

XC35A – Professional Pan/Tilt/Zoom wireless color camera Circuit Description

XC35A is a 900MHz camera which converts video and audio to 900MHz RF signal. The modulation is FM. Here below are the list of major components and functions.

- 900MHz Transmitter module: a single chip which include 900MHz band FM modulator for video & audio signals and with reference crystal 8MHz. The fundamental frequency is 921MHz, single channel, channel bandwidth is 18MHz and modulation is FM.
- 900MHz baseband : a single MCU which used to control the motor and decode the RF signal. It consists reference crystal 4MHz.
- Color camera module: a single chip 1/4 inch CCD image sensor which provide a NTSC composite video output and with reference crystal 28.636MHz
- 310MHz RF receiver : 310MHz super-regeneration receiver which received RF signal from user remote control and send to the main MCU for function control.
- Antenna – Dipole antenna ~ 81mm.
 - Wire antenna ~ 242mm.