

BOBCAT INTELLIGENT CAMERA SERIES



The **IGV-B2520** 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-625 Interline transfer CCD image sensor with a 2/3" optical format. IGV-B2520 is available with Ethernet output (GigEVision compliant).

The B2520 provides an image resolution of 2456 x 2058 and delivers 16 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

2448/2456 x 2050/2058 Mono or Color - 8/10/12-bit data Normal and over-clock operation (11/16 fps) Ethernet ouput, 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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Specifications for Bobcat IGV-B2520

2456 x 2058

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 Video gain Exposure and AGC Iris Control Hardware trigger

Software trigger

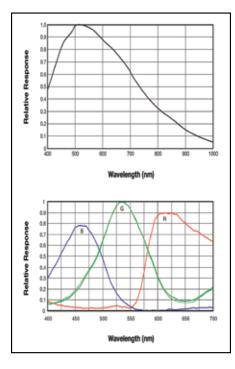
Trigger modes

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

2/3" CCD ICX625 3.45 um 11/16 fps 16 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 2456 x 2058 1/80000 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. asvnchronous Programmable position and duration Yes, Programmable Yes Yes 0.5 Lux, F/1.4 12 VDC, (10 V - 15 V) 4.9 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

Spectral Response



Software/Drivers/Interface

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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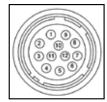
Power and I/O Interface

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

4

5

6



12V DC Return +12V DC IRIS VCC

IRIS Video

IRIS Return

8 IN1 Signal
9 IN2 Signal
10 IN1/2 Return

7

11 Spare

OUT1 Signal

OUT1/2 Return 12 OUT2 Signal

Power Requirements

12V DC, (10V min, 15V max) 400 mA steady, 1.5 A inrush 4.8 W

Accessories

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

Ordering Information

Ordering: IGV-B2520M-SCO

Camera Family

C-Color

B-Bobcat Family

Lens Mount

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

Sensor Type M-Monochrome

S-Sony

CCD

Mechanical Dimensions

