

Pro-711 & Pro-711C Technical Description

I. Pro-711

The Pro-711 2.4GHZ wireless micro transmitter can convert the video & audio signals to RF signal in 2.4GHz ISM band by FM Modulation scheme and send the video and audio signals to remote side.

To avoid RF interference, there is 4 RF channels can be selected; CH1 : 2414MHZ, CH2 : 2432MHZ, CH3 : 2450MHZ, CH4 : 2468MHZ.

The micro transmitter consists of (1) Voltage Regulators (2) Micro Controller & EEPROM (3) Channel Setting & LED Indicator (4) 2.4GHZ VCO & Synthesizer (5) 6.5MHZ VCO (7) 2.4GHZ Low Pass Filter

- (1) Voltage Regulators : converts the 9V DC to 3.3V DC and supplies the 3.3V DC to entire circuit.
- (2) Micro Controller & EEPROM : the micro controller controls the synthesizer channel, saves the channel code and channel status in EEPROM and sends the channel status to LED Indicator.
- (3) Channel Setting & LED Indicator : to set the channel by tact switch and show the Channel status by red LED.
- (4) 2.4GHZ VCO and Synthesizer : the 2.4GHZ VCO generates the RF carrier in the 2.4GHZ ISM band and do the FM modulation with Video signal and Audio FM modulated subcarrier. The Synthesizer channelizes the 2.4GHZ ISM band into 4 channels (CH1, CH2, CH3 & CH4), and controlled by MicroController & Channel Setting.
- (5) 6.5MHZ VCO : the 6.5MHZ VCO generates the 6.5MHZ audio subcarrier and do the FM modulation with Audio signal.
- (6) 2.4GHZ Low Pass Filter : to reject the harmonics of the 2.4GHZ VCO.

II. Pro-711C

The Pro-711C 2.4GHZ wireless micro camera is combined with one camera module and one Pro-711 2.4GHZ wireless micro transmitter. The Pro-711C uses the camera module to convert the image to video signal and convert the voice to audio signal by microphone on the camera module, then the video and audio signals are sent to the Pro-711 2.4GHZ wireless micro transmitter, so the micro transmitter does the video & audio FM modulation and transmits the modulated signals in 2.4GHz ISM band .