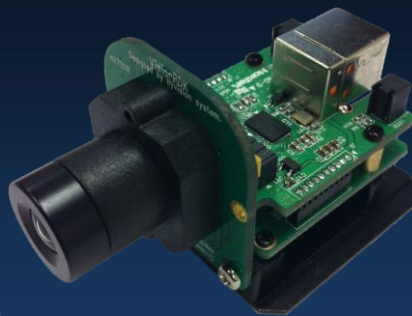
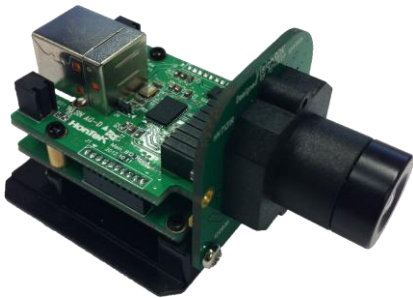


# HTC-2030R

Vision Camera / Vision RDK  
 VGA pixel image sensor / Bayer type  
 ISP control / NI Support  
 Board mount type lens  
 Intel OpenCV™ Library interface available



## Preview



## Application

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

## Contents

- Main board, USB Driver, USB Cable, User's manual, Program CD\_ SDK program source code & Library (VC++)

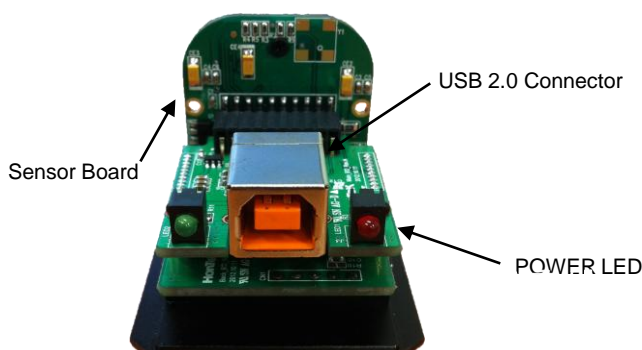
## Specification per Resolution

	300K (VGA) / Bayer
Image device	1/4.5 inch CMOS
Effective pixel	640 (H) x 480 (V)
Pixel size	5.04 x 5.04 um
Frame rate	Max. 30fps@VGA

## 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
Lens	Board mount type lens (lens default)
Multi-Camera connect	Multiple cameras connection with 1 PC available
CPU	Pentium4 2.0 GHz 이상 (2.8GHz 이상 추천)
RAM	1GB 이상 (2GB 이상 권장)
USB 2.0 Host Controller	Intel Controller chip 권장
Operating System	Windows 2000 SP4 이상 Windows XP SP2 이상 <b>* Windows 7 / Vista 사용 가능</b>
Dimension	42(w) X 35(d) X 42(h) mm

## Camera Interface



## Lens



Sensing Area	1/3" CMOS
Focal Length	6.0mm
Back Focal Length	8.12mm
F No.	1.8
Iris	Fixed
Optical Distortion	-10.62%
Angle of View	60°
Focus Extent	5cm ~ ∞

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