



## BV-C340/BV-C340M HDTV Camera Module

The **BV-C340** is a HDTV camera module complied with 1080 50P/60P format using 1/1.8-inch global shutter CMOS sensor. It can capture high resolution images without blurring by full HDTV resolution and 60 fps frame rate. The **BV-C340M** is a monochrome version.



### Main Features

- ◆ 1/1.8" 3.2M pixel CMOS sensor with the global shutter
- ◆ 42 x 42 mm small size, three boards configuration
- ◆ Full HD outputs featuring 3G-SDI : 1080/60P/50P,  
HD-SDI : 1080/30P/25P, 1080/60i/50i
- ◆ Analog output is simultaneously available for monitoring  
(Color: NTSC/PAL, Monochrome: EIA/CCIR)
- ◆ DC lens iris control (Day & Night function)
- ◆ Maximum 48 dB gain up
- ◆ Back light correction (OFF/ON) (detection area selectable)
- ◆ Corresponds to internal/external synchronization (HD/VD) (only to color version)
- ◆ Gain up with 2:1 binning ON/OFF function (960 x 540 pixels image)
- ◆ Various functions to create the image suitable for the shooting environment:
  - Digital noise reduction (2D & 3D)
  - Digital zoom (maximum 6 times)
  - Fog reduction
  - Digital image stabilization (only for HDTV output)
- ◆ Camera control by on-screen menu or serial interface

### Merchandise Line

- ◆ Board construction: Sensor board, Main board, SDI I/F board, one each
- ◆ BV camera control tool (attached at the time of the first shipment)
- ◆ Instruction manual (attached at the time of the first shipment)
- ◆ Communication manual (attached at the time of the first shipment)

**BlueVision Co., Ltd.**

## Specifications

Items & Functions	BV-C340 / BV-C340M
Image sensor	1/1.8-inch Bayer (BV-C340), B/W (BV-C340M) CMOS, Global shutter
Total pixel	2064(H) x 1554(V)
Effective image pixel	1920(H) x 1080(V) Image circle is equivalent to 1/2.35-inch
Scan system	Progressive
Synchronization	Internal / External (HD/VD, only for color version)
Video output	Digital: 3G-SDI: 1080/60P/50P HD-SDI : 1080/30P/25P, 1080/60i/50i, 720/60P/50P Analog: NTSC/PAL (BV-C340), EIA/CCIR (BV-C340M)
Minimum illumination	Color: 0.015lx (F1.4, AGC 48dB, Binning ON, Video level 50IRE) Monochrome: 0.008lx (F1.4, AGC 48dB, Binning ON, Video level 50IRE)
S/N	50dB (Typical) (AGC off)
White balance	ATW / One push / Manual (BV-C340)
Gamma correction	ON:0.45 / OFF:1.0
AGC	Max. 48dB
Iris control	Lens iris (DC control), Electronic iris
Electronic shutter	OFF, 1/100, 1/120 ~ 1/10000
Slow shutter	OFF, x2, x3, x4, x5, x6, x7, x8, x9, x10, x20, x30
Binning	ON/OFF, ON: 960x540 pixels
Interface	Serial interface (UART +3.3V)
Input voltage	DC 12V (+10%, -20%)
Current consumption	300mA (Use DC lens, in operation) (standard)
Dimensions (W x H)	42 x 42 mm

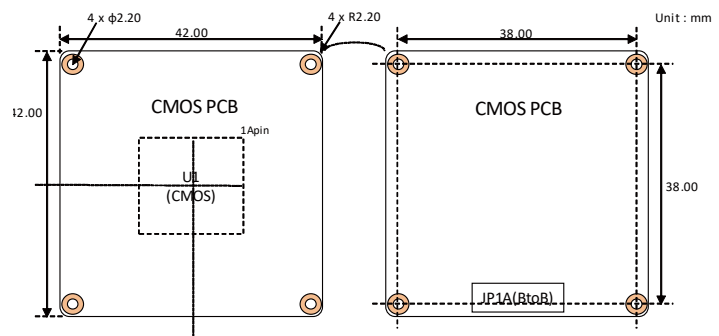
Specifications are subject to change without prior notice.

## Used Connectors

Used Connectors	Applications	Connector Model No.
CN 1	U A R T	J S T : S M 0 5 B - S R S S - T B
CN 6	D C I r i s	M o l e x : 5 3 2 6 1 - 0 4 7 1
CN 7	P o w e r / V i d e o / E x t . I N	M o l e x : 5 3 3 9 8 - 1 0 7 1
CN 8	D A Y & N I G H T	M o l e x : 5 3 2 6 1 - 0 2 7 1
J 1	3 G / H D - S D I O u t p u t	M o l e x : 7 3 4 1 5 - 1 6 3 0

## Dimensions of Substrate

Each of the three board has same dimensions.



## BlueVision Co., Ltd.

3-17-2 Shin-Yokohama, Kohoku-ku  
Yokohama-shi, Kanagawa 222-0033 JAPAN  
TEL: 045-471-4595 / FAX: 045-471-4598  
URL: <http://www.bluevision.jp>  
Contact: [sales@bluevision.jp](mailto:sales@bluevision.jp)

