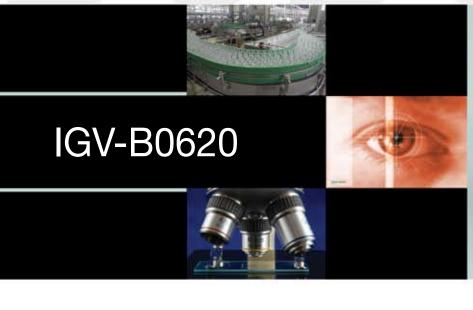


# BOBCAT INTELLIGENT CAMERA SERIES





The **IGV-B0620** 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 Kodak's KAI-0340D Interline transfer CCD image sensor with a 1/3" optical format. IGV-B0620 is available with Ethernet output (GigE Vision compliant).

The B0620 provides an image resolution of 648 x 488 and delivers up to 260 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, AEC, Auto Iris, transfer function correction, user LUT, and Defective and Hot Pixel Correction (DPC, HPC).

### **Features**

648/640 x 488/480
Mono and color - 8/10/12/14-bit data
Normal and over-clock operation (208/260 fps)
Ethernet ouput, Gig-E Vision and GeniCam 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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## Specifications for Bobcat IGV-B0620

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

Exposure and AGC Iris Control Hardware trigger

Video gain

Software trigger

Trigger modes

Humidity

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

648 x 488 1/3" CCD KAI-0340D

7.40 um

208/260 fps (normal/overclock)

2000 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 648 x 488

1/500000 to 1/110 sec

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

DPC, HPC, LUT 1 Lux, F/1.4

12 VDC, (10 V - 15 V)

4.9 W

45 x 45 x 63mm, 243q

C mount

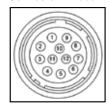
10G (20 - 200)Hz XYZ, 70G

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

3 IRIS VCC IRIS Video

5 IRIS Return

Spare OUT1/2 Return 12 OUT2 Signal

8

9

10

**OUT1 Signal** 

IN1/2 Return

IN1 Signal

IN2 Signal

# **Power Requirements**

12V DC, (10V min, 15V max) 360 mA steady, 1.5 A inrush 4.3 W

### Accessories

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

### Ordering Information

Orderina: IGV-B0620M-KCO

Camera Family **B**-Bobcat Family

Sensor Type

M-Monochrome C-Color

**Lens Mount** C-"C" mount (default)

F-"F" Mount

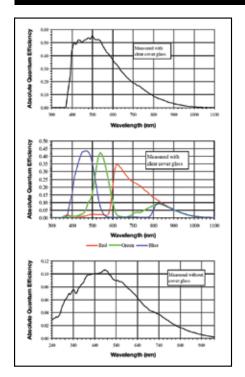
CCD

K-Kodak

### **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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