

The EUT is a wireless camera with operational frequency: 2414MHz, 2432MHz, 2450MHz, and 2468MHz.

The video signal is generated by IXL5150, through the pin24 of which AV signal is transferred to the pin4 of CON2, then to the RF transmitting control circuit, or transferred to LCD display according to the middle pin of the Mini-USB.

RF Transmitting control circuit:

U1 (VT6801) is 2.4GHz FM/FSK transmitter IC. The RF circuit is composed of U1, Y1, C22, C23, 8MHz oscillating circuit, F1 (LF2012 filter) and other peripheral components. The AV signal is input to pin 2 of U1 through R13, R14, and C11. The 1 kHz oscillating circuit is composed of QA1, QA2 and RA2, which is regard as audio signal. This audio is input to the pin 5 of U1 through, R9, R17, C8, C31, R8 and C16.

R36 is connected between GND and pin 25 of U1. R35 is connected between GND and pin 22 of U1. R34 is connected between GND and pin 23 of U1. R33 is connected between GND and pin 24 of U1. A channel selector switch SW1 used to control these resistors in order to change the transmitting frequency.

The output signal generated by pin28 and 29 of U1 is transferred to F1 through C2, L3, L2, L1 and C3. The RF output signal is emitted by the antenna through the antenna network.

The wireless camera is powered by 3.7V Li battery.

The ceramic antenna used with antenna gain 2.0 dBi

Modulation Type: FM