

BOBCAT2.0 B1941



Technically superior products, full tech support, rapid-response customer care. "Bobcat 2.0" adds many new features, lens control, more memory and enhanced image quality.

INTERFACES AVAILABLE:

Resolution
Sensor
Sensor Format

Pixel Size
Frame Rate Standard Clock
Frame Rate Overclocked
Maximum Frame Rate
Minimum S/N Ratio
Output Format

Analog Gain Control
Black Level Control
Digital Gain and Offset
RGB Gain and Offset
White Balance
Shutter Speed
Exposure Control
Long Integration
Regions of Interest (ROI)
Binning H/V
Trigger Inputs

Trigger Options

Trigger Modes

Double Trigger (PIV) Interframe
External Inputs/Outputs
Strobe Output
RS232 Interface
Pulse Generator
Image Overlay
Image Enhancement

Internal DDR Memory
Gamma Correction
Data Corrections

Minimum Illumination
Lens Mount
Video Iris Control
Iris, Zoom Focus Control
Supply Input Range
Power Consumption
Size – Width/Height
Size – Length
Weight
Vibration, Shock
Environmental
Humidity
MTBF
Regulatory

Camera Link® Base or Medium, CoaXPress
1920 x 1080 (std.), 1952 x 1112 (max.)

KAI-02150, CCD

10.56mm (H) x 5.94mm (V) 12.1mm diagonal
2/3" optical format

5.50 µm

40 MHz / 62 fps

50 MHz / 79 fps

542 fps

60dB

Mono CCD: 8, 10, 12

Color CCD: 8, 10, 12

TRUESENSE Sparse CFA

Manual, Auto: 0 - 36dB 1024 steps

Manual, 1024 steps

Manual

Manual

Manual, auto, off

1µs/step, 1/500,000 to 1/62 sec (nom)

Manual, auto, external

Up to 16 seconds

7 ROIs, any line to any line, any pixel to any pixel

1x, 2x, 3x, 4x, 8x (Independent for H & V)

External (TTL via IN1/IN2), pulse generator,
software, computer

Level, edge, pulse width, internal exposure,
up to 16 seconds trigger delay, debounce

Free-run, standard, double, fast, asynchronous,
frame accumulation

Time: 200 nanoseconds

2 IN, 2 OUT, user programmable

2 strobes, programmable position and duration

Yes, programmable

Yes, programmable

Optical center, programmable H & V lines

Threshold, contrast enhancement, knee correction,
horizontal flip, negative image, bit shift (+/- 7 places)

2Gb (256 MB)

G=1.0, G=0.45, user upgradeable LUT

Defective/hot pixel correction (static, dynamic), FFC,
black level, vertical smear

1 Lux, F/ 1.4

C-Mount

Auto, programmable

Manual, user programmable (motorized lens, custom)

12VDC (10V - 15V), 1.5 A inrush

CLM 6.9 W, CXP-TBD

60mm (W) x 60mm (H) – Applies to all interfaces

CLM 53.1mm (L), CXP-TBD

CLM 337g, CXP-TBD

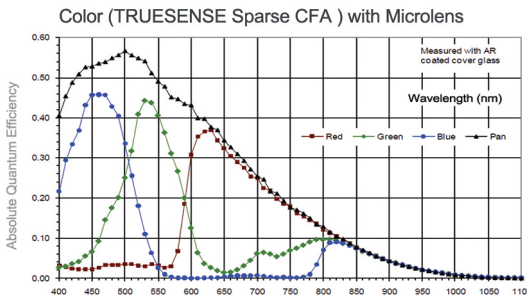
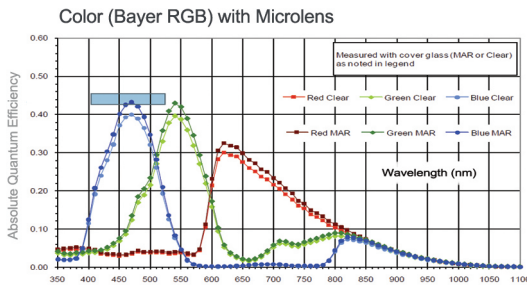
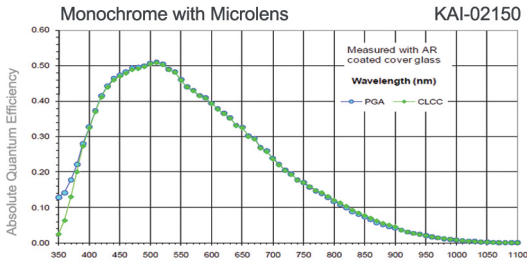
100g (20-200) HZ XYZ, 1000g

-40°C to +85°C Operating, -50°C to +90°C Storage

10% to 90% non-condensing

>660,000 hours @ 40°C

FCC 15 part A, CE, RoHS



Aerial Mapping
Aerospace
Agriculture
Automation

Aquaculture
Automotive
Biometrics
Broadcasting

Cargo
Digitization
Electronics
Food/Beverage

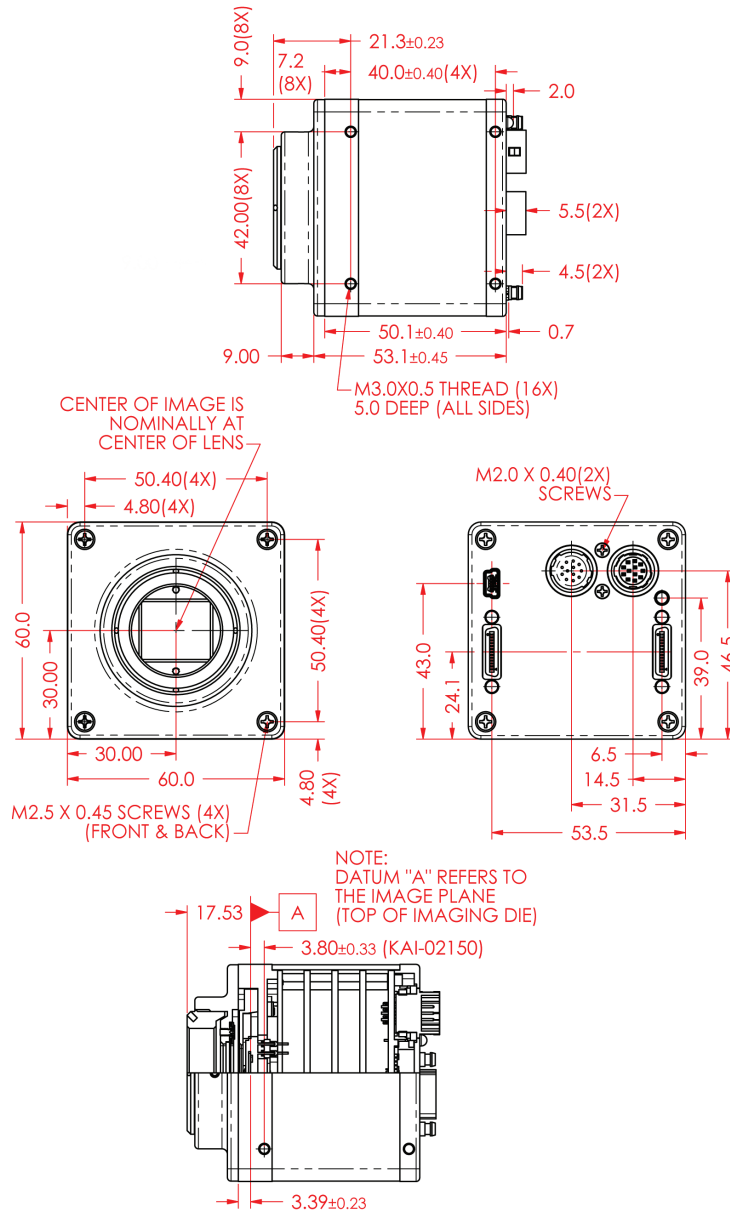
Homeland Security
Hydroponics
Energy: Solar/Wind Power
Law Enforcement

Metrology
Microscopy
Medical Devices/Imaging
Military/Defense

Pharmaceuticals
Radiology
Recycling
Robotics

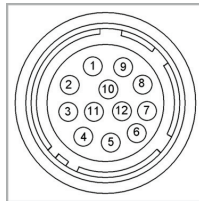
Aerial Robots
Scientific Apps
Surveillance
Semiconductors

BOBCAT 2.0 B1941 Specifications



Hirose Connectors

Power and I/O Interface



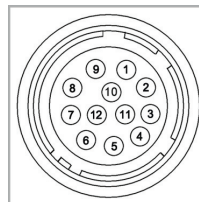
1 12V DC Return *	7 OUT1 Signal
2 +12V DC*	8 IN1 Signal
3 IRIS VCC	9 IN2 Signal
4 IRIS Video	10 IN1/2 Return
5 IRIS Return	11 Reserved
6 OUT1/2 Return	12 OUT2 Signal

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

*Not connected for CXP

Lens Control/RS232

See manual for PIN information



1 IRIS Return	7 FOCUS +
2 IRIS VCC	8 ZOOM -
3 IRIS Video	9 ZOOM +
4 IRIS -	10 UART_COM
5 IRIS +	11 UART_RX
6 FOCUS -	12 UART_TX

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

B1941 Ordering Information

Interfaces available

- Camera Link® Medium (CLM)
- CoaXPress (CXP)

Sensor types available

- Monochrome
- Bayer Color
- TRUESENSE Sparse CFA

Accessories (Sold separately)

- PS12v04-Power Supply w/ 1 input and 1 output
- PS12v05-Power Supply (as above) and Video Iris



Société SAIS
102 route de Limours - DOMAINE DE ST PAUL - BAT 14 bureau 12
78470 ST REMY LES CHEVREUSE

Tel : 09 54 16 23 53 - Fax : 09 59 16 23 53

contact@sacasa.info - www.sacasa.info

