



October 31, 2006

**FCC ID RXD2400L1 Section 97.312 (24-35 MHz) Compliance,
Dishtronix Model DX2400L1 RF Deck.**

Band switching, transceive operation and final power amplifier bias of the DX2400L1 RF deck is all controlled by microprocessor. Selection of the band is made by pressing the front panel BAND key and scrolling through the bands, or from the data present from the transceiver on the back panel BAND DATA jack, or by sampling the exciter input frequency. The software does not allow the activation of the 24-35 MHz low pass filter on US models. Further, the bias to the power amplifier modules is controlled by the microprocessor via the PTT jack on the rear panel. The PTT jack also sequences the transmit / receive relays through the microprocessor. Additionally the incoming exciter frequency is measured by the microprocessor. If the incoming frequency falls in the prohibited band of operation, or if the band data from the transceiver falls in the prohibited band of operation, the microprocessor will ignore the PTT signal and refuse to sequence the T/R relay and refuse to engage the bias circuit. If the user were to somehow bypass the T/R relays, the processor still would not activate the 24-35 MHz filter. Hence the amplifier would operate into the wrong filter, thereby causing a very high and damaging SWR which would activate the SWR protection shutdown circuit, or destroy the final transistors resulting in the complete failure of the unit if the user somehow bypasses the SWR protection feature..

However, Section 97.315(3ii) allows a licensed amateur operator to modify one unit per year for operation at his station. Towards this end, Dishtronix will supply at additional cost a modification kit that can be run one time to allow the microprocessor to operate correctly in the 10-12 meter band. The modification requires the user to purchase from Dishtronix and install the computer programming interface kit and software, which Dishtronix will only supply to valid amateur radio license holders, as evidenced by proof of photocopy, fax or other acceptable electronic representation of the license.

As a footnote, it is expected that the cost of this unit alone at over \$8,000.00 USD, in addition to the aforementioned technical features will keep this unit out of the CB bands, which we know is the spirit behind the FCC rules prohibiting operation in the 24-35 MHz band. It is Dishtronix, Inc. intention to comply both with the letter and spirit of this Section's requirements as the president and majority owner of the company is an active amateur radio licensee.