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Realise your vision

This latest edition of our machine vision catalogue features the complete 2017 range of Sony camera modules, including GigE and Camera Link models.

We've included a useful market overview, together with an introduction to our class-leading sensing and processing technologies that help realise your own vision for higher imaging performance, greater reliability and lower operating costs.

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Heritage









1978

1980

1983

1989

2002

110K pixels CCD image sensor developed

World-first CCD Video camera XC-1 launched World first machine vision camera XC-37 launched

Passport size
"Handy Cam"
CCD-TR55
launched

1/2 inch 250K pixels CCD launched IP camera launched



Giving a clearer picture with over 30 years of imaging innovation



2007



2010



2015



2016

World-first
Full HD FCB-H11
camera module
launched

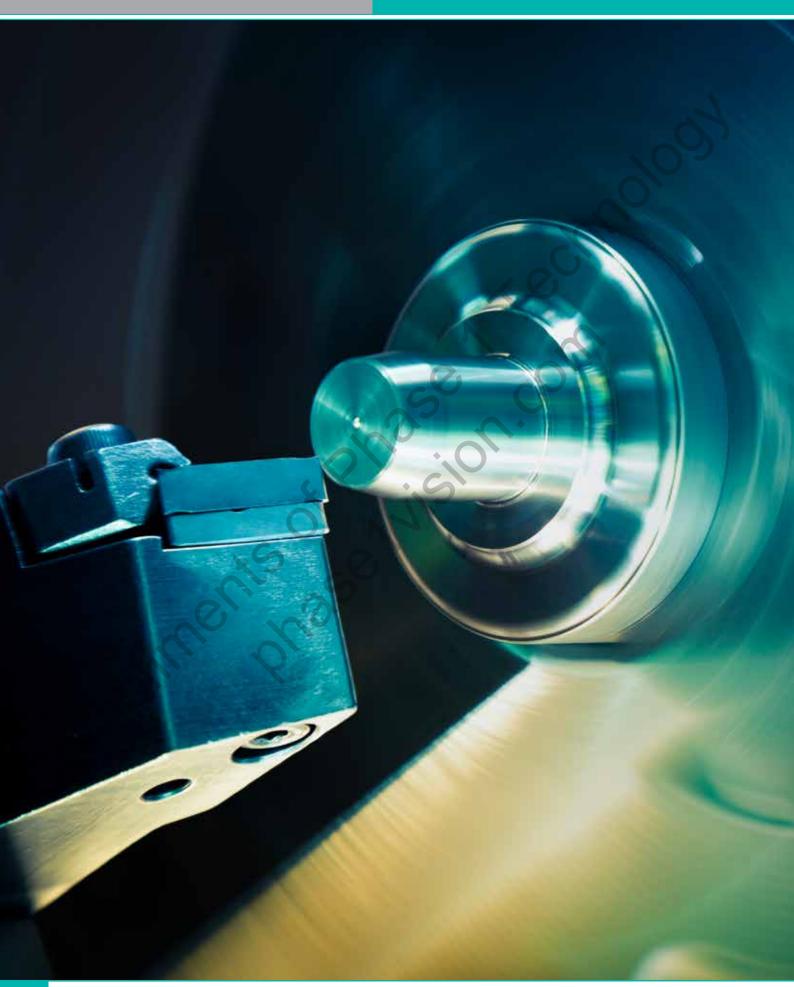
Exview HAD CCD II technology launch First 4K industrial camera

Introduction of Global shutter CMOS Pregius technology

At Sony we've been leading the way in machine vision and image sensing innovation for more than three decades.

We've consistently pushed the limits of imaging technology, from our introduction of the world's first CCD industrial video camera back in 1980.

And today we're creating even smarter, more sensitive digital camera modules - opening up exciting new possibilities to see the finest details as you've never seen them before. Whenever and wherever absolute clarity matters.





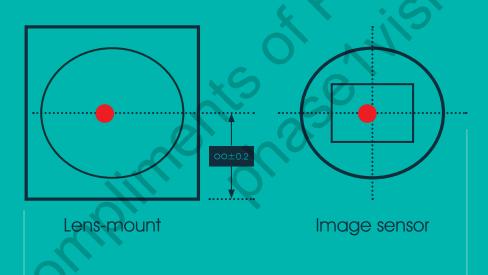
Total precision

You'll find our cameras hard at work in a wide range of machine vision environments where accurate, dependable imaging performance is paramount.

Absolute precision is designed into every Sony camera module. Image sensor and lens mount components are aligned to exceptionally fine tolerances during assembly. What's more, each module is subjected to stringent vibration, impact and environmental tests to assure industry-leading performance and long-term reliability in real-world conditions.

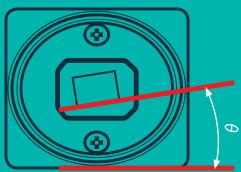
Accurate & dependable imaging

ACCURACY



Centering between lens-mount and image sensor

Alignment to within ±0.2mm



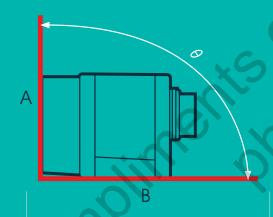
Angle of image sensor mounting

Alignment to within $\pm 1.0^{\circ}$



RELIABILITY

Demanding spec



Right Angle between attachment A and B

Alignment to within ±0.5°



Temperature operation and storing





Power supply voltage variation





Vibration





Impact





Packing falling / vibration



A clear vision for lower ownership costs

Recent advances in machine vision technologies have allowed Sony to capture images with unprecedented speed, quality and precision. Considering not just the sensor's capabilities but the environment it will be operating in, Sony has further improved image acquisition and overall camera performance for superior evaluation of the target object and more accurate results.

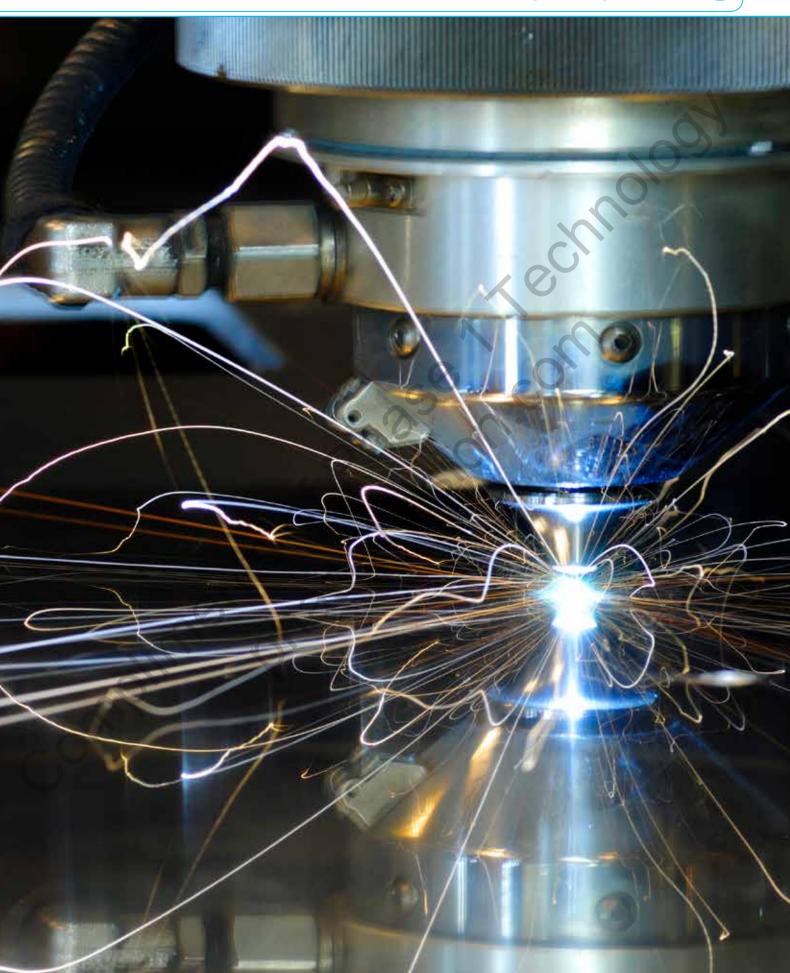
With its impressive track record in camera development and production, Sony cameras combine the best possible imaging quality from our industry-leading sensors with all round value-added features and performance.

The recent move to **Global Shutter CMOS technology** now enables an even greater array of capabilities. These allow improved imaging accuracy and speed, contributing greater value to processes and reducing overall system cost.

The XCL-SG510 series of CameraLink cameras captures fast moving objects with exceptional accuracy, even in variable lighting conditions or when shadows and glare present further challenges. Designed for use in factory automation and non-manufacturing markets such as Intelligent Traffic Surveillance, this series captures 5.1MP images at a very high frame rate of 154 fps. Additional features include region of interest and wide dynamic range.

In an industry first, the XCG-CG510 series of GigE cameras are capable of not just working as part of a system using the IEEE1588 precision time protocol, but acting as the master in it. This eliminates the need for additional hardware, thus reducing overall system cost.

Innovations in sensor development and camera design by Sony present ever more possibilities to system integrators, vision system designers and users. This improves control, accuracy and recognition in increasingly challenging circumstances where system failure is not an option. It's through this non-stop innovation that Sony continues to offer significant reductions in total ownership costs to customers.



Machinery

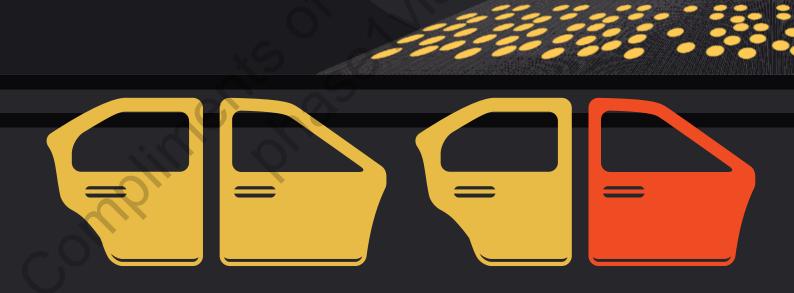
Semiconductors & Printing

PRODUCTS & SOLUTIONS

- High resolution sensor
- Colour camera
- USB & IEEE1394



The Machine Vision market in EMEA region spans a wide range of manufacturing- and non-manufacturing applications. Sony offers a complete range of cameras and modules with specialised features, ideally suited to the exacting demands of these diverse environments.



Measurement & Monitoring

Reading

PRODUCTS & SOLUTIONS

- Digital Interface
- GigE (Long distance)



Inspection

Surfaces Packaging Quality Glass **Automotive**

PRODUCTS & SOLUTIONS

- High speed GSCMOS
- High resolution
- Digital interface
- GigE & Camera Link
- Software & added value

Life Science

Medical & **Pharmaceutics**

PRODUCTS & SOLUTIONS

- High resolution sensor
- Colour camera
- IEEE1394 & USB



PRODUCTS & SOLUTIONS

Global Shutter CMOS camera

Logistics Mail sorting

• IEEE1394 & GigE

with high resolution











ITS

Traffic & Surveillance

PRODUCTS & SOLUTIONS

- Global Shutter CMOS camera
- High Frame Rate CMOS camera module
- AF built-in lens
- Software added value







XCG-CG160 / XCG-CG160C

The XCG-CG160 (black & white) and XCG-CG160C (colour) 1/2.9-type Global Shutter CMOS SXGA resolution colour camera

The XCG-CG160 and XCG-CG160C combines the best of Sony technology in a convenient form factor which is optimised for use within both the Industrial Vision and non-manufacturing vision markets.

CMOS TECHNOLOGY



KEY FEATURES

- Sony IMX273 1.6MP
- 75 fps
- Compact size
- GigE Vision 2.0/1.2
- Gigabit Ethernet with PoE
- IEEE1588 (PTP) compliant
- Area Gain

- Advanced Image Processing
- Defect Pixel Correction
- Shading Correctio

KEY SPECIFICATIONS

	XCG-CG240 / XCG-CG240C
Dimensions (W x H x D)	29 x 29 x 42 mm (excluding protrusions)
Number of effective pixels (H x V)	1,936 x 1,216
Weight	65 g
Frame rate (8 bit)	41 fps
Power consumption	DC +12 V : 3.0 W (max.) IEEE802.3af : 3.6 W (max.)

XCG-CG240 / XCG-CG240C

XCG-CG240 (black & white) and XCG-CG240C (colour) machine vision cameras featuring 1/1.2-type Global Shutter CMOS sensor with Pregius technology

The XCG-CG240 and XCG-CG240C offer a resolution of 1936 (H) x 1216 (V) with a frame rate of 41 fps, and support GigE Vision 1.2 / 2.0 with one-cable PoE capability.

CMOS TECHNOLOGY



KEY FEATURES

- Sony Pregius IMX249 2.4MP
- 41 fps
- Compact cubic size
- GigE Vision 2.0/1.2 compliant
- Gigabit Ethernet with PoE
- IEEE1588 compliant

- Area Gain
- Advanced Image Processing
- Defect Pixel Correction
- Shading Correction
- Trigger Mode
- Single ROI

	XCG-CG240 / XCG-CG240C
Dimensions (W x H x D)	29 x 29 x 42 mm (excluding protrusions)
Number of effective pixels (H x V)	1,936 x 1,216
Weight	65 g
Frame rate (8 bit)	41 fps
Power consumption	DC +12 V : 3.0 W (max.) IEEE802.3af : 3.6 W (max.)

XCG-CG510 / XCG-CG510C

XCG-CG510 (black & white) and XCG-CG510C (colour) machine vision cameras featuring 2/3-type Global Shutter CMOS sensor with Pregius technology

The XCG-CG510 and XCG-CG510C offer a resolution of 2464 (H) x 2056 (V) with a frame rate of 23 fps, and support GigE Vision 1.2 / 2.0 with one-cable PoE capability.

CMOS TECHNOLOGY



KEY FEATURES

- Sony IMX264 5.1 MP
- 23fps
- Compact cubic size
- GigE Vision 2.0/1.2
- Gigabit Ethernet with PoE
- IEEE1588 compliant

- Area Gain
- Advanced Image Processing
- Defect Pixel Correction
- Shading Correction
- Trigger Mode
- Single ROI

KEY SPECIFICATIONS

	XCG-CG510 / XCG-CG510C
Dimensions (W x H x D)	29 x 29 x 42 mm (excluding protrusions)
Number of effective pixels (H x V)	2,464 x 2,056
Weight	65 g
Frame rate (8 bit)	23 fps
Power consumption	DC +12 V : 3.0 W (max.) IEEE802.3af : 3.7 W (max.)

XCG-C30 / XCG-C30C

XCG-C30 (black & white) and XCG-C30C (colour) cubic-type machine vision camera modules with 1/3-type CCD sensor

The XCG-C30 and XCG-C30C offer a resolution of 640 (H) x 480 (V) with a high frame rate of up to 130 fps (non-PoE), and support GigE Vision 2.0 / 1.2 via Gigabit Ethernet with PoE capability.

CCD TECHNOLOGY



KEY FEATURES

- High frame rate
- Compact size
- GigE Vision 2.0/1.2
- Gigabit Ethernet with PoE
- 6-pin connector (supports DC 12 V)
- Shorter trigger latency
- Trigger range control (noise reduction)
- Sensitivity control
- Temperature read out

	XCG-C30 / XCG-C30C
Dimensions (W x H x D)	29 x 29 x 42 mm (excluding protrusions)
Number of effective pixels (H x V)	658 x 494
Weight	66 g
Frame rate (8 bit)	130 fps (Non-PoE)
Power consumption	DC +12 V : 3.2 W (max.) IEEE802.3af : 3.8 W (max.)



XCG-C130 / XCG-C130C

XCG-C130 (black & white) and XCG-C130C (colour) cubic-type machine vision camera modules with 1/3-type CCD sensor

The XCG-130 and XCG-130C offer a resolution of 1280 (H) x 960 (V) with a frame rate of 31 fps, and support GigE Vision 2.0 / 1.2 via Gigabit Ethernet with PoE capability.

CCD TECHNOLOGY



KEY FEATURES

- High frame rate
- Compact size
- GigE Vision 2.0/1.2
- Gigabit Ethernet with PoE
- 6-pin connector (supports DC 12 V)
- Shorter trigger latency
- Trigger range control (noise reduction)
- Temperature read out

KEY SPECIFICATIONS

	XCG-C130 / XCG-C130C
Dimensions (W x H x D)	29 x 29 x 42 mm (excluding protrusions)
Number of effective pixels (H x V)	1,296 x 966
Weight	66 g
Frame rate (8 bit)	31 fps
Power consumption	DC +12 V : 3.2 W (max.) IEEE802.3af: 3.4w (max.)

XCG-5005E / XCG-5005CR

XCG-5005E (black & white) and XCG-5005CR (colour) cameras incorporate the GigE Vision interface, which is specifically standardised for machine vision applications based on Gigabit Ethernet technology

This interface enables the cameras to transfer a large amount of data over long distances. The use of an Ethernet cable and the availability of a wide variety of peripheral devices contribute to significant cost reduction when designing a complete vision system.

CCD TECHNOLOGY



KEY FEATURES

- GigE Vision Interface
- High Frame Rate Image Transfer
- Bulk Trigger Mode/ Sequential Trigger Mode
- Low Power Consumption and Compact Design
- High Resistance to Shock and Vibration

	XCG-5005E / XCG-5005CR
Dimensions (W x H x D)	44 x 33 x 67.5 mm (not including protruding parts)
Number of effective pixels (H x V)	2456 x 2058
Weight	145 g
Frame rate (8 bit)	15 fps
Power consumption	4.3 W



looks familiar. performs better.



Our brand new SXGA digital cameras are worthy of everyone's attention.

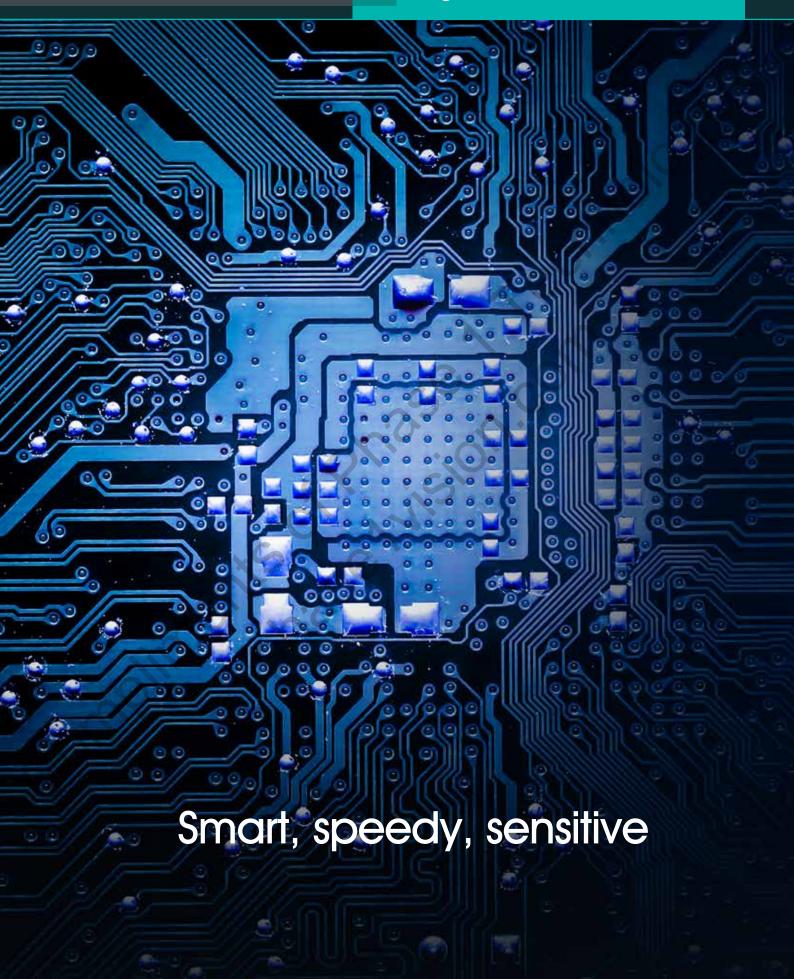
Available with a choice of GigE and USB 3.0 interfaces, they're the clear choice for a wide range of imaging applications, from general inspection and alignment to robotics, medical and ITS. With a resolution of 1.6 megapixels using our latest next-generation Pregius sensor the new XCU-CG160 & XCG-CG160 ensure crisply detailed SXGA colour or monochrome images from 75fps to over 100fps. They're an ideal upgrade from your current CCD cameras, with a familiar form factor – plus all the accuracy and long-term durability you'd expect from Sony.

Take a closer look today at image-sensing-solutions.eu

IMAGE SENSING SOLUTIONS

Digital Interface GigE Vision

Digital Interface USB3.0 Vision







XCL-CG510 / XCL-CG510C

The XCL-CG510 (black & white) and XCL-CG510C (colour) are the latest industrial cameras from Sony to incorporate Sony Pregius GSCMOS sensor technology.

Drawing upon Sony's market leading Global Shutter CMOS sensor technology the XCL-CG510C combines the highly innovative, high speed IMX264 5.1MP GSCMOS sensor with Sony's rich heritage of complete camera technology and a Camera Link interface, bringing the best combination of performance and quality from a brand you can trust.

CMOS TECHNOLOGY



KEY FEATURES

- Unique Image Processing
- High Frame Rate Image Transfer
- Shading Correction
- Defect Correction
- Temperature Readout
- Memory Channel (User Set)
- Bulk Trigger Mode & Sequential Trigger Mode
- Look-up Table (LUT)
- Industrial Design
- Wide dynamic range, Area exposure

KEY SPECIFICATIONS

	XCL-CG510 / XCL-CG510C
Dimensions (W x H x D)	42 x 29 x 29 mm (excluding protrusions)
Number of effective pixels (H x V)	2,464 x 2,056
Weight	65 g
Frame rate (8 bit)	23 fps
Power consumption	3.0 W

XCL-SG510 / XCL-SG510C

The XCL-SG510 (black & white) and XCL-SG510C (colour) cameras incorporate Pregius Global Shutter CMOS sensor technology

The XCL-SG510 and XCL-SG510C combine innovative, high speed IMX250 5.1MP Global Shutter CMOS sensor with Sony's rich heritage of complete camera technology and a Camera Link interface.

CMOS TECHNOLOGY



KEY FEATURES

- Unique Image Processing
- High Frame Rate Image Transfer
- Shading Correction
- Defect Correction
- Temperature Readout
- Memory Channel (User Set)
- Bulk Trigger Mode & Sequential Trigger Mode
- Look-up Table (LUT)
- Industrial Design
- Wide dynamic range, Area exposure

	XCL-SG510 / XCL-SG510C
Dimensions (W x H x D)	44 x 44 x 30 mm (excluding protrusions)
Number of effective pixels (H x V)	2,464 x 2,056
Weight	96 g
Frame rate (8 bit)	16 fps (Base 1 tap), 32 fps (Base 2 tap), 48 fps (Base 3 tap), 64 fps (Medium 4 tap), 124 fps (Full 8 tap), 154 fps (80 bit 10 tap)
Power consumption	5.0 W (max.) PoCL or DC in



XCL-C30 / XCL-C30C

XCL-C30 (black & white) and XCL-C30C (colour) cameras incorporate a 1/3-type sensor which delivers high sensitivity

Ideal for various applications such as ITS (Intelligent Transportation Systems) and sports shooting, as well as traditional machine vision applications.

CCD TECHNOLOGY



KEY FEATURES

- Shading Correction
- Defect Correction
- Temperature Readout
- Sensitivity Control
- Memory Channel
- Bulk Trigger Mode & Sequential Trigger Mode
- Look-up Table (LUT)
- Trigger Noise Filtering

KEY SPECIFICATIONS

	XCL-C30 / XCL-C30C
Dimensions (W x H x D)	29 x 29 x 30 mm (excluding protrusions)
Number of effective pixels (H x V)	658 x 494
Weight	56 g
Frame rate (8 bit)	130 fps
Power consumption	2.8 W (typical)

XCL-C130 / XCL-C130C

XCL-C130 (black & white) and XCL-C130C (colour) cameras incorporate a 1/3-type EXview HAD CCD™ sensor which delivers high sensitivity

Ideal for various applications such as ITS (Intelligent Transportation Systems) and sports shooting, as well as traditional machine vision applications.

CCD TECHNOLOGY



KEY FEATURES

- Shading Correction
- Defect Correction
- Temperature Readout
- Memory Channel
- Bulk Trigger Mode & Sequential Trigger Mode
- Near-infrared Sensitivity
- Look-up Table (LUT)
- Trigger Noise Filtering
- Pulse Train Generator

	XCL-C130 / XCL-C130C
Dimensions (W x H x D)	29 x 29 x 30 mm (excluding protrusions)
Number of effective pixels (H x V)	1,296 x 966
Weight	56 g
Frame rate (8 bit)	31 fps
Power consumption	2.4 W (typical)



XCL-C280 / XCL-C280C

XCL-C280 (black & white) and XCL-C280C (colour) cameras incorporate a 1/1.8-type EXview HAD CCD II™ sensor which delivers high sensitivity with 2.8MP resolution

Ideal for various applications such as ITS (Intelligent Transportation Systems) and sports shooting, as well as traditional machine vision applications.

CCD TECHNOLOGY



KEY FEATURES

- Shading Correction
- Defect Correction
- Temperature Readout
- Sensitivity Control
- Memory Channel
- Bulk Trigger Mode & Sequential Trigger Mode
- Near-infrared Sensitivity
- Look-up Table (LUT)
- Trigger Noise Filtering
- Pulse Train Generator

KEY SPECIFICATIONS

	XCL-C280 / XCL-C280C
Dimensions (W x H x D)	29 x 29 x 30 mm (excluding protrusions)
Number of effective pixels (H x V)	1,940 x 1,460
Weight	56 g
Frame rate (8 bit)	26 fps
Power consumption	3.0 W (typical)

XCL-S900 / XCL-S900C

XCL-S900 (black & white) and XCL-S900C (colour) cameras offer 9MP resolution and high frame rates, delivering exceptional picture quality that analogue cameras cannot achieve

Both cameras incorporate a 1/1-type EXview HAD CCD II sensor which provides extremely high sensitivity.

CCD TECHNOLOGY



KEY FEATURES

- Near-infrared Sensitivity
- High Frame Rate Image Transfer
- Shading Correction
- Defect Correction
- Temperature Readout
- Sensitivity Control

- Memory Channel (Userset)
- Bulk Trigger Mode & Sequential Trigger Mode
- Look-up Table (LUT)
- Trigger Noise Filtering
- Pulse Train Generator

	XCL-\$900 / XCL-\$900C
Dimensions (W x H x D)	50 x 50 x 57.5 mm (excluding protrusions)
Number of effective pixels (H x V)	3,388 x 2,712
Weight	181 g
Frame rate (8 bit)	18 fps (4ch), 9 fps (2ch), 5 fps (1ch)
Power consumption	6.0 W







It's all in the details. Inspect our smart, speedy, sensitive new camera modules.

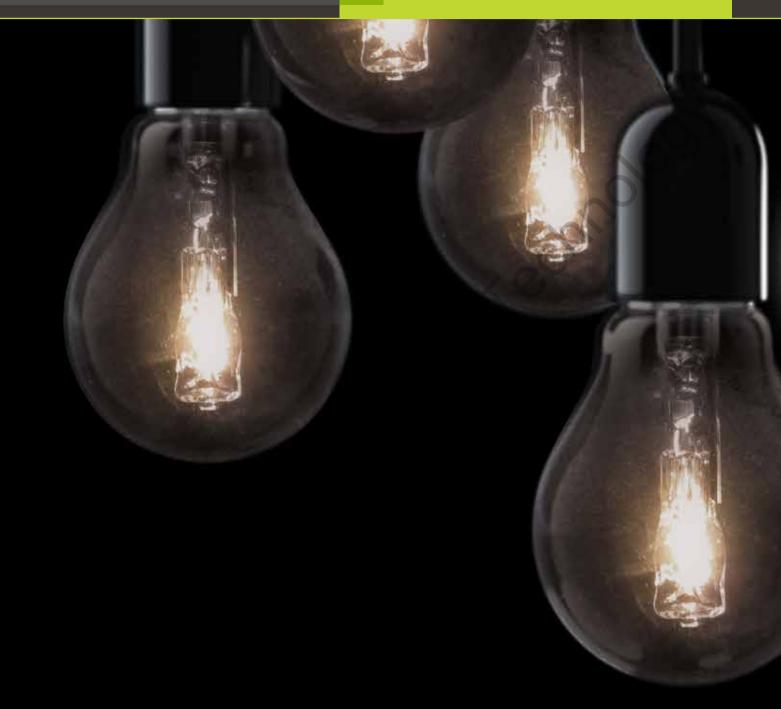
Sony's latest digital camera modules are precisely what your business is looking for. The 2/3-type 5MP Global Shutter CMOS sensor eliminates focal plane distortion, capturing accurate images on fast-moving inspection lines. High speed shooting at a blazing 150fps shortens takt time. Powerful processing boosts dynamic range and ensures accurate exposure of selected areas of interest. And with exceptional sensitivity, you'll see finer details while spending less on ambient lighting.

Realise your vision. And enjoy the returns.

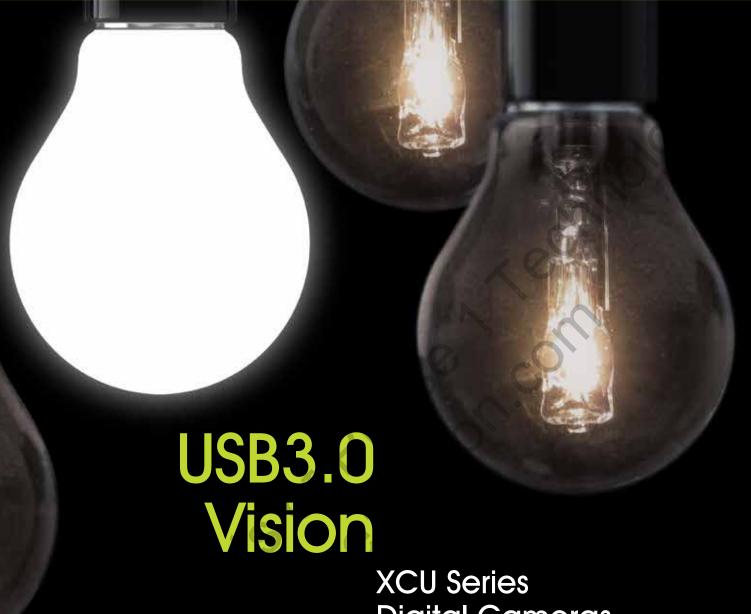
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IMAGE SENSING SOLUTIONS

Digital Interface Camera Link



Universally appealing





Digital Cameras

Available in black & white and colour versions, our new XCU Series cameras makes the most of the increasingly popular USB 3.0 Vision interface standard.

You'll enjoy the same premium imaging performance as our XCL range, with Pregius Global Shutter CMOS sensor technology assuring an optimum blend of resolution, speed and sensitivity. Providing a simple migration path from CCD, the compact XCU Series is a compelling choice for production and inspection environments where USB 3.0 Vision is the preferred architecture.

IMAGE SENSING SOLUTIONS



CMOS TECHNOLOGY

XCU-CG160 / XCU-CG160C

The XCU-CG160 (black & white) & XCU-CG160C (Colour) combines the best of Sony technology in a convenient form factor which is optimised for use within both the Industrial Vision and non-manufacturing vision markets

Drawing upon Sony's market leading Global Shutter CMOS sensor technology, combining the IMX273 1.6MP sensor in SXGA resolution with a rich heritage of complete camera technology, bringing the best combination of performance and quality from a brand you can trust.



KEY FEATURES

- Sony IMX273 1.6MP
- Approx. 100fps
- Compact size
- USB3.0 Vision 1.0.1
- Area Gain
- Advanced Image Processing
 - Defect Pixel Correction
 - Shading Correction

KEY SPECIFICATIONS

<i>Q</i> ₁	XCU-CG160 / XCU-CG160C				
Dimensions (W x H x D)	29 x 29 x 30 mm (excluding protrusions)				
Number of effective pixels (H x V)	1,456 x 1,088				
Weight	56 g				
Frame rate (8 bit)	100 fps				
Power consumption	3.0 W (typical)				

Migration from Sony CCD to Sony CMOS, the advantages of IMX273 over ICX445

Our new XCU-CG160/C and XCG-CG160/C cameras include the Sony IMX273 1.6MP SXGA resolution sensor which provides a low-disruption pathway to move from CCD to GSCMOS.

The XCU-GC160/C and XCG-CG160/C cameras are therefore an ideal replacement for industrial cameras using the highly-regarded Sony ICX445 CCD sensor.

As the table opposite shows, the IMX273 shares comparable sensor and pixel size characteristics with the ICX445, but offers significant technological improvements in sensitivity, dynamic range, noise reduction and frame rate capability. The camera's performance is further enhanced through Sony's world renowned know how in camera design.

	IMX273 B&W/Colour	ICX445 B&W/Colour	
Optical format	1/2.9-type	1/3-type	
Resolution (H x V)	1,456 x 1,088	1,296 x 966	
Sensor type	CMOS	CCD	
Pixel size (µm)	3.45 x 3.45	3.75 x 3.75	
Frame rate (fps)	75/75 with GigE (Sony XCG)	30/22 with GigE	
Shutter type	Global Shutter	Global Shutter	
Saturation signal (min.) (mV)	1001	350	
Sensitivity (min.) (mV)	790 (F8) / 970 (F5.6)	300 (F8) / 300 (F5.6)	
Dark signal (Max.) (mV)	0.19	2	
Dynamic range (dB)	73.6	59.6	
SNR (max.) (dB)	40.4	39.4	





looks familiar. performs better.



The new SXGA range from Sony; worthy of everyone's attention

Available with a choice of GigE and USB 3.0 interfaces and using our brand new IMX273 Pregius sensor the new XCU-CG160 & XCG-CG160 provide an ideal digital upgrade path from your current ICX445 CCD-based camera, along with all the performance and long-term durability you'd expect in a complete camera from Sony. With a resolution of 1.6MP crisp & detailed SXGA colour or monochrome images from 75fps to 100fps become a reality, making them suitable for a wide range of imaging applications, from general inspection and alignment, to robotics, medical and ITS.

Take a closer look today at image-sensing-solutions.eu

IMAGE SENSING SOLUTIONS

Digital Interface GigE Vision

Digital Interface USB3.0 Vision

Product Line-up 2017

Model	Image Device	Pixel Resolution	Lens Mount	Size/Mass	Key Features	
DIGITAL INTERFACE CAMERA LINK						
XCL-C30	1/3" HAD CCD (BW)	640 x 480 (VGA) 130 fps	C mount		3x3 filter, Shading correction, Defect correction, Trigger mode, PoCL & non-PoCL interfishock and vibration resistance	ace, High
XCL-C30C	1/3" HAD CCD (Colour)	640 x 480 (VGA) 130 fps	C mount		3x3 filter, Shading correction, One push WB, Defect correction, Trigger mode, PoCL & r Interface, High shock and vibration resistance	non-PoCL
XCL-C32C	1/2" HAD CCD (Colour)	640 x 480 (VGA) 104 fps	C mount		3x3 filter, Shading correction, One push WB, Defect correction, Trigger mode, PoCL & r interface, High shock and vibration resistance	non-PoCL
XCL-C130	1/3" EXview HAD CCD (BW)	1280 x 960 (SXGA) 31 fps	C mount		Near infrared sensitivity using Exview HAD Sony CCD, 3x3 filter, Shading correction, Defect correction, Trigger mode, PoCL & non-PoCL interface, High shock and vibration resistance	n
XCL-C130C	1/3" EXview HAD CCD (Colour)	1280 x 960 (SXGA) 31 fps	C mount	29 x 29 x 30 mm / 56 g	3x3 filter, Shading correction, One push WB, Defect correction, Trigger mode, PoCL & r interface, High shock and vibration resistance	non-PoCL
XCL-C280	1/1.8" EXview HAD CCD II (BW)	1920 x 1440 (2.8 M) 26 fps	C mount		Near infrared sensitivity using Exview HAD Sony CCD II, 3x3 filter, Shading correction, Defect correction, Irigger mode, PoCL & non-PoCL interface, High shock and vibration resistance	n
XCL-C280C	1/1.8" EXview HAD CCD II (Colour)	1920 x 1440 (2.8 M) 26 fps	C mount		3x3 filter, Shading correction, One push WB, Defect correction, Trigger mode, PoCL & r interface, High shock and vibration resistance	non-PoCL
XCL-C500	2/3" Super HAD CCD (BW)	2448 x 2048 (5 M) 15fps	C mount		3x3 filter, Shading correction, Defect correction, Trigger mode, PoCL & non-PoCL interface, High shock and vibration resistance	
XCL-C500C	2/3" Super HAD CCD (Colour)	2448 x 2048 (5 M) 15fps	C mount		3x3 filter, Shading correction, One push WB, Defect correction, Trigger mode, PoCL & r interface, High shock and vibration resistance	non-PoCL
XCL-CG510	Sony Pregius IMX-264 image sensor (B&W)	2448 x 2048 (5 M) 15fps	C mount	42 x 29 x 29 mm / 65 g	Unique Image Processing, High Frame Rate Image Transfer, Shading Correction, De Correction, Temperature Readout, Memory Channel (User Set), Bulk Trigger Mode &	
XCL-CG510C	Sony Pregius IMX-264 image sensor (Colour)	2448 x 2048 (5 M) 15fps	C mount	7	Trigger Mode, Look-up Table (LUT), Industrial Design, Wide dynamic range, Area exp	
XCL-S900	1" EXview HAD CCD II (BW)	3384 x 2704 (9 M) 18 fps	C mount	50 x 50 x 57,5 mm / 181 g	Near infrared sensitivity using Exview HAD CCD II, Binning/partial scan, 3x3 filter, Shadin correction, Defect correction, Trigger mode, non-PoCL interface, High shock and vibra resistance	
XCL-S900C	1" EXview HAD CCD II (Colour)	3384 x 2704 (9 M) 18 fps	C mount	> 4	3x3 filter, Shading correction, One push WB, Defect correction, Trigger mode, Camera interface, High shock and vibration resistance	Link BASE
XCL-SG510	Sony Pregius IMX-250 image sensor (B&W)	2464 X 2056 154 fps	C mount	44 x 44 x 30 mm / 96 g	Unique Image Processing (wide dynamic range, frame accumulation, area exposure gain, Multi-Region of Interest, shading correction)	, area
XCL-SG510C	Sony Pregius IMX-250 image sensor (Colour)	2464 X 2056 154 fps	C mount	***************************************	Unique Image Processing (wide dynamic range, frame accumulation, area exposure gain, Multi-Region of Interest, shading correction)	, area
XCL-U1000	1/1.8" Super HAD CCD (B/W)	1600 X 1200 (UXGA) 15fps	C mount	160	B/W, High Resolution & Sensitivity, Monitor Output, Partial Scanning, Binning function, Dig Output 10 Bit, High shock and vibration resistance	gital
XCL-U1000C	1/1.8" Super HAD CCD (Colour)	1600 X 1200 (UXGA) 15fps	C mount		Colour, High Resolution & Sensitivity – 15t/s Partial Scan, White Balance, Digital RGB 24 Camera Link Standard Conformity, Monitor Output, Partial Scanning, High shock and v resistance	
XCL-U100	1/1.8" Super HAD CCD (B/W)	1600 X 1200 (UXGA) 15fps	C mount	29 x 29 x 30 mm / 55g	PoCL / Camera Link Standard (switchable) High Resolution & Sensitivity – 15//s, Compc Lightweight with low power consumption, External Trigger, Built-in test pattern, Partial Sc function, Hardware Processing, High shock and vibration tolerance	
XCL-5005 XCL-5005CR		2448 x 2050 (5 M) 15fps 2448 x 2050 (5 M) 15fps	C mount	44 x 44 x 57.5 mm/ 130g	Ultra High Resolution Image Capture, supports both PoCL and Standard Camera Link configuration), vertical and Horizontal Partial Scanning, Hardware Pre-processing, High	
ACL-SUUSCK	2/3" Super HAD CCD (Colour)	2446 X 2030 (5 M) 13lps	CHIOURI		and vibration Resistance	
DIGITAL INTERFAC	E GIGE VISION					
XCG-\$X99E	2/3" EXview HAD CCD (BW)	1360 x 1024 (SXGA) 27 fps	C mount	44 x 33 x 67.5 mm / 145 g	Transmission of uncompressed image data at 1000Mbps, over distances of 100m; high resolution, 27fps	
XCG-H280E	2/3" EXview HAD CCD II (BW)	1920 x 1440 (2.8 M) 32 fps	C mount	50 x 50 x 57,6 mm / 200 g	High frame rate: Full HD (1920 x 1080) 59 fps (4 ch), 32 fps (2 ch), Near Infrared sensiti Memory shot, Binning/Partial scan, Trigger mode	vity,
XCG-U100E	1/1.8" Super HAD CCD (B/W)	1600 X 1200 (UXGA) 15fps	C mount	44 x 33 x 67.5 mm / 145 g	Transmission of uncompressed image data at 1000Mbps, over distances of 100m; high resolution, 15fps	
XCG-U100CR	1/1.8" Super HAD CCD (Colour)	1600 X 1200 (UXGA) 27 fps	C mount	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Transmission of uncompressed image data at 1000Mbps, over distances of 100m; hir resolution, 27 fps $$	
XCG-CG160	Sony Pregius IMX273 image sensor (B&W)	1456 x 1088 70 fps	C mount	29 x 29 x 42 mm / 65 g	Sony IMX273 1.6MP, 75 fps, Compact size, GigE Vision 2.0/1.2, Gigabit Ethernet with IEEE1588 (PTP) compliant, Area Gain, Advanced Image Processing - Defect Pixel Co Shading Correction	
XCG-CG160C	Sony Pregius IMX273 image sensor (Colour)	1456 x 1088 70 fps	C mount		Sony IMX273 1.6MP, 75 fps, Compact size, GigE Vision 2.0/1.2, Gigabit Ethernet with IEEE1588 (PTP) compliant, Area Gain, Advanced Image Processing - Defect Pixel Co Shading Correction	
XCG-CG240	Sony Pregius IMX273 image sensor (B&W)	1920 x 1200 41 fps	C mount	00 11 00 11 40 mmm / 45 m	Compact cubic size, Area Gain, defect pixel correction, shading correction, PoE/DC1 support, IEEE 1588 compliant, noise filter, LUT, short latency, external & software trigger, scan, High shock and vibration resistance	
XCG-CG240C	Sony Pregius IMX249 image sensor (Colour)	1920 x 1200 41 fps	C mount	29 x 29 x 42 mm / 65 g	Compact cubic size, Area Gain, defect pixel correction, shading correction, PoE/DC1 support, IEEE 1588 compliant, noise filter, LUT, short latency, external & software trigger, pscan, High shock and vibration resistance	
XCG-CG510	Sony Pregius IMX264 image sensor (B&W)	2448 X 2048 23 fps	C mount	20 × 20 × 42 mm / 45 m	Compact cubic size, Area Gain, defect pixel correction, shading correction, PoE/DC1 support, IEEE 1588 compliant, noise filter, LUT, short latency, external & software trigger, scan, High shock and vibration resistance	
XCG-CG510C	Sony Pregius IMX264 image sensor (Calour)	2448 X 2048 23 fps	C mount	29 x 29 x 42 mm / 65 g	Compact cubic size, Area Gain, defect pixel correction, shading correction, PoE/DC1 support, IEEE 1588 compliant, noise filter, LUT, short latency, external & software trigger, scan, High shock and vibration resistance	
XCG-5005E	2/3" Super HAD CCD (BW)	2448 x 2048 (5 M) 15fps	C mount	4400(7.5	Transmission of uncompressed image data at 1000Mbps, over distances of 100m; hi resolution, 15 fps $$	igh
XCG-5005CR	2/3" Super HAD CCD (Colour)	2448 x 2048 (5 M) 15fps	C mount	44 x 33 x 67.5 mm / 145 g	Transmission of uncompressed image data at 1000Mbps, over distances of 100m; hi resolution, 15 fps	igh

4					
Digital Interface					
XCU-CG160	Sony Pregius IMX273 image sensor (B&W)	1456 x 1088 100 fps	C mount	29 x 29 x 30 mm / 50g	Sony IMX273 1.6MP, Over 100 fps, Compact size, USB3.0 Vision 1.0.1, Area Gain, Advanced
XCU-CG160C	Sony Pregius IMX273 image sensor (Colour)	1456 x 1088 100 fps	C mount	29 x 29 x 30 mm / 50g	Image Processing - Defect Pixel Correction - Shading Correction
NON-TV FORMAT					
XC-HR50	1/3" IT Progressive Scan CCD (B/W)	648 x 494 (VGA)	C mount		BW, High Rate Scanning 60t/s Partial Scan – 240 t/s
XC-HR70	1/3" IT Progressive Scan CCD (B/W)	1024 x 768 (XGA)	C mount	29 x 29 x 30 mm / 50g	B/W, High Rate Scanning 291/s Partial Scan – 120 f/s
XC-HR90	1/3" IT Progressive Scan CCD (B/W)	1280 x 960 (SXGA)	C mount	29 x 29 x 63.5 mm / 80a	B/W, High Rate Scanning 30f/s (15f/s selectable), RS 232, Partial Scan,
	· · · · · · · · · · · · · · · · · · ·			27 X 27 X 00.0 11 11 17 00g	Low power consumption
XC-HR57 XC-HR58	1/2" IT Progressive Scan CCD (B/W) 1/2" IT Progressive Scan CCD (B/W)	648 x 494 (VGA) 767 x 580 (SVGA)	C mount	29 x 29 x 30 mm / 50g	B/W, High Rate Scanning 60t/s Partial Scan – 240 t/s B/W, High Rate Scanning 60t/s Partial Scan – 200 t/s
XC-56	1/3" IT Progressive Scan CCD (B/W)	647 x 493 (VGA)	C mount	27 X 27 X 30 111117 309	BW. High Rate Scanning 60f/s
XC-56BB	1/3" IT Progressive Scan CCD (B/W)	647 x 493 (VGA)	NF mount	CHU 22 x 22 x 30 mm / 40g	B/W, 2 Piece Camera, Minature Body, High Rate Scanning
	,			CCU 29 x 29 x 67 mm / 100g	
TV FORMAT					100
XC-ES30*	1/3" IT HAD™ CCD (B/W)	752 x 485 (EIA) 736 x 575 (CCIR)	C mount	29 x 29 x 30 mm / 50g	B/W, High Sensitivity, Small & Lightweight, Simple/Flexible Trigger
XC-ES50*	1/2" IT HAD™ CCD (B/W)	752 x 485 (EIA) 736 x 575 (CCIR)	C mount	29 x 29 x 30 mm / 50g	B/W, High Sensitivity, Small & Lightweight, Simple/Flexible Trigger
XC-ES51*	1/2" IT HAD™ CCD (B/W)	752 x 485 (EIA)	C mount	A	B/W, High Sensitivity – 0.2 lux@ F1, nearly 2x Sensitivity of XC-ST50 and XC-ES50 models
XC-EI30*	1/3" IT HAD™ CCD (B/W)	736 x 575 (CCIR) 752 x 485 (EIA)	C mount	29 x 29 x 30 mm / 50g	B/W, Near infrared Sensitivity, Small & Lightweight, Simple/Flexible Trigger
	The state of the s	736 x 575 (CCIR) 752 x 485 (EIA)		27 X 27 X 30 11111/ 309	
XC-EI50*	1/2" IT HAD™ CCD (B/W)	736 x 575 (CCIR) 752 x 485 (EIA)	C mount	(2)	B/W, Near infrared Sensitivity, Small & Lightweight, Simple/Flexible Trigger
XC-ST30*	1/3" IT HAD™ CCD (B/W)	736 x 575 (CCIR)	C mount	44 x 29 x 57.5 mm / 110g	B.W., High Sensitivity, Compact, Simple/Flexible Trigger, External Controls
XC-ST50*	1/2" IT HAD™ CCD (B/W)	752 x 485 (EIA) 736 x 575 (CCIR)	C mount		B/W, High Sensitivity, Compact, Simple/Flexible Trigger, External Controls
XC-ST70*	2/3" IT HAD™ CCD (B/W)	752 x 485 (EIA) 736 x 575 (CCIR)	C mount	44 x 29 x 57.5 mm / 105g	B/W, High Sensitivity, Compact, Simple/Flexible Trigger, External Controls
XC-505/P*	1/3 super HAD™ II Colour CDD	768 x 494 (NTSC) 752 x 582 (PAL)	NF mount	22 x 22 x 64 mm / 51 g	Colour Ultra Compact, RS-232C
COLOUR CAMERA	A BLOCK				
4K series FCB-ER8300	1/2.3 type Exmor R CMOS	Approx 8.93 Megapixels	12x Optical zoom, 12x Digital zoom	60 x 64 x 105 mm,/385 g	The new FCB-ER8300 block camera incorporates a 1/2.3-type Exmor R sensor capable of 4K resolution (3,840 x 2,160, GFHD) at up to 30p. The camera features a high-quality 12x optical zoom lens which – when combined with super resolution zoom – can maintain 4K, resolution at up to 20x zoom, providing enhanced 4K visibility within a compact form factor. Auto ICR, Slow 4R Response, Spherical Privacy Zone Masking, Defog, HLC, Noise reduction, Visibility enhancer,
Advanced HD se	ario o				Digital output, Progressive Scan Mode, Motion Detection, Picture Freeze, Slow Shutter
Advanced HD se	nies				FHD (1080p) model, 1080p60, Great FHD picture quality with 30x lens, Great senstivity, in
FCB-EV7520	1/2.8-type Exmor R CMOS	Approx 2.13 Megapixels	30x Optical zoom, 12x Digital zoom	50.0 x 60.0 x 89.7 mm / 255g	FHD Min illumination 0.35 Lux, Image Stabilisation, Stable zoom, Wide-D mode, Visibility, Enhancer, 20/3D Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking
FCB-EV7500	1/2.8-type Exmor CMOS	Approx 2.38 Megapixels	30x Optical zoom, 12x Digital zoom	50.0 x 60.0 x 89.7 mm / 260g	FHD (1080p) model, 1080p60, Great FHD picture quality with 30x lens, Great sensivity In FHD Min illumination 0.35 Lux, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 2D/3D Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking
FCB-EV7300	1/2.8-type CMO\$	America 20 Managinals	20x Optical zoom,		
		Approx 2,38 Megapixels	12x Digital zoom	50 x 60 x 87.9 mm / 270g	FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens. Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 2D/3D Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking
FCB-EV7310	1/2.8-type CMOS	Approx 2.38 Megapixels		50 x 60 x 87.9 mm / 270g 50 x 60 x 87.9 mm / 270g	Stable zoom, Wide-D mode, Visibility Enhancer, 2D/3D Noise Reduction, Analogue and Digital
FCB-EV7310 FCB-EV7320	1/2.8-type CMQS 1/2.8-type Exmor R CMOS		12x Digital zoom 20x Optical zoom,		Stable zoom, Wide-D mode, Visibility Ehnancer, 2D/3D Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking FIHD (1080p 60fps) model, Excellent FIHD picture quality with 20x lens. Excellent IR sensitivity, Visibility Enhancer, 2D/3D Noise Reduction, Digital Output, Auto ICR, Slow AE
	6	Approx 2.38 Megapixels	12x Digital zoom 20x Optical zoom, 12x Digital zoom 20x Optical zoom,	50 x 60 x 87.9 mm / 270g	Stable zoom, Wide-D mode, Visibility Enhancer, 2D/35 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Responses, Spherical Privacy Zone Masking FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens. Excellent IR sensitivity, Visibility, Enhancer, 2D/3D Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking Latest FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens. Image Stabilisation, Stable zoom, Wide-D model, Visibility Enhancer, 2D/35 Noise Reduction, Digital Output, Auto
FCB-EV7320	1/2.8-type Exmor R CMOS	Approx 2.38 Megapixels Approx 2.13 Megapixels	12x Digital zoom 20x Optical zoom, 12x Digital zoom 20x Optical zoom, 12x Digital zoom, 12x Digital zoom	50 x 60 x 87.9 mm / 270g 50.0 x 60.0 x 87.9 mm / 265g	Stable zoom, Wide-D mode, Visibility Enhancer, 2D/35 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Responses, Spherical Privacy Zone Masking FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens. Excellent IR sensitivity, Visibility Enhancer, 2D/3D Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking Latest FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens. Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 2D/35D Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking FHD (1080p) model, 1080p60, Great FHD picture quality with 10x lens, Great sensitivity in FHD Min Illumination 0.35 Lux, Stabile zoom, Wide-D mode, Visibility Enhancer, 2D/3D Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone
FCB-EV7320 FCB-EV7100	1/2.8-type Exmor R CMOS 1/2.8-type Exmor CMOS	Approx 2.38 Megapixels Approx 2.13 Megapixels Approx 2.38 Megapixels	12x Digital zoom 20x Optical zoom, 12x Digital zoom 20x Optical zoom, 12x Digital zoom 10x Optical zoom, 12x Digital zoom 30x Optical zoom,	50 x 60 x 87.9 mm / 270g 50.0 x 60.0 x 87.9 mm / 265g 45.6 x 48.8 x 78.0 mm / 210g	Stable zoom, Wide-D mode, Visibility Ehrhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Responses, Spherical Privacy Zone Masking FHD (1080p. 60fps) model, Excellent FHD picture quality with 20x lens, Excellent IR sensitivity, Visibility Ehrancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Responses, Spherical Privacy Zone Masking Latest FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking FHD (1080p) model, 1080p60, Great FHD picture quality with 10x lens, Great senstivity in FHD Min illumination 0.35 Lux, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking HD (720p) model, HD picture quality with 30x lens, Great senstivity in HD Min illumination 0.25 Lux, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Responses, Spherical Privacy Zone Masking
FCB-EV7320 RCB-EV7100 FCB-EV5500	1/2.8-type Exmor R CMOS 1/2.8-type Exmor CMOS 1/2.8-type Exmor CMOS	Approx 2.38 Megapixels Approx 2.13 Megapixels Approx 2.38 Megapixels Approx 1.37 Megapixels	12x Digital zoom 20x Optical zoom, 12x Digital zoom 20x Optical zoom, 12x Digital zoom 10x Optical zoom, 12x Digital zoom 30x Optical zoom, 12x Digital zoom 20x Optical zoom, 20x Optical zoom,	50 x 60 x 87.9 mm / 270g 50.0 x 60.0 x 87.9 mm / 265g 45.6 x 48.8 x 78.0 mm / 210g 50 x 60 x 89.7 mm / 260g	Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Responses, Spherical Privacy Zone Masking FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens. Excellent IR sensitivity, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking Latest FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens. Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking FHD (1080p) model, 1080p60, Great FHD picture quality with 10x lens, Great sensitivity in HD Min Illumination 0.35 Lux, Stable zoom, Wide-D mode, Visibility Enhancer, 2D/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking HD (720p) model, HD picture quality with 30x lens, Great sensitivity in HD Min Illumination 0.25 Lux, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 2D/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking HD (720p 60fps) model, HD picture quality with 20x lens and excellent sensitivity, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Fahancer, 2D/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking FHD (1080p) model, 1080p60, Great FHD picture quality with 20x lens, Great senstivity in FHD Min Illumination 0.1 Lux, Stable zoom, Wide-D mode, Visibility Finhancer, 2D/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking
FCB-EV7320 RCB-EV7100 FCB-EV5500 FCB-EV5300	1/2.8-type Exmor CMOS 1/2.8-type Exmor CMOS 1/2.8-type Exmor CMOS 1/3-type CMOS	Approx 2.38 Megapixels Approx 2.13 Megapixels Approx 2.38 Megapixels Approx 1.37 Megapixels Approx 1.37 Megapixels	12x Digital zoom 20x Optical zoom, 12x Digital zoom 20x Optical zoom, 12x Digital zoom 10x Optical zoom, 12x Digital zoom 30x Optical zoom, 12x Digital zoom 20x Optical zoom, 12x Digital zoom 20x Optical zoom, 20x Optical zoom, 20x Optical zoom, 20x Optical zoom,	50 x 60 x 87.9 mm / 270g 50.0 x 60.0 x 87.9 mm / 265g 45.6 x 48.8 x 78.0 mm / 210g 50 x 60 x 89.7 mm / 260g 50 x 60 x 87.9 mm / 270g	Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Responses, Spherical Privacy Zone Masking FHD (1080p 60fps) model, Excellent FHD picture quality with 20x iens, Excellent IR sensitivity, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking Latest FHD (1080p 60fps) model, Excellent FHD picture quality with 20x iens, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking FHD (1080p) model, 1080p60, Great FHD picture quality with 10x iens, Great sensitivity in FHD Min illumination 0.35 Lux, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking HD (720p) model, HD picture quality with 30x Iens, Great sensitivity in HD Min illumination 0.25 Lux, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking HD (720p 60fps) model, HD picture quality with 20x Iens and excellent sensitivity, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking HD (720p 60fps) model, HD picture quality with 20x Iens and excellent sensitivity, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking HD (1080p) model, 1080p60, Great FHD picture quality with 20x Iens, Great sensitivity in FHD III illumination 0.1 Lux, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise
FCB-EV7320 RCB-EV7100 FCB-EV5500 FCB-EV5300 FCB-IV7315	1/2.8-type Exmor CMOS 1/2.8-type Exmor CMOS 1/2.8-type Exmor CMOS 1/3-type CMOS	Approx 2.38 Megapixels Approx 2.13 Megapixels Approx 2.38 Megapixels Approx 1.37 Megapixels Approx 1.37 Megapixels	12x Digital zoom 20x Optical zoom, 12x Digital zoom 20x Optical zoom, 12x Digital zoom 10x Optical zoom, 12x Digital zoom 30x Optical zoom, 12x Digital zoom 20x Optical zoom, 12x Digital zoom 20x Optical zoom, 20x Optical zoom, 20x Optical zoom, 20x Optical zoom,	50 x 60 x 87.9 mm / 270g 50.0 x 60.0 x 87.9 mm / 265g 45.6 x 48.8 x 78.0 mm / 210g 50 x 60 x 89.7 mm / 260g 50 x 60 x 87.9 mm / 270g 50 x 60 x 87.9 mm / 270g	Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Responses, Spherical Privacy Zone Massing FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens. Excellent IR sensitivity, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking Latest FHD (1080p 60fps) model, Excellent FHD picture quality with 20x lens. Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking FHD (1080p) model, 1080p60, Great FHD picture quality with 10x lens, Great sensitivity in HD Min Illumination 0.35 Lux, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking HD (720p) model, HD picture quality with 30x lens, Great sensitivity in HD Min Illumination 0.25 Lux, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Analogue and Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking HD (720p 60fps) model, HD picture quality with 20x lens and excellent sensitivity, Image Stabilisation, Stable zoom, Wide-D mode, Visibility Fahancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking FHD (1080p) model, 1080p60, Great FHD picture quality with 20x lens, Great senstivity in FHD Min Illumination 0.1 Lux, Stable zoom, Wide-D mode, Visibility Enhancer, 20/30 Noise Reduction, Digital Output, Auto ICR, Slow AE Response, Spherical Privacy Zone Masking

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