

ABSTRACT

CCTV transmitter is a transmitter device for wireless CCTV. Transmitter is intended so that we may be able to design and develop devices for wireless transmitter CCTV is more simple and frugal certainly in terms of quality and price. Where this device can be implemented in various places that are difficult in taking pictures, so it does not need a cable as transmission media.

Transmitter device is working at a frequency of 223 MHz to 230 MHz is allocated on VHF channels on channel 12 with PAL modulation system. This circuit uses a crystal oscillator at 25MHz and the mixer as the modulator. It emerges frequency harmonics (multiplication) of which the desired frequency of 225Mhz.

Power output from this device around – 36,2 dBm and can work at a distance of approximately 20 meters depending on the transmission medium used. This device is similar to a TV transmitter in general, and can be tuned by Indonesian Television device.

Keywords: VHF, transmitter, CCTV, PAL