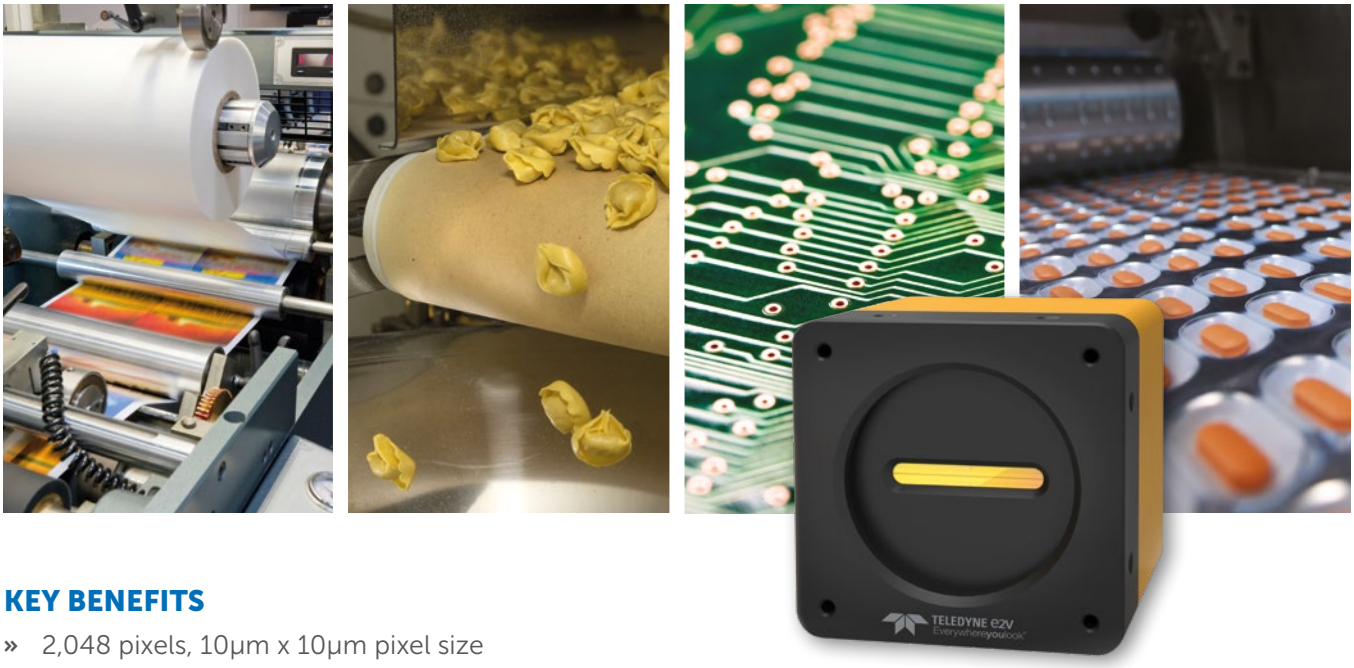
TELEDYNE e2v
Everywhereyoulook™
Part of the Teledyne Imaging Group

ELiiXA+ 2K
Monochrome and color
Line scan camera

The Power and Speed of Vision



KEY BENEFITS

- 2,048 pixels, 10µm x 10µm pixel size
- Available in monochrome or color
- CMOS lines arranged in dual line (filter) configuration
- Cycling preset modes and memories
- Multi ROI
- Metadata
- Rotary encoder
- Compatible with standard F-mount lenses
- Line rate up to 140kHz in monochrome and 100kHz in color
- NBASE-T interface
- Power consumption below 11W

APPLICATIONS

- Printing inspection
- High resolution document scanning
- Electronic inspection
- High quality raw material
- Surface inspection
- High quality food and pharmaceutical inspection
- Rail inspection
- Industrial inspection

Teledyne e2v's next generation of line scan cameras are setting new, high standards for line rate and image quality. Due to **Teledyne e2v's** recently developed multi-line CMOS technology, the cameras provide high line rates and combine high response with extremely low noise levels. This delivers high signal to noise ratio even when short integration times are required or when illumination is limited. The 10µm pixel size is arranged in two active lines and dual line filter configuration allows the camera to be operated in several modes.

MEMBER NBASE-T ALLIANCE℠

Vision Systems DESIGN 2017 Innovators Awards GOLD

The availability of the ELiiXA+ cameras with an NBASE-T™ connection offers a straightforward solution, providing:

- High throughput – enabling high resolution and color imaging without a frame grabber at speeds of up to 5 Gigabits per second (Gbps) over Category 5e standard Ethernet cable
- Easy integration – compatible with GigE Vision protocol
- Long-length (100 meters+), field terminable, inexpensive cabling – reduces costs and enables easier integration in imaging systems compared with optic fiber cabling

SENSOR CHARACTERISTICS

	Mono	Color
Resolution – pixels	2,048	
Pixel size – square µm	10	
Max line rate – kHz	140	100
Number of active lines	2	2
Camera interface	NBASE-T	

FUNCTIONALITIES

Maximum analog gain – dB	12	
Offset correction – LSB	-4,096 to +4,096	
Trigger mode	Time (free run) and triggered	
White balance	-	yes
Flat field correction	yes	
Scan direction	yes	

TYPICAL PERFORMANCES

Bit depth – bits	8/10/12	3 x 8
Spectral range – nm	300 – 1,100	
Dynamic range – dB	70	65
PRNU – %	<3	
Non linearity – %	<1	

MECHANICAL AND ELECTRICAL INTERFACE

	Mono	Color
Size – W x H x L – mm	60 x 60 x 55	
Lens mount	C, F, T2, M42 x 1	
Sensor alignment – µm	± 100	
Sensor flatness – µm	± 50	
Power supply – V	Single 12 to 24	
Power consumption – W	<11	

CONNECTORS

Control & data	GPIO 12
Power, control & data	Hirose 6 pins

GENERAL FEATURES

Operating temperature – °C	0 to 60
Storage temperature – °C	-40 to 70
Regulatory	CE, FCC and RoHS compliant

PART NUMBER	NO. OF LINES	PIXEL SIZE (µm x µm)	MONO/ COLOR	INTER-FACE	MAX LINE RATE
EV71YC4MNT2010-BA0	2	10 x 10	Mono	NBASE-T	140
EV71YC4CNT2010-BA0	2	10 x 10	Color	NBASE-T	100