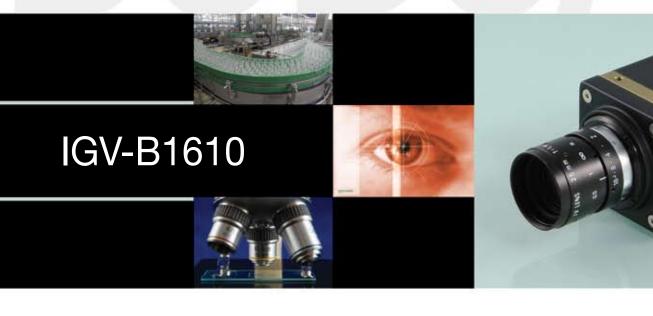
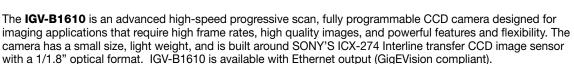


BOBCAT INTELLIGENT CAMERA SERIES





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 x1220/1236
Mono and color - 8/10/12/14-bit data
Normal and over-clock operation (17/25 fps)
Ethernet output, GigEVision and Gen<I>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

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

SACASA INDUSTRIES ET SYSTEMES 2 rue Henri Janin – 78470 ST REMY LES CHEVREUSE Tel : 01 30 47 45 86 – Fax : 01 30 47 93 37

info@sais.fr - www.sais.fr

Specifications for Bobcat IGV-B1610

Maximum Resolution Sensor Type Pixel Size Frame Rate Max Frame Rate Minimum S/N ratio Video output Output format Binnina H & V Area of Interest Shutter Speed

Long integration Gamma correction Video gain

Exposure and AGC Iris Control Hardware trigger

Software trigger

Trigger modes

Strobe output Image Overlay RS232 Interface Data corrections Min. illumination Power input range

Power consumption Size (W x H x L), Weight Lens Mount

Vibration, Shock Environmental Humidity

1628 x 1236

1/1.8" CCD ICX274

4.40 um 17/25 fps 210 fps 60 db

RJ45 CAT 5e, CAT6

mono 8/10/12/16, mono 10/12 packed, bayer 8/10/12

x1, x2, x3, x4, x8

8 independent AOIs, 2 x 2 to 1628 x 1236

1/200000 to 1/16 Up to 16 sec

G=1.0, G= 0.45, user upgradable LUT 36 dB range, 1024 steps, 0.0351 dB per step

Manual, Auto, Programmable

Auto. Programmable

LVTTL or TTL via IN1/IN2, optically isolated, level,

edge, pulse-width, programmable

Software, internal, level, edge, pulse-width,

programmable

Programmable, standard, double exposure, fast,

frame accumulation, asynchronous Programmable position and duration

Yes, Programmable

Yes Yes

0.5 Lux. F/1.4 12 VDC, (10 V - 15 V)

4.6 W

45 x 45 x 63mm, 243g

C mount

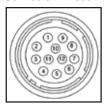
10G (20 - 200)Hz XYZ, 70G

Operation (-30° to 60°) C, storage (-40° to 70°) C

10% to 90% non-condensing

Power and I/O Interface

Connector: Hirose HR 10A-10R-12PB(71)



12V DC Return 2 +12V DC IRIS VCC 3

IRIS Video IRIS Return

10 11 Spare OUT1/2 Return 12 OUT2 Signal

8

9

OUT1 Signal

IN1/2 Return

IN1 Signal

IN2 Signal

Power Requirements

12V DC, (10V min, 15V max) 330 mA steady, 1.5 A inrush 4.0 W

Accessories

PS12V04: Power Supply (sold separately) PS12V05 Power Supply with Auto Iris (sold separately)

Ordering Information

Orderina: IGV-B1610M-SCO

Camera Family **B**-Bobcat Family

Sensor Type

M-Monochrome

C-Color

Lens Mount

C-"C" mount (default)

F-"F" Mount

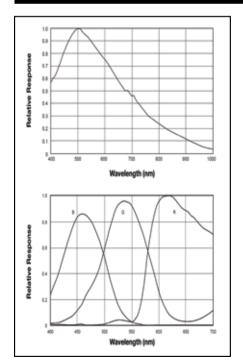
CCD

S-Sony

Spectral Response

Software/Drivers/Interface

Mechanical Dimensions



GigE Protocol: 10/100/1000 Mb/s, 802.3, Ethernet v2.0, IPv4, IGMPv.2, UPD and ICMP

Drivers for: Windows 2000/XP/XP-64/Vista32/ Vista64/Win 7-32/Win 7-64/SuSE 10/RedHat 5/ and others

Software: GigEVision Player

SDK: C++GigEVision Software Developers Kit

Support for: Labview, ImagePro, Halcon, MIL, eVision, CommonVision, StreamPix, CoreView, Streams5, Absoft Active GigE, and others

Multicast capable





For specific details and ordering information, consult the camera user's manual or contact us at sales@imperx.com.

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