EQUIPMENT

The Field-Coder II (FCII-7) with external power amplifier (FCII-MAX) and power supply (FCII-AC) is a non-broadcast mobile transmitter for use in the frequency range of 1999 MHz to 2500 MHz.

This product supports the following Emission Designators:

FCC ID	Modulation	Emission Designators		
CNVFC-FCII-7	Digital	6M00W7D	7M00W7D	8M00W7D

Operation under FCC rule parts: **74, 90**

APPLICATION

Field-Coder II is designed for use in ENG News Vehicles (rule part 74) and Law Enforcement Command Posts (rule part 90). The FCII-7 supports transmission of video, audio, and data.

The FCII operates in digital (COFDM) mode. It features a DVB-T compliant (COFDM) modulator MPEG2 video encoder. The system is designed to support either 6, or 7, or 8 MHz occupied bandwidth. The product includes the Field-Coder II unit (FCII-7) as well as a power amplifier unit (FCII-MAX) with the maximum output power of 4W and a power supply unit (FCII-AC).

TECHNICAL DESCRIPTION

Technical description is detailed in the User's Manual.

OPERATION

- *Field Coder Set-up*

These instructions are for setting up FCII systems that have been prepared and configured for quick field set-up. If the FCII system is not being used with a tripod, be sure to set the FCII on a stable surface before installing the antenna, connecting power, or operating.
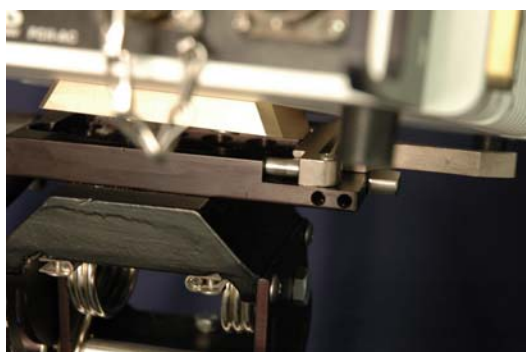
For Tripod Use

Set the tripod up so that it is stable.

Mounting on the Tripod

Seat the FCII Tripod Mounting Plate into the Tripod Mount. Fully extend the lever and angle the unit to maneuver the mounting plate in on one side, then the other. When it is seated, the mounting plate will be just barely visible.

Figure 1   **Figure 1 Not Seated**

Figure 2   **Figure 2 FCII Seated in Tripod Mount**

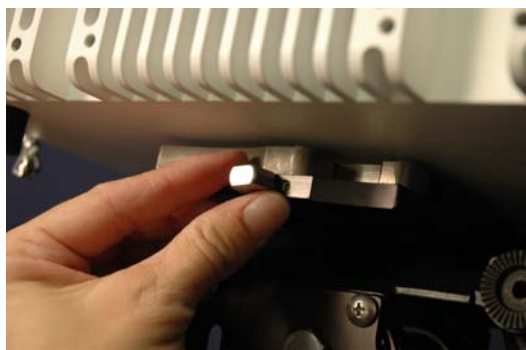**Figure 3**   **Figure 3 Close the Clamp**

Figure 4   **Figure 4 Fold the lever flush**

Lock the Clamp.

Figure 5   Not Locked

Figure 6   Locked

Attaching the Horn Antenna

Align the antenna bracket on the horn antenna perpendicular to the bracket mount on the back of the FCII or FCII-MAX unit.

Figure 7   Align Antenna Mount with Bracket

Figure 8   Insert Antenna Mount into Bracket

Figure 9   Rotate Antenna to Lock

Figure 10   Antenna Locked to Mount

Cable Connections

If using the FCII-MAX, connect the RF cable from the FCII to the RF In connection on the FCII-MAX after installing the Horn Antenna.

Figure 11 Connect the RF Cable to the FCII Turn the knurled sleeve to tighten	**Figure 12** Connect the RF Cable to the RF In Connector on the FCII-MAX Turn the knurled sleeve to tighten

Connect the video input to the VIDEO IN connector on the FCII front panel.
Connect the audio input to the AUDIO IN connector on the FCII front panel.
Supply the FCII with power either 28VDC direct to the FCII via the terminal under the ON/OFF switch, or AC (120 or 240) through the FCII-AC via the AC-INPUT connector on the front panel.

• *Setting Operation*

Verify all cable connections are secure.
Turn video source on. FCII will not transmit without a valid video source.
Turn on the FCII-AC power (if applicable).
Turn on the FCII.

Note:

The FCII stores the operating settings upon shut down. When it is restarted, the FCII starts in the same state it was shut down in. If the FCII was shut down during transmission, it will start in transmission, with the same settings it had when it was last operated.

Manually Configure FCII for Broadcast

Select Frequency

Press the any of the menu keys to bring up the frequency menu.

```
2454.25 MHz
RF Input Freq
2454.25 MHz
```

Press OK to enter the menu, use the ⬆ and ⬇ buttons to change the value. The ➡ and ⬅ buttons move the cursor. Press OK when finished.

Select Transmission Power

Use the ⬆ and ⬇ buttons to navigate to the RF OUTPUT POWER menu.

```
2454.25 MHz
RF OUTPUT POWER
off  low  mid  high  max
```

Use the ➡ and ⬅ buttons to select the output power and start transmission. Press OK.

Select Robustness

Optimize the transmission by changing the robustness setting. Use the ⬆ and ⬇ buttons to navigate to the ROBUSTNESS menu

```
2454.25 MHz
ROBUSTNESS
low  mid  high  expert
```

Use the ➡ and ⬅ buttons to select the desired robustness setting. Press OK.

Using a Preset Configuration

To use a preset configuration, use the ⬆ and ⬇ buttons to navigate to the RECALL CONFIGURATION menu.

```
2454.25 MHz
RECALL CONFIGURATION
1 2 3 4 5 6 7 8 9 default
```

Use the ➡ and ⬅ buttons to select the desired numbered configuration. Press OK.

Select Transmission Power

Use the ⬆ and ⬇ buttons to navigate to the RF OUTPUT POWER menu.

2454.25 MHz
RF OUTPUT POWER
off low mid high max

Use the ➔ and ⬅ buttons to select the output power and start transmission. Press OK.

- ### *Shut Down*

Stopping Transmission

Use the ⬆ and ⬇ buttons to navigate to the RF OUTPUT POWER menu.

2454.25 MHz
RF OUTPUT POWER
off low mid high max

Use the ➔ and ⬅ buttons to select off to stop transmission. Press OK.

Power Down the FCII

Flip the FCII ON/OFF switch to the OFF position.
Flip the FCII-AC to POWER switch to the OFF position.(if applicable).
Disconnect the power chord from the FCII-AC (if no FCII-AC in use, then disconnect power from the FCII.)
Disconnect the RF cable from the FCII to the FCII-MAX (if applicable).
Remove the antenna. Twist to align the flanges with the opening. Pull straight out.
Remove the FCII components from the tripod. Unlock the clamp lever. Release the clamp and lift the FCII off the tripod.