





FCB-EV7100

FCB-IV7315



Specifications

| | | FCB-IV7315 | FCB-EV7100 |
|--|-----------------------|--|---|
| Image sensor | | 1/2.8-type Exmor CMOS | |
| Image sensor (Number of effective pixels) | | Approx. 2.38 Megapixels | |
| Signal system | | 1080p/59.94,1080p/50,1080p/60,1080p/30,1080p/29.97,1080p/25, 1080i/59.94,1080i/50,1080i/60,1080i/30,720p/59.94,720p/50,720p/60, 720p/30,720p/29.97,720p/25,NTSC*1,PAL* | |
| Minimum illumination | High sensitivity mode | Colour: 0.1 lx (F1.6, AGC on, 1/30 s) | Colour: 0.35 lx (F1.8, AGC on, 1/30 s) |
| (50%) | Normal mode | Colour: 0.4 lx (F1.6, AGC on, 1/30 s) | Colour: 1.4 lx (F1.8, AGC on, 1/30 s) |
| S/N ratio | | More than 50 dB | |
| Gain | | Auto/Manual (0 step to 28 step (0 dB to 47.8 dB), +2 step/total 15 steps) | Auto/Manual (0 step to 28 step, +2 step/total 15 steps) |
| | | Max. Gain Limit (6 step to 28 step (17.1 dB to 47.8 dB),+2 step step/ total 12 steps) | Max. Gain Limit (6 step to 28 step, +2 step/total 12 steps) |
| Shutter speed | | 1/1 s to 1/10,000 s, 22 steps | |
| Sync system | | Internal | |
| Exposure control | | Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation, Slow AE | |
| Backlight | t compensation | Yes | |
| A | Aperture control | 16 steps | |
| White balance | | Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto), One-push, Manual | |
| Lens | | 20x optical zoom f = 4.7 mm (wide) to 94 mm (tele) F1.6 to F3.5 | 10x optical zoom f = 3.8 mm (wide) to 38 mm (tele) F1.8 to F3.4 |
| | Digital zoom | 12x (240x with optical zoom) | 12x (120x with optical zoom) |
| Focusing system | | Auto (Sensitivity: normal, Iow), One-push AF, Manual, Interval AF, Zoom Trigger AF, Focus compensation in ICR on | |
| | 1080p mode | 59.5° (wide end) to 3.3° (tele end) | 67.0° (wide end) to 7.6° (tele end) |
| Horizontal viewing angle | 720p mode | 59.5° (wide end) to 3.3° (tele end) | 67.0° (wide end) to 7.6° (tele end) |
| | SD | 44.6° (wide end) to 2.5° (tele end) | 50.3° (wide end) to 5.7° (tele end) |
| Minimum object distance | | 10 mm (wide end) to 1,000 mm (tele end) (Default: 300 mm) | 10 mm (wide end) to 800 mm (tele end) (Default: 320 mm) |

Colour Block Camera

Sony proudly introduces a new family of Full-HD modules to its FCB block cameras suitable for non-security applications.

The new FCB-IV7315 camera module incorporates a 20x optical zoom lens suitable for short distance applications. In addition, this camera incorporates an Optical Low Pass Filter (OLPF) that provides extremely clear images, decreasing the effect of moiré when shooting documents or artificial patterns from a close distance. These useful features are ideal for low vision systems.

The FCB-EV7100 camera module incorporates a10x optical zoom lens and wide dynamic range. This camera provides high quality images with both digital and analog output.

Now with a choice of non-security modules, you can select the right camera to match your specific needs. Each camera provides flexibility and high image quality for a wide variety of applications, including document scanning.

* Non-standard video format

Specifications

| | solutions | |
|--|-----------|--|
| | | |
| | | |
| | | |

| | | FCB-IV7315 | FCB-EV7100 |
|-------------------------|----------------------------|---|---|
| | Auto ICR | Ye | es |
| | Wide-D* | No Yes (130 dB) | |
| Visibility Enhancer | | Ye | əs |
| De-fog | | Yes | |
| HLC | | Yes | |
| Noise reduction | | Yes (6 steps) | |
| Progressive scan mode | | Yes | |
| Image stabilization | | No | |
| Image stabilizatio | n for still image | No | |
| | StableZoom | Yes | |
| Digital output | | Yes | |
| Spherico | al privacy zone masking | Yes | |
| Mot | ion detection | Ye | es |
| Alarm | | No | |
| Slow AE response | | Yes | |
| Picture effects | | E-Flip, Nega Art, Black & White, Mirror image, Colour enhancement | |
| Picture freeze | | Yes | |
| Slow shutter | | Yes | |
| Temperature readout | | Yes | |
| | Title display | 20 characters/line, max. 11 lines | |
| Camera | mode display | Yes | |
| Key s | switch control | No | |
| Camera operation switch | | No | |
| | HD | N/A | Analog: Component (Y/Pb/Pr) |
| Video output | | Digital: Y/Cb/Cr 4:2:2 via LVDS (Signal format conforms to SMPTE 274/SMPTE 296.) | |
| | SD | VI | BS |
| Camora oo | ntrol interface | VISCA (CMOS 5 V level) | VISCA protocol (CMOS 5V level) |
| Cumera cor | morimenace | Baud rate: 9.6 Kbps, 19.2 Kbps, 38.4 Kbps, 115.2 Kbps, Stop bit: 1 bit | |
| Power requirements | | 6.0 V to 12.0 V DC | |
| Power consumption | | 2.4 W (zoom/focus inactive) | 3.4 W (zoom/focus inactive) |
| | | 2.9 W (zoom/focus active) | 3.7 W (zoom/focus active) |
| Operating temperature | | -5°C to +60°C (23°F to 140°F) | |
| Storage temperature | | -20°C to +60°C (-4°F to 140 °F) | |
| Operating humidity | | 20% to 80%, Absolute humidity: 36 g/m ³ | |
| Storage humidity | | 20% to 95%, Absolute humidity: 36 g/m³ | |
| Dimensions (W x H x D) | | 50.0 x 60.0 x 87.9 mm (2 x 2 3/8 x 3 1/2 inches) | 45.6 x 48.8 x 78.0 mm (1 13/16 x 1 15/16 x 3 1/8 inches) |
| Mass | | 270 g (9.6 oz) | 210 g (7.4 oz) |

| Pin No. | Name | Level |
|---------|-----------|--|
| 1 | TXOUT3+ | |
| 2 | TXOUT3- | |
| 3 | TXCLKOUT+ | |
| 4 | TXCLKOUT- | |
| 5 | TXOUT2+ | |
| 6 | TXOUT2- | |
| 7 | TXOUT1+ | |
| 8 | TXOUT1- | |
| 9 | TXOUT0+ | |
| 10 | TXOUTO- | |
| 11 | GND | |
| 12 | TxD | CMOS 5 V (Low: Max. 0.1 V, High: Min. 4.4 V) |
| 13 | RxD | CMOS 5 V (Low: Max. 1.0 V, High: Min. 2.3 V) |
| 14 | DC IN | 6 to 12 V DC |
| 15 | DC IN | 6 to 12 V DC |
| 16 | DC IN | 6 to 12 V DC |
| 17 | DC IN | 6 to 12 V DC |
| 18 | DC IN | 6 to 12 V DC |
| 19 | GND | |
| 20 | GND | |
| 21 | TXOUT7+ | Single out mode: open |
| 22 | TXOUT7- | Single out mode: open |
| 23 | TXOUT6+ | Single out mode: open |
| 24 | TXOUT6- | Single out mode: open |
| 25 | NC | |
| 26 | RESET | Reset: Low (GND Normal: Open (1.8 V) |
| 27 | TXOUT5+ | Single out mode: open |
| 28 | TXOUT5- | Single out mode: open |
| 29 | TXOUT4+ | Single out mode: open |
| 30 | TXOUT4- | Single out mode: open |

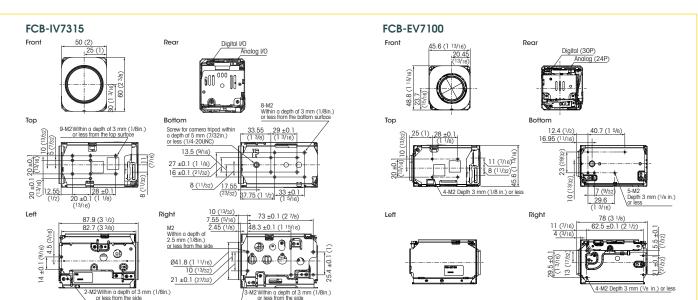
Pin assignments

| Pin No. | Name | Level |
|---------|---------|--|
| 1 | GND | |
| 2 | TxD | CMOS 5 V (Low: Max. 0.1 V, High: Min. 4.4 V) |
| 3 | RxD | CMOS 5 V (Low: Max. 1.0 V, High: Min. 2.3 V) |
| 4 | RESET | Reset: Low (GND) Normal: Open (1.8 V) |
| 5 | GND | |
| 6 | NC | |
| 7 | GND | |
| 8 | NC | |
| 9 | GND | |
| 10 | VBS-OUT | |
| 11 | GND | |
| 12 | Y-OUT | HD Analog Component |
| 13 | GND | |
| 14 | Pb-OUT | HD Analog Component |
| 15 | GND | |
| 16 | Pr-OUT | HD Analog Component |
| 17 | GND | |
| 18 | DC IN | 6 to 12 V DC |
| 19 | DC IN | 6 to 12 V DC |
| 20 | DC IN | 6 to 12 V DC |
| 21 | DC IN | 6 to 12 V DC |
| 22 | GND | |
| 23 | DC IN | 6 to 12 V DC |
| 24 | GND | |

Connector: 046240024006800+ (Kyocera-elco)

* Wide dynamic range

Dimensions



Unit: mm (inches)

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PHC_14/01/2015