SONY
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Image Sensing Solutions

Sony have designed, developed and manufactured a range of imaging products that you can depend upon, even in the most demanding applications. From factory automation, microscopy and inspection to security and process control, we thoroughly understand your requirements and the specialised environments in which our products need to operate.

XCD series

1/3-type global shutter CMOS sensor
XCD-MV6

Sony continues to expand its popular XCD IEEE1394b camera series with the latest introduction of its ultra-compact and lightweight, monochrome XCD-MV6. This new progressive scan camera incorporates a 1/3-type wide VGA global shutter CMOS sensor and is one of the smallest IEEE1394b cameras available on the market.

The XCD-MV6 measures just 19 mm in depth and weighs only 37 grams. Combining high-quality images with a miniaturized body, the XCD-MV6 is ideally suited for space-restricted machine vision and robotic applications.

- Ultra-compact body measuring (W x H x D) :29 × 29 × 19 mm
- IEEE1394b S1600 Compliant-High data transfer rate (up to 1600 Mbps)
- IIDC Ver. 1.32 Compliant
- Broadcast delivery function - Enables the sending of commands (e.g. software trigger and adjusting camera settings) when used in a multiple camera system.

- Various image correction capability
  - Defect pixel correction
  - Fix pattern noise correction
  - Shading correction
    Up to ±25% luminance difference can be corrected by Shading correction function.
- Partial scan functions
- Temporal image storage functions allows for later transmission

	XCD-MV6
Standard image size (H x V)	640 x 480 (VGA)
Bit length — Mono 8	100 frames maximum
Bit length — Mono 16	100 frames maximum

- High shock and vibration resistance

1/1.8-type PS CCD (UXGA size 15 fps)
XCD-U100(B/W)
XCD-U100CR(RAW Colour)

1/3-type PS CCD (SXGA size 15 fps)
XCD-SX90(B/W)
XCD-SX90CR(RAW Colour)

1/3-type PS CCD (VGA size 90 fps)
XCD-V60(B/W)
XCD-V60CR(RAW Colour)

- High image quality, high-speed image output
- Daisy chain connection
- Hardware preprocessing
  The camera is equipped with hardware LUT (Lookup Table).
- 3 × 3 Image Filter (B/W model only)
- Bus synchronization
- Broadcast delivery of commands
- Memory channel

- Bulk trigger mode
- Memory shot
- Partial scan
- Binning
- 9-pin connector with fixing screws
- Low power consumption, vibration-resistant structure, and compact size
- IIDC Ver. 1.31 protocol compliant

	XCD-U100 XCD-U100CR	XCD-SX90 XCD-SX90CR	XCD-V60 XCD-60CR
Standard image size (H x V)	1,600 x 1,200 (UXGA)	1,280 x 960 (SXGA)	640 x 480 (VGA)
Bit length — Mono 8/Raw8	8 frames	13 frames	54 frames
Bit length — Mono 16/Raw16	4 frames	6 frames	27 frames