



BOBCAT
INTELLIGENT CAMERA SERIES

IGV-B1610



The **IGV-B1610** is an advanced high-speed progressive scan, fully programmable CCD camera designed for imaging applications that require high frame rates, high quality images, and powerful features and flexibility. The camera has a small size, light weight, and is built around SONY'S ICX-274 Interline transfer CCD image sensor with a 1/1.8" optical format. IGV-B1610 is available with Ethernet output (GigEVision compliant).

The B1610 provides an image resolution of 1628 x 1236 and delivers 25 frames per second at full resolution. The camera image processing engine is based on a high-speed, high-density FPGA, featuring programmable resolution, speed, 8 independent AOIs, binning, triggering, exposure control, line and frame time, I/O mapping, external/internal sync, AGC, transfer function correction, user LUT, and Defective and Hot Pixel Correction (DPC, HPC).

Features

- 1620/1628 x 1220/1236
- Mono and color - 8/10/12/14-bit data
- Normal and over-clock operation (17/25 fps)
- Ethernet output, GigEVision and Gen<l>Cam support
- RS232 serial communication
- Analog and digital gain and offset control
- 1x, 2x, 3x, 4x, 8x horizontal and vertical binning
- Eight (8) independent horizontal and vertical AOIs
- Programmable horizontal and vertical resolution
- Programmable line time, frame time and speed
- Programmable external trigger:
 - 3 triggering sources
 - 5 triggering modes
- Automatic gain, exposure and iris control

- Internal/External exposure control
- Internal/External H and V sync input/output
- Left/right digital bit shift
- Test image with image superimposition
- Built in pulse generator
- Programmable I/O mapping
 - 4 programmable inputs
 - 3 programmable outputs
- Dynamic transfer function correction
- Dynamic black level correction
- Defective and hot pixel correction
- Temperature monitor
- Field upgradeable firmware, LUT, DPC, HPC

Applications

- Industrial
- Medical
- Microscopy
- Military
- Scientific
- Surveillance

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