



FCB-H11

High Definition
Colour Block Camera



Features

Superb Picture Quality with Two Megapixel HD CMOS Sensor

The FCB-H11 employs a 1/3-type HD CMOS sensor (approximately two million effective pixels) providing excellent picture quality and high-resolution images.

Multi-Format Video Outputs from NTSC/PAL to Full HD

The FCB-H11 can provide full High-Definition video in 1080i format. Depending on your application and configuration, you can select the format that is right for you. With eight video formats from SD to full HD, the FCB-H11 camera module allows you to easily migrate from SD to HD.

Day/Night Function

With a new Day/Night capability, the FCB-H11 offers optimal sensitivity in changing light conditions, which is a typical challenge in round-the-clock security operations. As the scene darkens, an infrared filter is automatically replaced with a clear filter, and the camera switches to black-and-white mode, allowing for operation at a minimum illumination of 1.0 lx (F1.8, 50 IRE).

120x Zoom Ratio
(10x Optical + 12x Digital)

The FCB-H11 incorporates a 10x optical zoom lens allowing for a zoom capability of up to 120x when used in combination with its 12x digital zoom. Combining these lens features, users can effortlessly capture close-up or wide-angle shots.

Compact and Lightweight Design

The compact and lightweight body of the FCB-H11 allows it to be installed in many different space-restricted environments.

Picture Freeze Function

The Picture Freeze Function outputs a still image while the FCB-H11 camera is panning, tilting, zooming, focusing, initialising the lens, or performing preset operations. This helps prevent the display of unnecessary images during these operations.

Other Features

- SPOT AE Function
- Slow Shutter
- Low Power Consumption (4.8 W)

Combining excellent picture quality, multiple video outputs and a newly-added Day/Night function, the FCB-H11 makes vision solutions crystal clear.

The world of HD expanded into the industrial imaging arena with the debut of Sony's first HD block camera, the FCB-H10. Now, continuing its commitment to HD picture quality for applications that require dynamic, high-resolution images that are also flexible, Sony is introducing the FCB-H11. This stunning new model extends application possibilities by incorporating a new Day/Night function that enables the camera to capture high-quality colour images during the day and clear, black-and-white images at night. In addition, the FCB-H11 camera achieves a minimum illumination of 1.0 lx by dynamically removing the infrared cut filter and allowing the spectral responsivity range to extend into the near infrared.

The FCB-H11 incorporates a 1/3-type HD CMOS image sensor boasting approximately two million effective pixels, and provides a 16 x 9 aspect ratio, making it ideal for use with wide-screen displays. This camera also features multi-format video outputs, satisfying user needs for High-Definition (HD) and Standard-Definition (SD) applications. When extremely clear, super picture quality HD images are required, the FCB-H11 camera offers 1080i and 720p signals. This versatile and flexible camera can also be used with an SD system to allow easy migration from SD to HD when you are ready.

The FCB-H11 inherits a multitude of functions from the world-renowned FCB Series. With a 120x zooming capability, Picture Freeze function, SPOT AE function and Slow Shutter, the FCB-H11 is ideal for applications such as inspection, video conferencing, low vision, cable TV broadcasting, and point-of-view (POV) applications. Furthermore, with the incorporation of the Day/Night function, which is essential for monitoring, this camera is a great choice for a wide range of security applications in, for example, parking lots, retail stores, and many other locations.

SONY

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Specifications

| FCB-H11 | |
|----------------------------|---|
| Image sensor | 1/3-Type CMOS |
| Effective number of pixels | Approx. 2,000,000 Pixels |
| Aspect ratio | HD 16:9 SD 4:3/16:9 |
| Lens | 10x optical zoom, f=5.1 mm (wide) to 51.0 mm (tele), F1.8 To F2.1 |
| Digital zoom | 12x (120x with optical zoom) |
| Horizontal angle of view | 50° (Wide) to 5.4° (Tele)* |
| Minimum object distance | 10 mm (wide) to 800 mm (tele) |
| Sync system | Internal |
| Minimum illumination | ICR off mode : 12 lx (typical) (F1.8, 50 IRE) ICR on mode : 1 lx (typical) (F1.8, 50 IRE) |
| S/N ratio | More than 50 db |
| Electronic shutter | 1/2 To 1/10,000 s, 21 steps |
| White balance | Auto, Indoor, Outdoor, One-push, Manual |
| Gain | Auto/Manual (-3 to 18 db, 8 steps) |
| AE control | Auto, Manual, Shutter Priority, Iris Priority, Bright, Spot AE |
| EV compensation | -10.5 To 10.5 DB (15 steps, 1.5 DB increments) |
| Backlight compensation | On/off |
| Signal system | HD 1080/59.94i, 1080/50i, 720/59.94p, 720/50p SD NTSC (Crop/Squeeze), PAL (Crop/Squeeze) |
| Video output | HD Analogue Component: Y/Pb/Pr SD VBS: 1.0 Vp-p (sync negative) Y/C |
| Focus system | Full Auto (Normal AF/interval AF/Zoom Trigger AF), One-push Trigger, Manual, Infinity, Near Limit Setting |
| Picture effects | Nega Art, Black & White, Picture Freeze |
| Camera operation switch | Zoom tele, Zoom wide |
| Camera control interface | VISCA (TTL signal level), baud rate: 9.6 Kb/s, 19.2 Kb/s, 38.4 Kb/s, stop bit: 1 bit |
| Storage temperature | -20 to 60 °C (-4 to 140 °F) |
| Operating temperature | 0 to 45 °C (32 to 81 °F) |
| Power consumption | 6 to 12 V DC/4.8 W |
| Mass approx. | 120 g (4.2 oz) |
| Dimensions (w x h x d) | 47.2 X 43.1 X 72.2 mm (1 7/8 x 1 3/4 x 2 7/8 inches) |
| Supplied accessory | 24P FFC (Flat Flexible Cable) |

* In HD and SD SQUEEZE output mode

Pin assignment & connector

24 P FFC Connector for Camera Control, Analogue Video Output, Power

| Pin No. | Name | Level |
|---------|----------|-------------------------------|
| 1 | GND | |
| 2 | TxD | TTL Level (0 V - 5.0 V) |
| 3 | TxD | TTL Level (0 V - 5.0 V) |
| 4 | RESET-IN | Reset: Low (GND) Normal: Open |
| 5 | GND | |
| 6 | Y_OUT | Y/C Y_OUT |
| 7 | GND | |
| 8 | C_OUT | Y/C C_OUT |
| 9 | GND | |
| 10 | VBS OUT | |
| 11 | GND | |
| 12 | Y_OUT | HD Analogue Component |
| 13 | GND | |
| 14 | Pb OUT | HD Analogue Component |
| 15 | GND | |
| 16 | Pr OUT | HD Analogue Component |
| 17 | GND | |
| 18 | POWER | 6.0 V - 12.0 V DC |
| 19 | POWER | 6.0 V - 12.0 V DC |
| 20 | POWER | 6.0 V - 12.0 V DC |
| 21 | POWER | 6.0 V - 12.0 V DC |
| 22 | GND | |
| 23 | POWER | 6.0 V - 12.0 V DC |
| 24 | GND | |

Connector: KYOCERA ELCO 04 6240 224 006 848+

Dimensions

Unit: mm (inches)

