# VISUAL

Intertec
Components ™

ITM-US5181
USB Camera Module
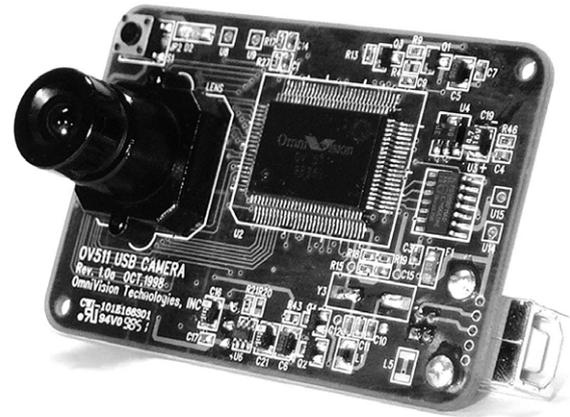
General Description

The ITM-US5181 is an USB Camera module of SVGA resolution. It utilizes an advanced CMOS imager sensor as well as a sophisticate USB controller chip to provide excellent picture quality. It designs for maximum throughput of video image data enables host systems to acquire larger amounts of video information in a more real-time manner. An on-chip proprietary high-performance compression engine capable of a 8:1 compression ratio ensures fast image transfers from the image sensor to the PC. It supports 8 isochronous interface alternates of up to 7.5 Mbps USB transfer rate. A plug and play software driver is provider for Windows 98/Me application.

Features

Still picture of 800 × 600 pixel uncompressed

Video of VGA resolution (640 × 480), 10–15 fps

30 FPS at CIF format

USB full speed signaling bit rate

USB compliance current consumption

No external power supply

Single board solution

Auto gain, white balance control

Powerful compression software

Lens f = 6 mm

Twain interface

Hardware snap shot

System requirements for PC

OS	Windows 98/Me
CPU	Pentium 166 or higher with mmx
Memory	min 16 MB RAM
Interface	USB connector

Specification

Module

Lens	f 6.0 mm, F 1.6
Focus	manual adjust
Board size	63 × 43 mm
Connector	USB cable
Power Requirement	DC 5V via USB cable
Power Consumption	0.6 W

Imager

Array Elements	800 × 600
Pixel Size	6.2 × 6.2 µm
Image Area	4.96 × 3.72 mm
Min illumination	< 5 lux @ f 1.2 (3000 K)
S/N Ratio	> 48 dB

Mechanical Dimension in mm
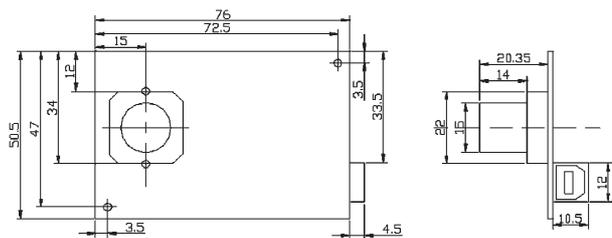
Other Module in this Series

Model	Sensor	Lens
ITM-US5172	VGA (640 × 480)	f 6.0/F 1.6
ITM-US5162	CIF (352 × 288)	f 4.3/F 3.5
ITM-US5163	CIF (352 × 288)	f 4.3/F 3.5

Application Example

Video Conference

Video Email

PC Multimedia