

B/W CCD Camera Module
BE-101B
Specifications

- 1) Imaging device 1/2 type interline CCD
- 2) Total pixels EIA: 811 (H) × 508 (V)
CCIR: 795 (H) × 596 (V)
- 3) Pixel size EIA: 8.4 (H) × 9.8 (V) μm
CCIR: 8.6 (H) × 8.3 (V) μm
- 4) Effective pixels EIA: 768 (H) × 494 (V)
CCIR: 752 (H) × 582 (V)
- 5) Imaging area EIA: 6.45 (H) × 4.84 (V) mm
CCIR: 6.47 (H) × 4.83 (V) mm
- 7) Video effective output pixels EIA: 752 (H) × 485 (V)
CCIR: 738 (H) × 575 (V)
- 8) Signal format Conforming to EIA or CCIR
- 9) Scanning system 2:1 interlaced
- 10) Horizontal drive frequency EIA: 14.318 MHz
CCIR: 14.1875 MHz
- 11) Horizontal scanning frequency EIA: 15.734 kHz
CCIR: 15.625 kHz
- 12) Vertical scanning frequencies EIA: 59.94 Hz
CCIR: 50 Hz
- 13) Sync system Internal/external, automatic selection
- 14) External sync input HD and VD 4 Vp-p negative
Impedance 75 Ω
Frequency deviation ±1 %
- 15) Video output 1.0 Vp-p 75 Ω unbalanced
Video component 0.7 Vp-p
Sync component 0.3 Vp-p negative
- 16) Resolution EIA: 570 (H) × 485 (V) TV lines
CCIR: 560 (H) × 575 (V) TV lines
- 17) Sensitivity 400 lx, F4, 3200 K
- 18) Minimum object illumination 0.3 lx, F1.4, AGC and gamma on,
with out infrared cut filter
- 19) Signal to noise ratio 56 dB

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DWN	A. Kouchi	01.2.01
DSGN	M. Suzuki	01.2.01
CHK	M. Suzuki	01.2.01
APPD	N. Yamazaki	01.2.01

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Specifications

Hitachi Kokusai Electric Inc.
Tokyo Japan

7498395/5



- 20) Electronic shutter 1/100 (EIA), 1/120 (CCIR), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 second.
Selected by changing chip parts.
Factory setting is off.
- 21) Integration mode Field or frame (Factory setting is frame)
Selected by changing chip parts.
- 22) Gamma correction On or off (Factory setting is off)
Selected by changing chip parts.
- 23) Sensitivity selection Fixed gain or AGC (Factory setting is fix)
Selected by changing chip parts.
- 24) Power supply voltage 12 ±1 VDC
- 25) Power consumption Approx. 160mA
- 26) Ambient temperature and humidity .. Operating: -10 to 50°C RH less than 90 %
Storage: -20 to 60°C RH less than 70 %

Caution: For continued stable operation, the camera should be used under 40°C or less when it is used continuously for extended period of time.

- 27) Dimensions 45(W) × 45(H) × 20(L)mm
- 28) Mass 25g approx.
- 29) Composition Black and white camera module : 1
Interface cable : 1

Note : The standard accessory cable is 300 mm signal conductor.
Different length cable requires shielding to avoid external noise.

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CHK		..			
APPD		..			



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Caution

The specifications of this equipment are subject to change without notice for improvement. Prior to placing your order, be sure to confirm that these specifications are the latest ones. Hitachi Kokusai Electric guarantee that the equipment shipped from our factory conforms to the Hitachi Kokusai Electric's standard warranty conditions and perform quality control within the range necessary to perform the warranty.

Warranty and After-sales Service

- 1) The guarantee period is one year after the date of purchase. However, the defects due to erroneous use or intentional act are excluded.
- 2) As the defect after expiration of the guarantee period, Hitachi Kokusai Electric will repair the equipment if the intended function is restored by the repair work, and the cost is charged to a customer.
- 3) Hitachi Kokusai Electric is not liable for the losses caused when the equipment is used in a system used for business trades, production process, medical fields, crime prevention applications, etc.
- 4) The parts used in the equipment have their respective lives. The lives of such parts will be shortened under the environments of high temperature or high humidity. When the stable operation is required for a long time, it is recommended to perform periodical maintenance and inspection every year or every two years.

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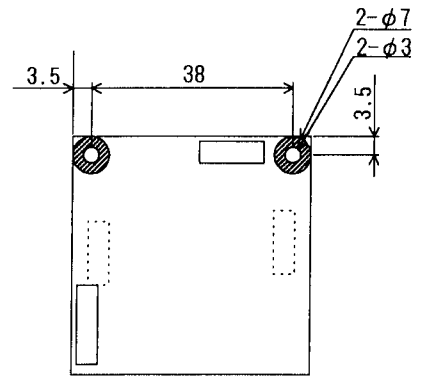
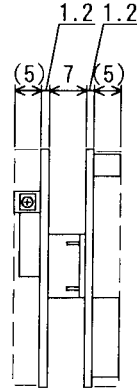
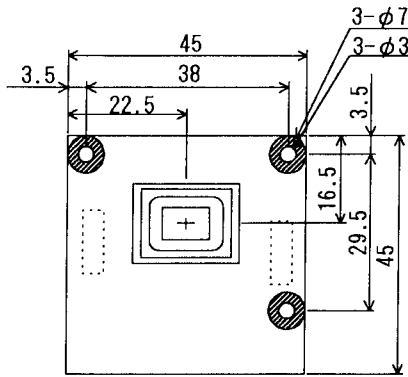
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External view

BE-101B

External view



Mass: approx. 25g
Unit: mm

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DATE	CORRECTION AND REASONS		BY	CHKD	APPD

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