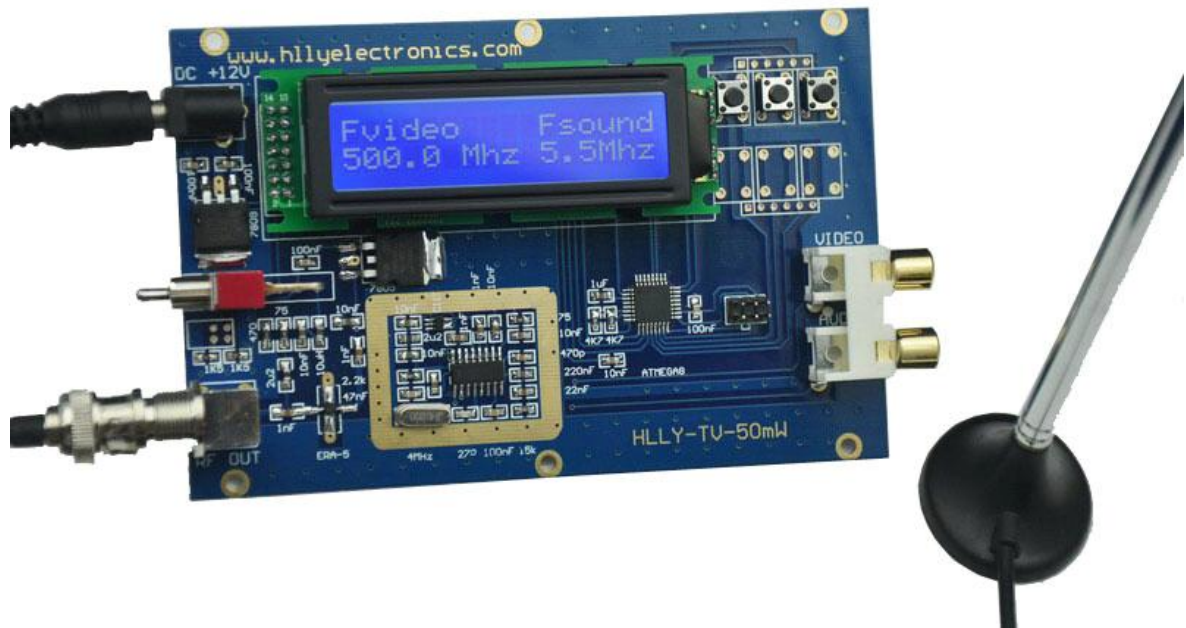


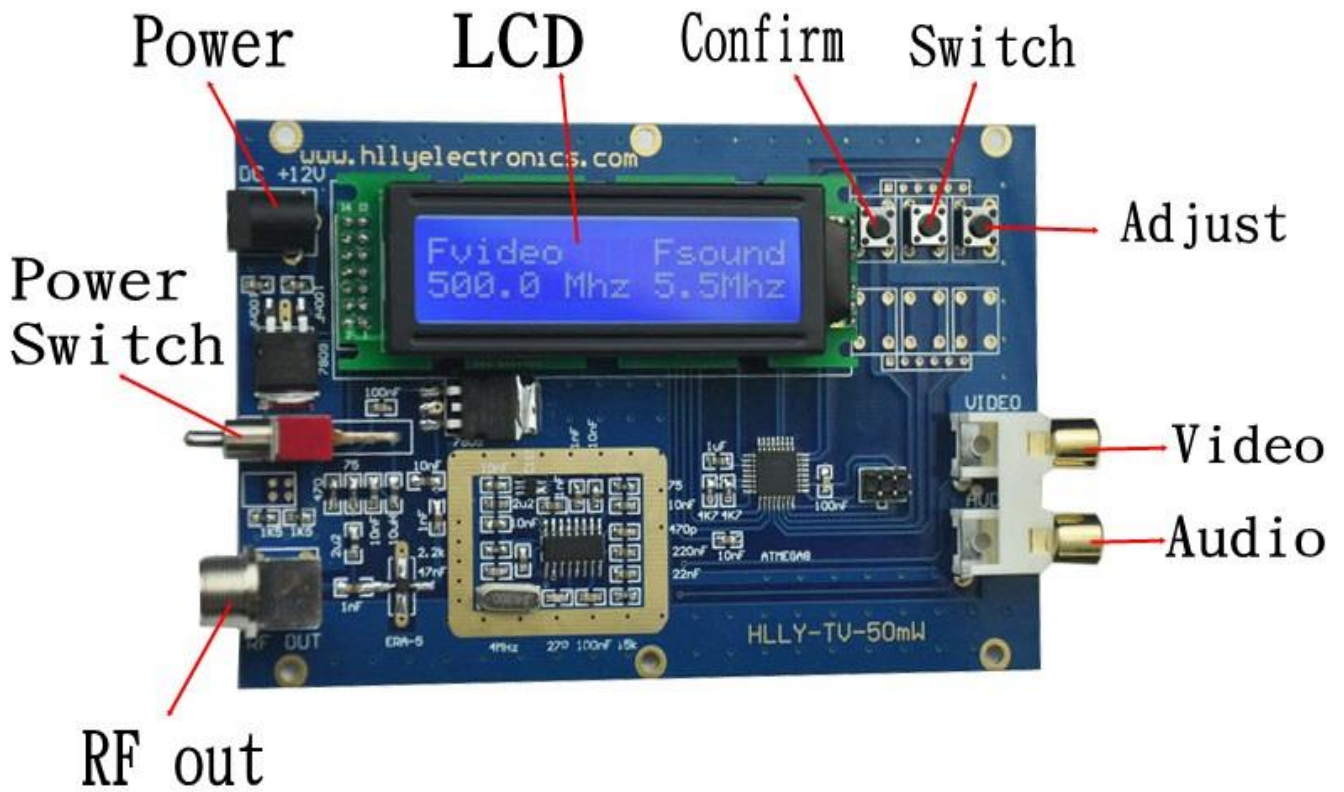
50mW TV Transmitter

Instruction manual

Mode: HLLY TV-50mW v1.0



www.hllyelectronics.com



TV transmitter PCB diagram

LCD: Displayer for TV transmitter

RF Out: Connect to Antenna

Video: Video input

Audio: Mono Audio input

Power: Power input

Confirm: Confirm Key (see operation detail)

Switch: Switching Key(see operation detail)

Adjust: Adjusting Key(see operation detail)

1) Operation Manual (Link the antenna to the RF output of TV Transmitter, connect the power adaptor, then Power on the TV transmitter, setting the frequency of transmitter via the 3 keys! Push the Center Key and one of the number in the LCD will display, You can use the right key to adjust the number, Push the Center Key and will switch to the other number, also use the right key to adjust the number... do the same operation until you finished your setting, push the left key to confirm your setting, system will remember your setting!!)

2) Features:

Integrated on-chip programmable UHF oscillator

- **No external varicaps diodes/inductor or tuned components**
- **Extremely low external component count**
- **Channel 21–69 UHF operation**
- **VHF range possible by internal dividers (30–450 MHz)**
- **Boosted TVOUT level (82 dB \dot{V} typical)**
- **High-speed read and write I2C bus compatible (800 kHz)**
- **I2C address selectable by pin (four choices) using external resistor (available only in QFN20 package)**
- **I2C bus 5- and 3.3-V compatible**
- **Fixed video modulation depth (93% typical in system L and 82% typical in the other standards)**
- **Peak white clip disabled by bus**
- **Programmable picture/sound carrier ratio (12 and 16 dB)**
- **Integrated on-chip programmable sound subcarrier oscillator (4.5, 5.5, 6.0 and 6.5 MHz)—no external varicaps**
- **Programmable sound reference frequency (31.25 and 62.5 kHz)**
- **Direct RF sound modulator input (FM and AM modulator bypassed) for NICAM or stereo sound applications (available only in QFN20 package)**
- **On-chip video test pattern generator with sound test signal (1 kHz)**
- **Low-power programmable modulator standby mode**
- **Transient output inhibit during PLL lock-up at power-on**
- **Logical output port controlled by bus**
- **ESD protection, minimum 4 KV**

Attention:

- I Must connect the antenna before power on!**
- I Make sure the antenna operating frequency and operating frequency to match the transmitter, Otherwise it may affect the normal operation of the transmitter because the standing wave is too large!**
- I Make sure the power supply is strong enough for the Fm transmitter!**

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