KAYA INSTRUMENTS ANNOUNCES

JETCAM

NEW GENERATION OF CAMERAS

Key Features:

- 25 Megapixel up to 80 fps
- 40 Gbps fiber optic interface
- 25 Gbps CoaXPress
- Up to 10 km cable length
- 3G SDI output for local monitor
- Nikon F mount
- B4 2/3" mount with integrated lens control*
- Compatible with KAYA Vision Point™ SDK
- Compatible with KAYA Komodo™ Frame Grabbers
- Customization as per user requirements

   *Lens control is optional

Applications:

- Slow Motion
- 3D Applications
- Sport Broadcasting
- Sports Analytics
- Special Effects

JetCam 25
Super Speed
POV Camera

Innovative Approach

JetCam 25 is a low-cost global shutter CMOS high-speed camera with Fiber or CoaXPress interfaces which supports 25 Megapixels (5120×5120) high quality video at rates up to 80 fps.

Intelligent Design

Camera incorporates 4.5µm x 4.5µm global shutter sensor and a direct lens control (optional) without need of external devices. With compact outline and low power design this camera can be fitted into tight spaces. The 3G SDI output enables connection of local monitor as viewfinder or an installation aid.
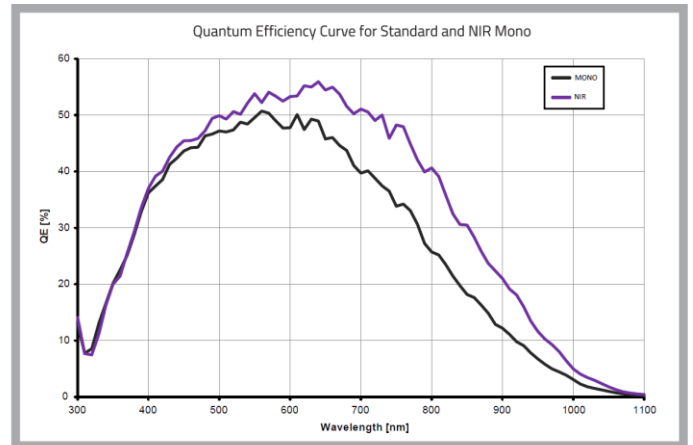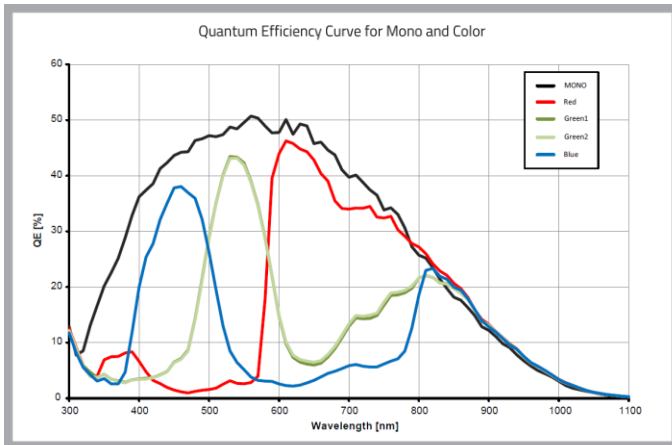
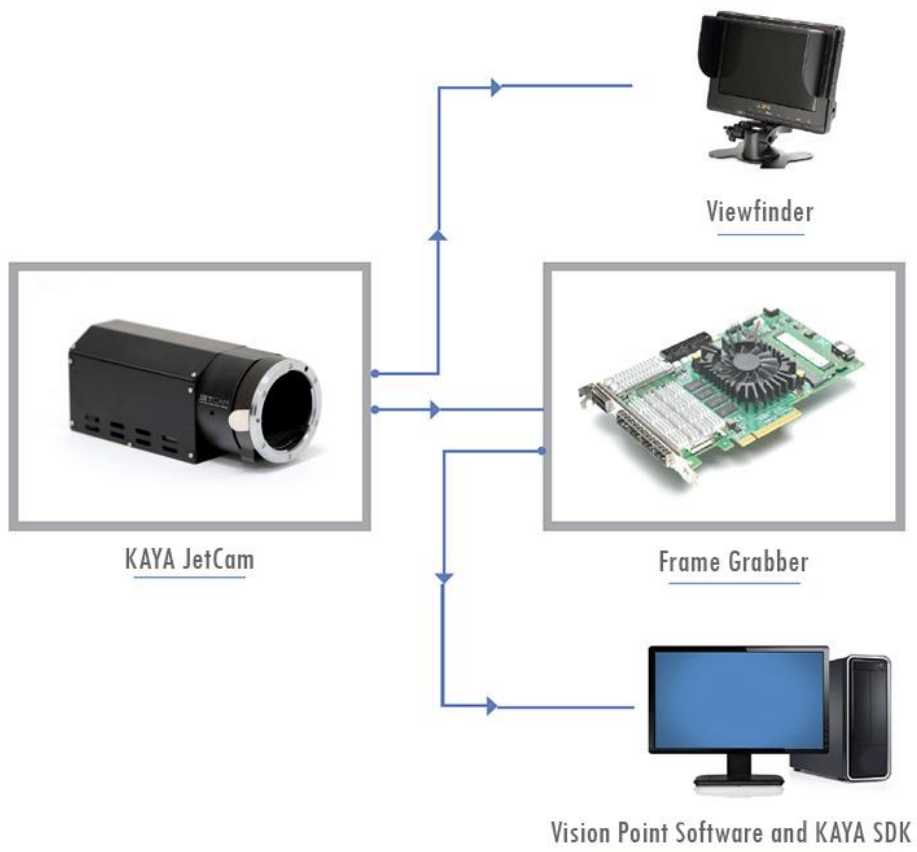## Technical Data (More detailed specifications are available on request)

Pixel size	4.5 µm x 4.5 µm
Resolution	5120 (H) x 5120 (V)
Optical Format	APS−H
Sensor	PYTHON 25k
Conversion Gain	0.085 LSB10/e-, 130 V/e-
Temporal Noise	< 14 e- (Non−Zero ROT, 1x gain)
Responsivity at 550 nm	5.8 V/lux.s
Parasitic Light Sensitivity (PLS)	< 1/5000
Quantum Efficiency (QE) X FF	43.1276% at 520 nm
Full Well Charge	> 12000 e-
Pixel FPN	< 0.9 LSB10
PRNU	< 1%
MTF	68% @ 535 nm − X−dir & Y−dir
PSNL @ 20°C (t_int = 30 ms)	91 LSB10/s, 1100 e-/s
Dark signal @ 20°C	3.9 e-/s, 0.33 LSB10/s
Dynamic range	54.6332 dB at 520 nm
Signal-to-Noise Ratio (SNR max)	39.2761 dB at 520 nm
Video output	KAYA Fiber interface up to 40 Gbps, CoaXPress up to 25 Gbps, CLHS up to 40 Gbps, 10GiGE up to 10Gbps
Frame rate	80 fps @25K
Windowing	32 Randomly programmable windows. Normal, sub-sampled and binned readout modes
ADC Resolution	10-bit
Electronic shutter	Global shutter
Image acquisition	Continuous / Triggered
Shortest Exposure	1 us
Monochrome/ color	Monochrome / Color
Power input	12 VDC (optional 24 VDC)
Weight (without lens)	1260g
Power consumption	<12W
Operating temperature	-10 °C to 50 °C
Lens mount	F-Mount, B4, C-mount, Canon EF-mount, PL mount
Programmable I/O	2x RS232 (RS485 optional)
Complimentary video output	3G SDI

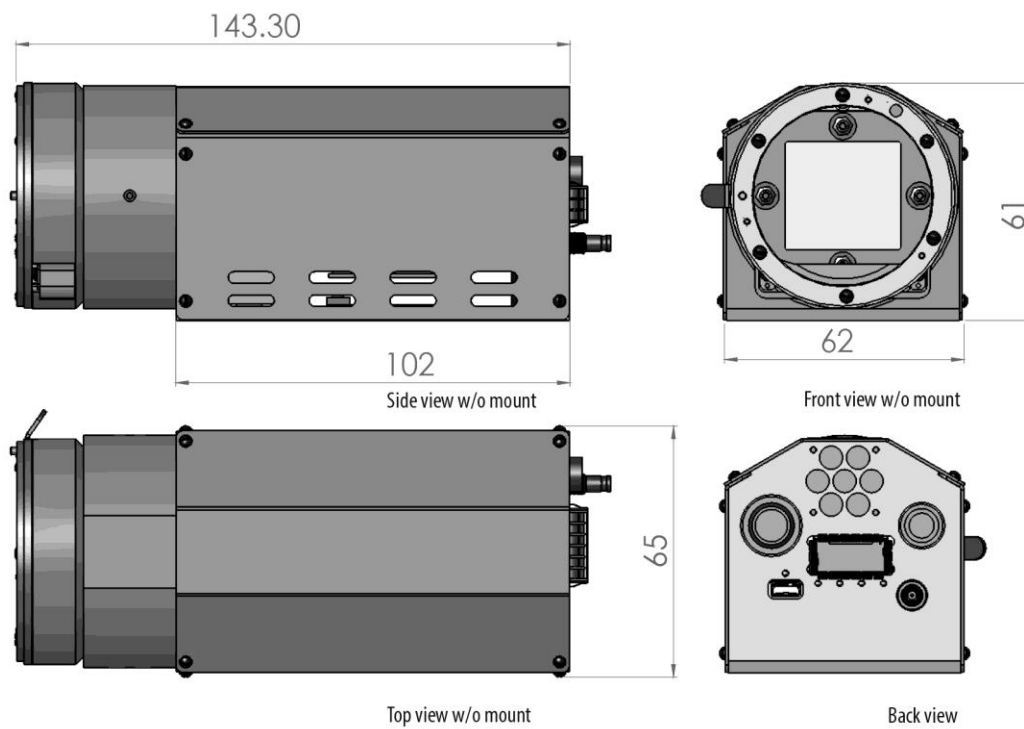| On camera processing	Defect pixel correction
	White balance
	ROI
	Image flip
	Frame counter
	Flat field correction
	LUT
	Gain (Analog / Digital)
	Auto black level
	Nonvolatile storage
Lens control	Fujinon lens control (optional)
	Custom lens control through RS232/RS485 (optional)

Quantum Efficiency

Quantum Efficiency Curve for Mono and Color

Quantum Efficiency Curve for Standard and NIR Mono

KAYA High Speed Camera Workflow

Viewfinder

KAYA JetCam

Frame Grabber

Vision Point Software and KAYA SDK

Camera Body Dimensions

143.30

102

Side view w/o mount

61

62

Front view w/o mount

65

Top view w/o mount

Back view

Compatibility

Supported vision standard

Supported vision libraries

Supported operating systems

Windows   Linux

Compatible with most popular machine vision libraries

KAYA Instrument strives to create and maintain compatibility and interfaces for the most common and advanced vision image processing libraries and applications. Major support is available for **MVTec Halcon, National Instruments LabVIEW** and **MathWorks MATLAB**. Please check our KAYA website for an up-to-date list of other supported libraries and software package.

Contact

Please visit **www.kayainstruments.com** for complete product information.
Get in touch with our team at **info@kayainstruments.com**.

We would be glad to assist you with our state-of-the-art products and solutions. Please note, we can cover specific requirements and provide customization as well.

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http://www.kayainstruments.com/cameras/

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