

CORSIGHT 
LINE SCAN

Decentralized image processing.

SMART VISION SYSTEM - EMBEDDED COMPUTER

neto 
NEW ELECTRONIC TECHNOLOGY

CORSIGHT LINE SCAN – TECHNICAL DATA

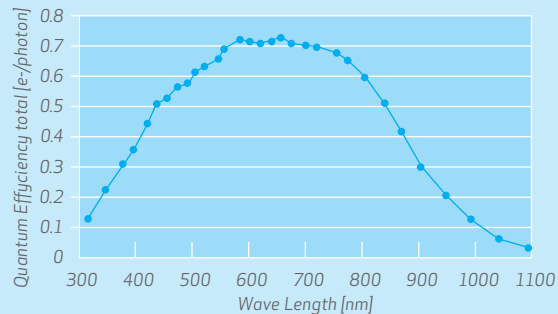
Smart line scan vision system

		2K	4K
		COL6270M	COL6435M
CAMERA	Number of pixel	2048	4096
	Sensor type	CMOS	
	Pixel size [μm]	7.00 \times 7.00	3.50 \times 3.50
	Sensor length	14.33	
	Line scan rate [kHz]	37	18
	Flat field correction	yes	
	Exposure control	yes	
	Auto functions	automatic black level	
	Video format	12-bit, single tap	
	Trigger modes	free running, triggered mode	
	Gain & blacklevel	analog gain (0...12 dB), digital gain (-6...20 dB)	
	Lens	C-Mount (CS-Mount optional)	
	Strobe ring	integrated strobe ring with a dedicated control interface (optional)	
	Industrial case	IP67	
	Dimension (WxHxD) [mm]	65 \times 109 \times 73 (without connectors and optics)	
	Weight [g]	500	
	Operating temperature	0 - 50 °C	
Operating relative humidity [%]	20 - 95, non-condensing		
Power consumption [W]	12 - 24 VDC \pm 10%, 12W (typical) or PoE+		
INTERFACES	Networking	Gigabit Ethernet (1x, optional 2x), WLAN, Bluetooth, GSM, USB2.0	
	Digital input / output	4x optocoupler, 1x TTL	
	Serial	RS232	
	Video	VGA	
	SD-Card	micro SD card slot	
PC TECHNOLOGY	CPU	Intel Atom E680 1.6 GHz	
	RAM	1GB DDR2 (optional: 2GB)	
	Mass storage	8 - 32 GB solid state drive	
	FPGA	Spartan 6	
	Supported operating system	Windows Embedded Standard 2009 / 7, Linux	
	Supported image processing libraries system	Adaptive Vision Studio, Halcon, ActivVisionTools, Common Vision Blox, MATLAB, OpenCV	

KEY FEATURES

- embedded computer, lens, lighting (no framegrabber necessary)
- 2K and 4K line scan sensor
- compact IP67 housing
- free software configuration
- Windows™ or Linux
- real-time onboard image processing
- optional customer algorithms
- wireless/remote networking

SPECTRAL SENSITIVITY 2K AND 4K CMOS SENSOR



SOFTWARE DEVELOPMENT KIT (SDK) & VIEWER SOFTWARE

CORSIGHT features full compliancy to GenICam and GenTL standards. The included SDK enables an easy integration into existing customer systems as it runs under Windows Embedded Standard 2009/7, and Linux. It supports the most common programming languages C, C++ and the framework. NET class library.

HIGHLIGHTS

- generic for all kinds of GenTL / GenICam compatible cameras
- independent of software platform
- software package/API library
- sample code generator
- easy-to-handle Explorer
- equal status with 3rd party software

3RD PARTY SOFTWARE

Due to GenTL standard compatibility CORSIGHT is easily accessible by means of 3rd party software. Drivers are available for most common image processing libraries, namely Adaptive Vision Studio, Halcon, ActivVisionTools, Common Vision Blox, MATLAB, and OpenCV.

NET New Electronic Technology GmbH

Lerchenberg 7
86923 Finning, Germany
Tel: +49 8806 9234 0
Fax: +49 8806 9234 77
info@net-gmbh.com
www.net-gmbh.com

NET Italia S.r.l.

Via Carlo Pisacane, 9
25128 Brescia, Italy
Tel: +39 030 5237 163
Fax: +39 030 5033 293
info@net-italia.it
www.net-italia.it

NET France

a branch of NET New
Electronic Technology GmbH
Tel: +33 450 45 22 92
Fax: +49 8806 9234 77
info@net-france-sas.fr
www.net-france-sas.fr

NET USA, Inc.

3037 45th Street
Highland IN 46322, USA
Tel: +1 219 934 9042
Fax: +1 219 934 9047
info@net-usa-inc.com
www.net-usa-inc.com

NET Japan Co., Ltd.

2F Shin-Yokohama 214 Bldg.
2-14-2 Shin-Yokohama, Kohoku-ku,
Yokohama-shi, 222-0033, Japan
Tel: +81 45 478 1020
Fax: +81 45 476 2423
info@net-japan.com
www.net-japan.com

Technical changes, errors
and omissions excepted.
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