

Theory of operation/ Technical Description

The device is a lightweight 2.4GHz Audio/Video wireless RF transmitter, using FM signal modulation. It is hard wired with a cable and connector for attaching a lightweight ccd camera.

Input voltage: The device is hard wired with a small JST connector for connection to external batteries providing 6volts to 14volts (typically two cell or three cell lipo batteries.).

Contained within the device is a linear regulator which outputs 5 volts to the transmitter module and 5 volts to the camera. The linear regulator maintains the 5v output with input voltages of up to 35 volts.

Channel selection: A dip switch enables user selection of the four available channels 2414 MHz, 2432 MHz, 2450 MHz, 2468 MHz.

The antenna is a simple straight length of wire soldered directly to the pcb.