

Product Guide



















Area Scan Cameras

Discover our broad product range of area scan cameras.

Ace Series



Especially small, low priced, high performance

Aviator Series



High performance, exceptional image quality, outstanding price/performance ratio

Beat Series



Brilliant CMOS Image Quality and Proven Design

Dart Series



Smallest Board Level Design, Highly Flexible, USB3 Vision Standard Compliant

Pilot Series



Excellent image quality, slim design, easily integrated

Pulse Series



A Compact and Low Weight Camera, with Elegant Design

Scout Series



50 models, proven worldwide, versatile

Line Scan Cameras

Find the right line scan camera for your application.

Racer Series



Exceptional performance low space requirement

Runner Camera



Compact, cost effective. outstanding image quality

Sprint Series



Fast, faster, sprint

L300 Series



Excellent colors, compact housing, attractive price

3D TOF Cameras

Find out more about our 3D cameras.



Maximize the Performance of your System using the Third Dimension

Network Cameras

Discover our broad portfolio of network cameras. L300 Series





HALCON 13

- Matching, Measuring, 3D Vision, Morphology, Blob Analysis
- · Calibration, OCR & OCV, Bar Code & Data Code Reading, and more
- Easy Programming in C, C++, and .NET languages like C# or VB.NET
- Integrated Development Environment HDevelop
- Support of Multi-Processor/- Core Computers. and GPU Acceleration
- Available for Windows, Linux, and OS X



MERLIC Version 3

With this release, we are adressing one of the market's strongest demands: Exploiting the power of deep learning in machine vision software.

- Enhanced OCR Based on Deep Learning Technology
- Improved Bar and Data Code Reading

IMAGE-CENTERED USER INTERFACE





MULTIPLE LANGUAGES



CUSTOM TOOLS











GigE color



- Resolution: VGA to 10 MP
- . Frame rate: Up to 120 fps
- Dim.: 29 x 29 x 57 and 29 x 44 x 57 mm
- GigE interface with PoE
- Optional external auto iris control
- · Wide range of color CMOS and CCD sensors
- Free software for camera control
- Free barcode SDK for Windows 7/8/10

Industrial Cameras USB 3.0 color



- . Resolution: VGA to 10 MP
- . Frame rate: Up to 120 fps
- Dim.: 29 x 29 x 43 and 36 x 36 x 25 mm
- Wide range of color CMOS and CCD sensors
- · Free software for camera control
- Free barcode SDK for Windows 7/8/10

Gige Zoom Camera



- Resolution: VGA to 5 MP
- Frame rate: Up to 36 fps
- Dim.: Starting at 50 x 50 x 103 mm
- GigE interface with PoE
- Integrated motorized zoom, focus and iris
- Monochrome CMOS and CCD sensors · Free software for camera control
- Free barcode SDK for Windows 7/8/10

Microscope Cameras USB 3.0 color



- Resolution: VGA to 13 MP
- Frame rate: Up to 30 fps
- Ocular- and C-mount
- · Captures full image circle
- Sony Exmor CMOS color sensor
- Free software for on-screen measurement (IC Measure)
- Free software for camera control

USB 3.0 color autofocus camera



- 2/3 inch CMOS sensor
- 7,728×5,368 (41.5 MP), up to 110 fps
- · Rolling shutter
- . Manufactured by The Imaging Source
- · Windows software included

SONY

Sony XC-E Series Monochrome CCD Cameras



- . Compact and Lightweight
- High S/N Ratio: 60dB

The XC-F Series are economical monochrome cameras that incorporate the latest 1/3" and ½" format Interline (IT) CCD sensors. Their standard analog format makes them easy to integrate for display directly on a video monitor or imaging via a computer using a capture board. The XC-ES Series are standard models for visible range, while the XC-EI Series and XC-FIJ series cover the near-infrared and near-ultraviolet ranges respectively. A 12-pin Hirose connector carries both • UV, Visible, and NIR models the signal out and power in. Individual cameras are sold without power supply. Recommended power supplies include power and 4 BNC outputs.

WAT-221S2 Color Camera - Low-Light-1/2" Water



- · Multi functions
- CCD Sensor 1/2" CS mount
- · Simultaneous output of composite video & Y/C signals
- · Low-Light Camera (until 0.0004Ix)
- . OSD, with remote control
- · AE mode: Auto or Manual

- (3DNR) Noise reduction
- WDR: ON/OFF
- Motion detection: (ON/OFF)
- · Back light compensation: ON/OFF
- Defog ON/OFF
- Digital Zoom: x2-256
- . Until 4 Privacy masks
- Mirror image
- Iris Auto / DC

WAT-902B Compact and Lightweight - 1/2"



Watec's 902B high sensitivity camera with a RCA video out and auto iris connection.

- · High sensitivity
- Shutter speed control
- Electronic iris
- · Flickerless mode
- Back light compensation
- AGC
- Gamma correction





Ring Lights - Dark Field



Back Lighting

CX0404



BL5420

Diffuselites



RICOH imagine. change.



VGA / 2 MP / 5 MP / 9 MP / 12 MP High Performance Machine Vision Lances

2 Mega-Pixel Lens (Manual Iris Lens, compatible with 2 mega-pixel cameras)

BL128

- 2 mega-pixel type lenses for a wide range of applications
- Select the optimum lens for your focal length and format size requirements

VGA Lens (Manual Iris Lens)

- An extensive line of general-use lenses boasting high-performance lens technology
- Featuring vibration-control measures, these lenses are a superior choice for installation in machine vision systems.

Line-Scan Lens

Even, high definition optical characteristics across the entire image (including the periphery) With a design optimized for FA close-up shooting, this lens is suitable for sensors up to 45 mm





Factory Automation / **Machine Vision**

2/3" 5 Megapixel Series

High-resolution design, providing support for up to 5 megapixel camera resolution.



HF16SA-1

HF50SA-1



HF25SA-1







HF12.5HA-1B



HF9HA-1B







HF35HA-1B HF25HA-1B

2/3" 5 Megapixal Series

ZEISS Lenses for Automated Imaging



. Gain valid results and completely new insights.

- ZEISS lenses for technical applications are key components in complex production processes (Machine Vision) as well as in optical metrology, medical applications, traffic enforcement, quality assurance, sports and many other applications.
- · Here they prove their outstanding image performance and reliability.

2/3" 1.5 Megapixel Series





Fish Eye Lens









HF25XA-5M HF35XA-5M

HF75HA-1B

computar

5 Megapixel Varifocal Lenses



A372812CS **MPWIR**





Board and Fisheye Lenses

AG372812FCS

MPWIR





AG372812KCS

MWPIR

Specialty Lenses



M2514FIC-MP

5 Megapixel Monofocal Lenses



MPW2



MP



MPW2



M1616FIC-







M5020FIC-**MPIR**

MG0918FC-MP



TC series

Bi telecentric lenses for matrix detectors up to 2 B



- · High telecentricity for thick object imaging
- Nearly zero distortion for accurate measurements.
- Excellent resolution for high resolution cameras.
- · Simple and robust design for industrial environments.
- · Easy filter insertion.
- · Detailed test report with measured optical parameters.

PC series

Pericentric lenses for 360° top and lateral view with just one camera



- Just one camera No need for multiple cameras placed around and over the object.
- Fast image analysis No image matching software is needed as the picture is not seamented.
- Single point of view No perspective effects typical of multi-image systems.
- Smooth on-line integration Inspected parts pass unobstructed in the free space below teh lens.





High-Speed Recording Cameras & Systems

CoaXPress



- · High-Speed CMOS Cameras
- · Extremely Fast and Flexible

MotionBLITZ® CVR



High-Speed Recording Systems for flexible use.

MotionBLITZ® LTR2p



High-Speed long time recording up to 16 hours at VGA resolution

eosens TS3



high-speed recording of up to 13 seconds

MotionBLITZ® Cube



Compact high-speed recording camera for high-speed recording of up to 13 seconds

MotionBLITZ® Director2 Kit



Handheld high-speed recording camera for Low cost high-speed recording system.

MICROSCAN

Microscan helps manufacturers drive down cost, automate critical manufacturing processes, and increase yields through data acquisition and control solutions. Product technology ranges from basic barcode reading through complex machine vision.

MicroHAWK Barcode Readers



- 3 models: ID-20, ID-30 & ID-40
- New! UHD lens with auto focus reads smallest possible
- · Read any code on any surface
- · Highly customizable hardware options
- · World's smallest industrial barcode readers
- · World's first web-based barcode reader WebLink

MicroHAWK Smart Cameras



- · Fully Integrated
- Extremely powerful
- · Compact and lightweight
- MV-20: OFM Smart Camera
- MV-30: Miniature Serial/USB Smart Camera
- MV-40: Industrial Ethernet Smart Camera

MEGA SPEED

Manufacturer And Designer Of High Speed Cameras.

MS60K-AB High Speed Cameras



- . Mega Speed MS60K-AB has a re-moveable SATA SSD for secure data protection. Auto hoot & re-arm Features ensure the camera recovers from any power failure and will always be ready to record.
- · Programmable start times or pre-post trigger modes ensure no critical events are missed.

HHC X4 PRO High Speed Cameras



- . The HHC X4 PRO is a mid level. portable high speed camera.
- The HHC X4 PRO has a 640 x 480 touch screen interface and records 600 fps 1280 x 1020.
- · Re-Moveable SSD for data security.
- Tough High Impact, light weight Industrial grade ABS body it.



Advanced Barcode Readers

Code Reader™ 1000











Xenics IR Cameras excellent for solar pariet inspects grading & sorting, waste sorting & security applications IR Cameras excellent for solar panel inspection fruit & cereal

Shortwave Infrared (SWIR) Cameras

If you need imaging in the SWIR range. Xenics offers a variety of shortwave infrared cameras based on in-house developed InGaAs arrays. The detectors offer economically viable and compact cameras that cover the VisNIR/ shortwave infrared (SWIR) spectral range up to 1.7 μ m without necessarily the need for cooling.



• Cougar-640: LN2 cooled high resolution SWIR camera

Lynx-CL & Lynx-GigE:

SWIR line-scan

camera

High-speed uncooled



 Cheetah-640CL: World's fastest SWIR camera



• Xeva-1.7-640: High resolution and cooled SWIR camera for excellent image quality

Long Wave Infrared Cameras

The perfect solution for thermal imaging



- . Gobi-640-CL: Smallest thermal Cameral ink camera
- Gobi-640 GiaE: Smallest thermal GigE vision camera



- Onca-LWIR-OWIP-384: thermal infrared camera for long range imaging
- Onca-(V)LWIR-MCT-384: Thermal infrared camera with extra spectral response filters



OEM Embedded Vision Systems

Long Wave Infrared Cameras



The VC Smart Cameras are based on the Zvng® Dual Core ARM CortexTM-A9 with 2 x 866 MHz and integrated FPGA from Xilinx®.

As with all VC Smart Cameras, these processors provide the necessary computing capacity to achieve VC standards: Extreme high-speed in realtime.

DSP Laser Triangulation

With the intelligent VC nano 3D cameras.



The VC nano 3D integrates laser and intelligent camera so that the 3D values can be calculated immediately.

Also suitable for 2D inspection tasks, the VC nano 3D combines two completely different testing procedures with only one cost-efficent system.

Compatible with M/I" HALCON

Industrial Grade Area Scan Cameras

GO Series

GO-5000-GIGE / GO-500C-USB GO-5101-PMCL / PGE / USB GO-2400-PGE / PMCL / USB





Small industrial cameras at a great price/ performance point.

Megapixel cameras with small dimensions, high frame rates and cutting edge-sensor technology

Spark Series

SP-5000-USB / SP-5000-USB





Advanced area scan cameras delivering high resolution, high frame rates, and high image quality.

Fusion Series - AD-080-GE Multi-spectral Imaging (2-CCD)





Innovative solutions for multispectral imaging.

Dual-sensor area scan cameras with unique capabilities for specialized imaging applications.

Compact

Available for iPhone® & Android ™



CompactPRO

Available for iPhone® & Android ™



Reveal

Rugged, reliable, and easy-to-use

RevealPRO

Rugged, reliable, and easy-to-use







Optics Assemblies



Laser Diode Systems



Defense Optics



Imaging Filters

// TRON Mega Pixel Low Distortion CCTV Lens

Design for low distor tion and mega pixel



- · High resolution, suitable for mega pixel camera
- Design for machine vision application, excellent performance at short WD. less than 500mm
- Reduce color aberration, compared with conventional CCTV lens
- TV distortion less than 0.1% (except for f4mm)

Over 4 Mega Pixel CCTV Lens for 1"

Large aperture, suitable for ITS



- Compatible with large format sensor
- $\bullet \ \ Suitable \ for \ 4 \ mega-12 \ megapixel \ camera$
- Stable performance at different working distance, from macro to infinity by floating design
- Excellent brightness, suitable for both machine vision and highend surveillance

Vivid Engineering

CLR-101C Camera Link Repeater



- Doubles max distance between camera and frame grabber
- Combine with shorter (i.e. 5m) cables to provide separation while ensuring data integrity in highperformance applications
- High-speed 85 MHz interface chipset, works with any base camera
- · Several repeaters may be cascaded for greater distances
- · Flow-through connector placement

COMPONENTS EXPRESS, INC.



Camera Link Cables



Gigabit Ethernet Cables



Analog Cables



Firewire Cables



Internal Camera Link Cables



BIT MAXX



M12 Industrial Cables



Power Supplies



CoaXPress Cables



Right Angle USB Cables



HSLink Cables



Specialty Cables & Products



Menzel Vision & Robotics Pvt. Ltd.

4-A, Bezzola Complex, Sion Trombay Road, Chembur, Mumbai 400 071, India Tel.: 91 22 6799 3158 • Email: info@mvrpl.com • Website: www.mvrpl.com

