INTERFACES AVAILABLE:
- Camera Link® Base (PoCL), GigE Vision, PoE, CoaXPress

Resolution
- 640 x 480 (std.), 648 x 488 (max.)

Sensor
- KAI-0340D, CCD

Sensor Format
- 4.79mm (H) x 3.61 mm (V) 5.92mm diagonal

Pixel Size
- 7.40 μm

Frame Rate Standard Clock
- 40 MHz / 207 fps

Frame Rate Overclocked
- 50 MHz / 259 fps

Maximum Frame Rate
- 2101 fps

Minimum S/N Ratio
- 60dB

Output Format
- Mono CCD: 8, 10, 12, 14-bit (Single only)
- Color CCD: 8, 10, 12, RGB 24

Analog Gain Control
- Manual, Auto: 0 - 36dB 1024 steps

Black Level Control
- Manual, 1024 steps

Digital Gain and Offset
- Manual

RGB Gain and Offset
- Manual

White Balance
- Manual, auto, off

Shutter Speed
- 1μs/step, 1/500,000 to 1/110 sec (nom)

Exposure Control
- Manual, auto, external

Long Integration
- Up to 16 seconds

Regions of Interest (ROI)
- 7 ROIs, any line to any line, any pixel to any pixel

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

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

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

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

Double Trigger (PIV) Interframe
- Time: 200 nanoseconds

External Inputs/Outputs
- 2 IN, 2 OUT, user programmable

Strobe Output
- 2 strobes, programmable position and duration

RS232 Interface
- Yes, programmable

Pulse Generator
- Yes, programmable

Image Overlay
- Optical center, programmable H & V lines

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

Internal DDR Memory
- 2Gb (256 MB)

On Board FIFO (GEV & PoE)
- 1Gb (128 MB)

Gamma Correction
- G=1.0, G=0.45, user upgradeable LUT

Data Corrections
- Defective/hot pixel correction (static, dynamic), black level, vertical smear

Min Illumination
- 1 Lux, F/ 1.4

Lens Mount
- C-Mount (Default), CS

Video Iris Control
- Auto, programmable

Iris, Zoom Focus Control
- Manual, user programmable

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

Power Consumption
- CLB 3.3 W, GEV 4.6 W, PoE 5.7 W, CXP TBD

Size – Width/Height
- CLB 46.8 mm (L), GEV 64.7mm (L), PoE 78.3mm (L), CXP 54.5mm (L)

Size – Length
- CLB 160g, GEV 196g, PoE 298g, CXP 190g

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

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

Vibration, Shock
- 10% to 90% non-condensing

Environmental
- >660,000 hours @ 40°C (Telcordia SR-332)

MTBF
- FCC 15 part A, CE, RoHS

Regulatory
BOBCAT 2.0 B0620 Specifications

GigE Vision (Without PoE)

GigE Vision (With PoE)

Camera Link

Interfaces available

- Camera Link® Base (CLB)
- GigE Vision (GEV / PoE)
- CoaXPress (CXP)

Sensor types available

- Monochrome
- Bayer Color

Accessories (Sold separately)

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

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-12PB(71)

B0620 Ordering Information

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