

Theory of Operation

The 9V/1.5A adaptor powers the whole circuit. The 3.3V voltage is regulated by LM1117 voltage regulator. The 5V voltage is regulated by LM7805 voltage regulator. The 9V voltage passes through the Power Filter and supports the Step Motor Driver.

The Camera gathers the A/V signal and transport it to the 2.4GHz TX module. The A/V signal will be modulated by the module and transmitted by the 2.4GHz Un-direction antenna.

The IA4320 receives the remote control signal from the remote antenna. Then it communicates with the Microcontrol STC89LE51RC. The Microcontrol gives orders to the Step Motor Driver to make the Camera rotate.