

HTC-2036CB

Vision Camera
 WVGA pixel image sensor
 ISP control
 C/CS mount type lens
 IR cut-off filter
 Intel OpenCV™ Library interface available



Feature

- 별도의 드라이버가 필요 없는 UVC 카메라
- 기존의 다른 비전카메라에 비해 소형화
- Windows 7 / Vista 지원



Application

Academic	R&D for image improvement, recognition and compression
Industrial	Machine vision, Bar code recognition, Marking test etc.

Contents

- Main board, Mini USB Cable, Trig/Strobe 원형 cable(4pin), Program CD_ SDK program source code & Library (VC++)

Specification per Resolution

	360k (WVGA) / Bayer
Image device	1/3 inch CMOS
Effective pixel	750 (H) x 480 (V)
Pixel size	6.00 x 6.00 um
Frame rate	Max. 60fps

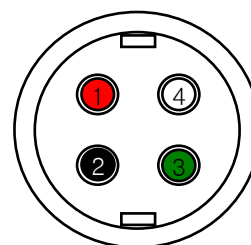
Common specification

PC Interface	USB 2.0 (480Mbps)
Power	USB 5V
Sensor video data format	8Bit Bayer
Sensor command interface	표준 I2C Protocol
Compression	압축 안 함
Image Processing	Host 프로그램 구현 또는 센서 ISP Control 가능
Port	Trigger / Strobe port
Lens	C mount lens
Filter	IR cut off / Infra-red 650[nm]
Multi-Camera connect	Multiple cameras connection with 1 PC available
CPU	Pentium4 2.0 GHz 이상 (2.8GHz 이상 추천)
RAM	512MB 이상 (1GB 이상 권장)
USB 2.0 Host Controller	Intel Controller chip 권장
Operating System	Windows 2000 SP4 이상 Windows XP SP2 이상 Windows Vista / Windows 7
Dimension	30(w) X 30(h) X 38(d) mm

Camera Interface



Trigger / Strobe Connector Port



Pin	Signal Name
1	Trigger +
2	Trigger -
3	Strobe +
4	Strobe -

* Cable Color

1 : Red 2 : Black
 3 : Green 4 : White

	Product Name	Specification
	HTC-3500CB	<ul style="list-style-type: none"> • Pixel : 5M (QXGA) / Bayer (Color & B/W), 1/2.5 inch CMOS Sensor • Active pixels : 2592 (H) x 1944 (V) • Pixel size : 2.2 x 2.2 um • Frame rate : Max. 14fps@QXGA / 115fps@VGA • PC Interface : USB 3.0 • Function : H/W Trigger & S/W Trigger Support • Operating System : WindowsXP, Vista / Windows7
	HTC-3500R	<ul style="list-style-type: none"> • Pixel : 5M (QXGA) / Bayer (Color & B/W), 1/2.5 inch CMOS Sensor • Active pixels : 2592 (H) x 1944 (V) • Pixel size : 2.2 x 2.2 um • Frame rate : Max. 14fps@QXGA / 115fps@VGA • PC Interface : USB 3.0 • Operating System : WindowsXP, Vista / Windows7
	HTC-2300CB	<ul style="list-style-type: none"> • Pixel : 3M (WXGA) / Bayer 1/2 inch CMOS Sensor • Active pixels : 2048 (H) x 1536 (V) • Pixel size : 3.2 x 3.2 um • Frame rate : Max. 8fps@QXGA / 20fps@SXGA • Function : H/W Trigger & S/W Trigger Support
	HTC-2036CB	<ul style="list-style-type: none"> • Pixel : 360k (WVGA) / Bayer (Color & B/W), 1/3 inch CMOS Sensor • Active pixels : 750 (H) x 480 (V) • Pixel size : 6.00 x 6.00 um • Frame rate : Max. 60fps@WVGA • Function : H/W Trigger & S/W Trigger Support • Operating System : WindowsXP, Vista / Windows 7
	HTC-2300R	<ul style="list-style-type: none"> • Pixel : 3M (QXGA) / Bayer 1/2 inch CMOS Sensor • Active pixels : 2048 (H) x 1536 (V) • Pixel size : 3.2 x 3.2 um • Frame rate : Max. 6.6fps@QXGA / 22fps@XGA • Function : H/W Trigger & S/W Trigger Support • Operating System : WindowsXP, Vista / Windows 7
	HTC-2030R	<ul style="list-style-type: none"> • Pixel : 300k (VGA) / Bayer 1/4.5 inch CMOS Sensor • Active pixels : 640 (H) x 480 (V) • Pixel size : 5.04 x 5.04 um • Frame rate : Max. 30fps@VGA • Operating System : WindowsXP, Vista / Windows 7
	Motor Driver / Controller (HTM-1DM-232 / HTM-1200)	<ul style="list-style-type: none"> • HTM-1DM-232 <ul style="list-style-type: none"> - 1PH Motor Driver / Controller, Unipolar - RS232 Interface • HTM-1200 <ul style="list-style-type: none"> - 2PH Step Motor Driver / Controller, Unipolar - RS232 / USB Interface
	Lens (M3514-MP / H2Z0414C-MP)	<ul style="list-style-type: none"> • M3514-MP <ul style="list-style-type: none"> - 2/3" 35mm f1.4 w/locking Iris & Focus, Megapixel (C Mount) • H2Z0414C-MP <ul style="list-style-type: none"> - 1/2" 4-8mm f1.4 Vari-focal, Manual Iris Megapixel (C Mount)