

Camlite Electronics, Inc
FC2000TX
Short Range Audio Visual Transmitter
Installation and Operation Manual

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1 Introduction

The FC2000TX wireless audio/visual transmitter is a low power FM transmitter that operates in the 902 MHz to 928 MHz frequency band. The transmitter is designed as a component for OEM applications and is not intended for direct purchase by the end user. This manual describes the installation and operation of the device.

2 Installation

2.1 Housing Requirements

The transmitter is small enough to be employed in hand held applications however it must be secured to protect against crushing or impact damage. The transmitter should be mounted so that the housing can be used as a heat sink or the housing must provide ventilation. The housing must allow the antenna to extend from the transmitter without bending and so that the antenna is not obstructed by metallic surfaces.

2.2 Electrical Connections

Electrical signals are connected to the transmitter through four color coded wires that pass through an EMI limiting ceramic toroid. The black wire is the ground reference for all signals. The red wire connects to a 12 VDC power source that can provide at least 250 mA peak current and 80 mA continuous current. The white wire connects to a high impedance audio signal source such as a piezo microphone. The yellow wire connects to a 75 ohm NTSC video source such as a keyhole video camera. The video bandwidth is 4 MHz.

The unit must be operated with the factory installed antenna.

3 Operation

The transmitter provides no controls to the end user. It operates at a fixed frequency that is set at the factory. It begins transmitting as soon as 12 VDC is applied to the unit. The red wire may be connected to the 12 VDC power source through a switch that can be used to turn the unit on or off at will.

Transmitter performance can be effected by metal surfaces near the antenna and by large physical structures. The transmitter should not be operated near medical equipment. The operator may assume that any restrictions to the use of cell phones also applies to the use of this transmitter.

The transmitter complies with Part 15 of the FCC rules. Operation is subject to the restriction that the device does not cause harmful interference.