

IP306 Operational Description

The IP306 is a Network camera provides the ability to view the cameras monitored through PC or mobile phone as a live video stream, it supports the telecommunications standard of 3GPP streaming format. All 3G enabled mobile devices and most 2G phones that support the streaming standard of 3GPP are compatible.

The U3 on OTIP306OV77251VC board is a CMOS image sensor, it captures the image data and the data is send to U on OTIPCAMCORE1VD board in ITU656 format.

The U4 on OTIPCAMCORE1VD board is an ARM MCU including a MPEG4 CODEC, it implements all the control and TCP/IP protocol in the same time it will encode the image data come from U4.

While the encoding is complete, the encoding data will be sent out in two ways.

While the RJ45 is plugged, IP306 will send the compress image data by the CAT5 wire.

While the RJ45 is unplugging, IP306 will send the compress image data by the WLAN Module using Wireless way.

The U5 on OTIPCAMCORE1VD board and its periphery is use to Ethernet PHY, the U3 include a MAC, so U3 sent compress image data to Ethernet by U5.

The camera allows live the MPEG-4 and Motion JPEG streams simultaneously. The camera features MPEG4 compression which compresses the video to make transmission faster and more efficient. The MPEG4 and MJPEG image can be transmitted at 30 frames per second. Because of its high-compression ratios, users can monitor high-quality moving images with low delay even at low bandwidths. The image size can be selected according to the network environment and application requirements. Image size can be selected from three modes: 640 x 480, 320 x 240, and 160 x 120.