UC5181
USB Camera Module
SVGA Resolution

General Description

The UC5181 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 7.5Mbps USB transfer rate. A plug and play software driver is provider for Windows 98/Me application.

Features :

- Still picture of 800x600 pixel uncompressed
- Video of VGA resolution (640 x480), 10-15fps

- 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 = 6mm
- Twain interface
- Hardware snap shot

System requirement for PC

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

Application Example

Still Picture
Video Conference
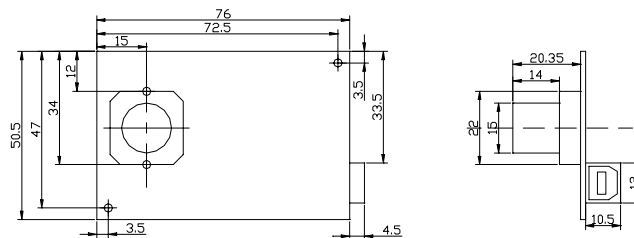Video Phone
Video Email
PC Multimedia

Other Module in this Series

Model	Sensor	Lens
UC5172	VGA (640x480)	f6.0/F1.6

Specification

Module	
Lens	f 6.0mm, F 1.6
Focus	Manual adjust
Board Size	63 x 43 mm
Connector	USB cable
Power Requirement	DC 5V via USB cable
Power Consumption	0.6W
Imager	
Array Elements	800x600
Pixel Size	6.2 x 6.2 um
Image Area	4.96 x 3.72mm
Min Illumination	<5 lux @f1.2(3000K)
S/N Ratio	>48 dB
FPN	<0.03% Vpp
Dark Current	<0.2nA/cm^2
Dynamic Range	>72dB

Mechanical Dimension

All dimensions in millimeters