060* (adjustable)
9.	CW DELAY	1000* (adjustable from 0000-5000)

To make any changes to the menu values push main tuning knob in and if value can be changed you will see 2 arrows on either side of the setting, it then can be changed. Once changed quickly press main tuning button again to exit menu.

When all settings are adjusted-momentarily press and release RED BL/LOCK button- It will then ask if you want to **SAVE CHANGES**? **YES** or **NO**

Press the black button directly under the option you wish to choose. You will then be directed back to the VFO/MEMO setting when all is saved.

RIT BUTTON: When quickly pressed this will allow you to go into **RIT** mode on receive. It is the adjustable from the **MAIN TUNING** knob and the offset can be seen on the screen. To get out of **RIT**

mode press **RIT** button quickly one more time.

If **RIT** button is held for 2 seconds it will turn the **PREAMP** ON or OFF, when on you will see **PRE** in the display.

MODE BUTTON: When **MODE** button is quickly pressed it will allow you to change modes between **CW**, **LSB** and **USB**

VFO A/B BUTTON: This button when quickly pressed allows you to toggle between **VFO A** and **B**. From here separate bands and modes can be selected in either **VFO**.

When the **VFO A/B BUTTON** is pushed for 2 seconds it allows you to enter **SPLIT (SPL)** mode as displayed on the screen. This allows you to transmit and receive on 2 different frequencies. To **EXIT SPL** mode push in **VFO A/B BUTTON** for 2 seconds.

VFO/MEMO BUTTON: This button when quickly pressed will toggle you between **VFO** and **PRESET MEMORIES**. Memories are labeled from **00-99**. When in **VFO** mode you will see on the bottom left of the display **RV-A**. This means you are receiving in **VFO A**, when you transmit the **R** will turn into a **T**.

If you press the **VFO/MEMO** button again it will go to **MEMO** mode. You will then see **CH##** in the right hand corner of the display. In **VFO** mode choose the frequency and mode you wish to save. Then push **VFO/MEMO BUTTON**, choose **CH##** you want to save setting in, the **CH##** will flash if nothing in it. Turn **MAIN TUNING DIAL** to choose desired memory channel. Once channel is chosen push and hold **VFO/MEMO** button until **CH##** stops flashing and you hear a warble sound.

PWR/VOL BUTTON: This button **TURNS** your unit **ON** and **OFF** and also adjusts your volume level.

PTT: This is microphone jack

A/M KEY: This is for your straight key or iambic keyer. In the System menu settings you can set this for **MANUAL** or **AUTO** detection of **KEY** type.

DATA/AAT: This is for using **DIGITAL** modes using computers and various modems and soundcard devices.