



F-SELECTRONICSUSA
FAIL-SAFE PRODUCTS, FAIL-SAFE SUPPORT

TVX-02S 2W TV TRANSMITTER



INCLUDES:
2W TV TRANSMITTER
POWER SUPPLY
ANTENNA

Instructions:



SHIFT KEY
SET KEY
CONFIRM KEY
LCD SCREEN



AUDIO INPUT
VIDEO INPUT
POWER INPUT
ANTENNA

1. Connect Antenna, Audio, and Video sources to back of unit
****Do not power on without an antenna attached or it could permanently damage your transmitter****
2. Attach power cable to the back of unit
3. Power on the transmitter
4. Use the Shift, Set, and Confirm keys to set the frequency
5. Push the Shift Key and the first number on the LCD will start blinking
6. Use the Set Key to adjust from 0 – 9
7. Push the Shift Key again to move to the next number
8. Continue in this way until your settings are correct
9. When finished press the Confirm Key to save your settings

Troubleshooting:

1. **Distortion/Static:** Check Audio or Video cable depending on where you are getting the static or distortion.
2. **Transmit range is weak:** The transmit range will vary as per your environment, antenna type, and frequency setting. You may need to upgrade the antenna. Placing the antenna on the highest altitude inside or outside of a building with the least amount of obstacles will give you the optimum range. Please note that the average broadcast range with the stock antenna is at max 0.5 miles (800 meters) . Receiver units with weaker strength antennas may not get even half of this range. For best results, check out our other antennas, or contact us.
3. **Constant hum on radio/when broadcasting:** Make sure your audio source is set to mono.
4. **Transmitter will not power on:** Do not use a different power supplies with your transmitter. You can try the power supply with another device that accepts 12 V of power, or test it to see if it is still functional. If you find that the power supply is the issue, or if you do not have the means to test it, please contact us and we can make arrangements.
5. **Transmitter powers on, but not transmitting:** Check antenna and cable for damage.

Features:

1. Integrated on-board programmable UHF oscillator
2. No external varicaps, diodes, inductors, or other tuned components
3. Channel 21 to 69 UHF operation
4. VHF range possible by internal dividers (30-450 MHz)
5. Boosted TV output level (82dB)
6. Fixed video modulation depth
7. Programmable picture and sound carrier ratio (12 and 16 dB)
8. Direct RF sound modulator input
9. Programmable sound reference frequency (31.25 and 62.5 kHz)
10. Video test pattern generator, and sound test signal
11. ESD protection minimum 4 KV

A BRIEF INTRODUCTION TO THE RULES OF THE FCC AND YOUR FM TRANSMITTER

It is the policy of FS Electronics, that knowing and observing the lawful use of all transmitters is a first responsibility of our end users. We do not endorse any unlawful use of any of our transmitters. This is only a guide to offer as much common sense help about normal and lawful use. Further, it is the policy of FS Electronics to cooperate with all applicable federal regulations in the design and marketing of our electronic devices. In all instances, compliance with FCC rules in the operation of what the FCC terms an "intentional radiator" is always the responsibility of the user of such an "intentional radiator".

FS Electronics only offers this information to make the user aware of the full impact a transmitter can have. In no way should this brief discussion be construed as a definition of the FCC rules, it is the users obligation to obtain a copy of the rules and operate legally according to them. *FS Electronics makes no representation as to the following discussion being legally correct - it is simply offered as an introduction to the responsibilities that a user must realize.* To order your copy of the FCC rules part 15, call the US Government, Superintendent of Documents, at 202-512-1800, or fax at 202-512-2250. To order the correct document, ask for "CFR Title 17: Parts 1 to 199." The cost is \$24.00. Master Card and Visa are accepted.

The present edition of Part 15 of the FCC rules provides detailed guidance on ALL aspects of using a low-power transmitter. The main points to consider are; to remain within the field strength limitations, that you may not cause any interference whatsoever to licensed broadcast services, and that you must be willing to put up with any interference that you may experience. Remember, the FCC doesn't need to be bothered by policing a privilege given to unlicensed operators. If the rules are flagrantly violated, they might just revoke the privilege altogether!

Lawful use suggestions:

- Follow instructions.
- Use the stock antenna supplied within the case.
- Do not modify your transmitter in any way.
- Check your intended operating frequency very carefully, to ensure you will not cause interference to reception of licensed broadcasting.
- If you receive ANY complaint about your transmissions interfering with broadcast reception, stop or change your operation IMMEDIATELY.
- If you are contacted by the FCC regarding use of this device, cooperate fully and promptly.
- Do your own homework and research to understand and comply with present and future FCC rulings concerning devices of this kind. Do not rely only upon this short discussion.
- Do not use made-up "station call signs" to identify your transmissions. Only the FCC has the authority to issue such call signs. Use some other way to identify your transmitting activity, such as "This is Stereo 90.5, Seabreeze School Student Music Radio," and so forth.
- Identify the location and purpose of your transmissions from time to time. This is common courtesy toward other persons who may hear your signal. The FCC is toughest about clandestine transmission which cost time and money to track down.
- Do not assume that the mere fact that you purchased this transmitter gives you any specific right to use it for any purpose beyond generating a low-level RF signal which is barely detectable beyond the perimeter of your personal dwelling space.

Finally, the FCC Rules call for the posting of printed notices on devices intended for non-licensed operation under Part 15 Rules. You will find such notices written up for the front or back of the instruction manual for nearly any computer or video accessory that you have seen in recent months. A thorough study of Part 15 of the FCC Rules, which is completely beyond the purpose of this brief discussion, will show you many legal uses of radio transmitting devices which do not require licensing, either amateur or commercial. To provide more personal and club radio learning opportunities, and to cut down on administrative costs, today's FCC permits far more non-licensed activity than at any time in previous history. On the other hand, today's FCC enforcement actions get bigger fines and real prison terms for scofflaws! From CB radio to easy entry-level Amateur Radio with long-term licensing, to numerous unlicensed Part 15 operations, the FCC is beginning to look out for the interest and good plans and intentions of private citizens and school-community groups as never before in radio communications history.

Consult the Part 15 Rules for the exact wording of such notices. Following is a text for such a notice which responds to FCC rule making intentions:

NOTICE:

The individual users of this device assume responsibility for lawful uses conforming to FCC Part 15 Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

For questions and troubleshooting contact us at sales@failsafetransmitter.com or 260-255-6622.

F-S Electronics



F-S ELECTRONICS USA
FAIL-SAFE PRODUCTS, FAIL-SAFE SUPPORT
EMAIL : failsafeco@gmail.com
WEBSITE : www.failsafetransmitter.com
PHONE : 260-255-6622

