

# G90

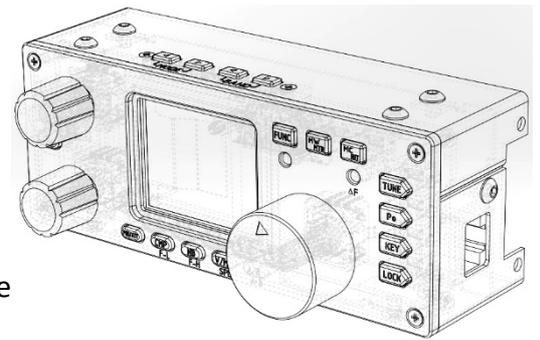


**G90** is a portable 20W HF amateur radio transceiver with an SDR architecture with built-in auto antenna tuner. The display unit and the radio can be separated. It is a new member of the Xiegu product family and the first model of the G series.

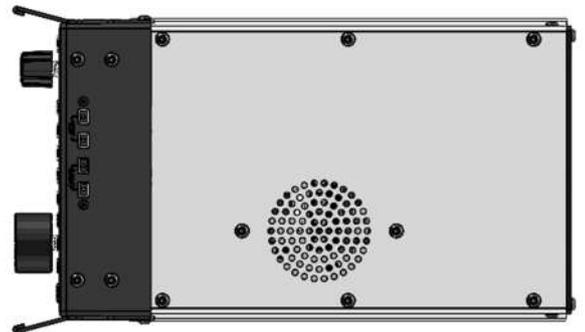
SDR structure, 24-bit data size @48kHz sampling rate, it has excellent transceiving performance and a highly configurable function experience;

The design of detachable display unit allows you to flexibly arrange the position of the radio;

Built-in high-performance auto antenna tuner to meet your need no longer a problem.



- High performance front end narrowband ESC preselector;
- Covers the frequency range of 0.5~30MHz, SSB/CW/AM three working modes;
- 1.8 inch high brightness color TFT LCD screen;
- ±24k bandwidth spectrum display, waterfall display;
- Software defined narrowband filter (CW mode: 300Hz);
- detachable display unit;
- Up to 20W of RF power;
- Built-in wide range automatic antenna tuner;
- Diversified interfaces, In particular, the baseband I/Q output allows it to interface with any external device that can handle baseband I/Q, including sound card-based or PC-based applications such as XDT1.



The G90 features a panel + top button construction and all operations are optimized for ease of use. You no longer need to set up various functions through the menu, you can control all directly

through the buttons and multi-function encoder. The screen display is rich in content, all the information is clear at a glance, and with the real-time spectrum display, various signal conditions are under control.

#### **Feathers**

Receive frequency range: 0.5MHz to 30MHz

Operating voltage range: 12 ~ 15V DC

Transmitting frequency range: all amateur bands in the range of 1.8 to 29.999 MHz

Standby operating current: 750mA @ Max

Working mode: SSB/CW/AM

Transmit working current: 8A @ Max

Operating temperature range: 0 ° C ~ 55 ° C

Frequency stability:  $\pm 2$ ppm (after 30 minutes of power on)

Machine size: 120\*45\*210 mm (without protrusions, head unit combination status)

Machine weight: about 1kg

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#### **Receiver parameters**

Receive sensitivity: better than 0.25uV @12dB Sinad (PRE: ON)

Machine dynamic range: 90dB

Adjacent channel suppression: 60dB

Audio output power: 0.5W@ 4 $\Omega$

Optional: SSB 2.4kHz / CW 300Hz

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#### **Transmitter parameters**

RF output power: 20W

Spurious suppression:  $\geq 50$ dB

Carrier suppression:  $\geq 50$ dB

Sideband suppression:  $\geq 50$ dB

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#### **Automatic antenna tuner parameters**

Initial tuning time:  $\leq 12$ s

Re-entry tuning time:  $\leq 2$ s

#### **Optional accessories**

XPA125B: 100W AP + ATU

XDT1: Data terminal



XPA125B