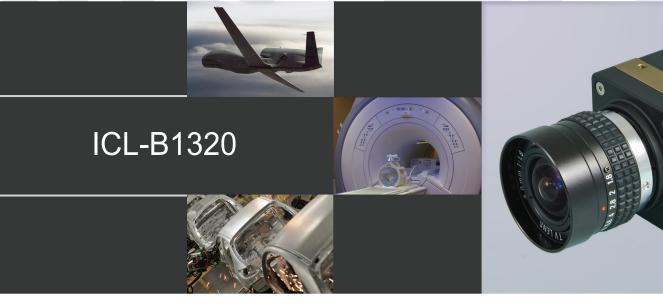
BOBCAT INTELLIGENT CAMERA SERIES





The ICL-B1320 is an advanced progressive scan, fully programmable CCD camera designed for imaging applications that require high quality images, powerful features and flexibility. The camera is small, light weight, and built around Kodak's KAI-01150 5.5 micron Interline Transfer CCD image sensor with a 1/2" optical format.

The ICL-B1320 provides an image resolution of 1320 x 736 and delivers up to 85 frames per second at full resolution. The camera's 14 bit internal data image processing engine is based on an industrial grade high-speed, high-density FPGA, enabling a broad standard feature set and easy implementation of demanding custom imaging solutions. The thermally optimized, mechanical and electrical design plus the extended operating temperature range (-40°C to +85°C), and high MTBF of 660,000 hrs @ 40C, make this Camera Link® camera a perfect fit for the most demanding industrial, medical, scientific and military applications. This camera is also available with the following interfaces: CoaXPress and GigE Vision.

Features

1320/1280 x 736/720

Mono, color, or TRUESENSE 8, 10, 12 bit single or dual output (14 bit is single only)

Normal and over-clock operation (68/85 fps)

Base Camera Link

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

Internal/External exposure control

Standard, fast, frame accumulation, double and asynchronous triggering modes

Automatic gain, exposure and iris control

Automatic white balance

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

Dynamic transfer function correction

Dynamic black level correction

Defective and hot pixel correction (static/dynamic)

Temperature monitor

Field upgradeable firmware

Customer defined Look Up Table (LUT)

Two dimensional Flat Field Correction (optional)

Reverse image (H mirror)

MTBF of 660,000 hrs. @ 40°C.

APPLICATIONS Aerial Mapping Aerial Robots: Military, Police Broadcasting Aerospace Agriculture Automation

Automotive Biometrics Printed Circuit Board (PCB) Law Enforcement Electronics Energy/Solar/Wind Power

Flat Panel Inspection Food/Beverage Homeland Security Medical Devices/Imaging

Microscopy Military/Defense Pharmaceuticals Intelligent Traffic Systems (ITS) Particle Image Velocimetry (PIV) Transportation Radiology

Robotics Surveillance Semiconductors Textile/Apparel



BOBCAT ICL-B1320 Specifications

Maximum Resolution Sensor Type Pixel Size Frame Rate Max Frame Rate Minimum S/N ratio Video Output

Output Format Binning H & V

Shutter Speed Long Integration Gamma Correction Video Gain Exposure and AGC Iris Control

Area of Interest Strobe Output Image Overlay RS232 Interface 1320 x 736 1/2" CCD KAI-01150

5.50 µm

68/85 fps (normal/overclock)

395 FPS 60 db

Base Camera Link, mini CL interface, PoCL

Mono, color, or TRUESENSE 8, 10, 12 bit single or dual

OUT1 Signal

IN1 Signal

output (14 bit is single only)

x1, x2, x3, x4, x8

8 independent AOIs, 2 x 2 to 1320 x 736

1/250,000 to 1/68 sec (nom)

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 Programmable position and duration

Yes, Programmable

Data Corrections Hardware Trigger

Software Trigger

Trigger Modes

Min. Illumination Supply Input Range **Power Consumption** Size (W x H x L)

Weight Lens Mount Vibration, Shock Environmental

Humidity **MTBF** Regulatory DPC, HPC, LUT, FFC

LVTTL or TTL via IN1/IN2, level, edge,

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

Programmable, standard, double exposure, fast, frame accumulation, asynchronous

1 Lux. F/1.4

12 VDC, (10V min, 15V max) 3.0 W, 250 mA steady, 1.5 A inrush

46 x 46 x 50.6mm

186a C mount

10G (20 - 200) Hz XYZ, 70G Operation (-40° to +85°)C Storage (-40° to +90°)C 10% to 90% non-condensing 660,000 hrs. @ 40°C

FCC 15 part A, CE, RoHS

Power and I/O Interface:



12V DC Return +12V DC 8 3 **IRIS VCC** IRIS Video 5 IRIS Return

IN2 Signal 10 IN1/2 Řeturn 11 Reserved 12 OUT2 Signal OUT1/2 Return

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

Order Options:

ICL-B1320M-KCO Monochrome CameraLink Output ICL-B1320C-KCO Color CameraLink Output ICL-B1320T-KCO TRUESENSE CameraLink Output

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

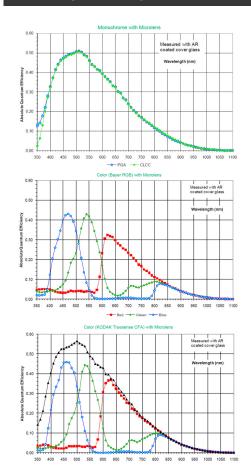
Accessories:

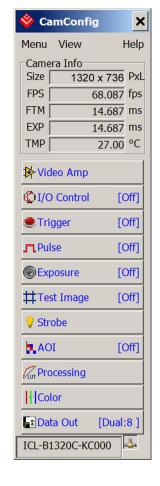
PS12V04: Power Supply (sold separately)

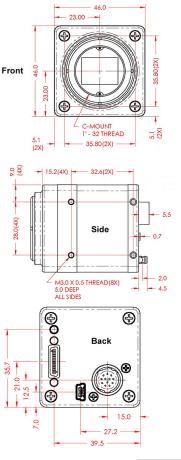
Spectral Response

Software/Drivers/Interface

Mechanical Dimensions









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