

SANYO

1/4" Color CCD DSP Camera

- Built-in DSP (digital signal processing) circuitry
- 350 TV lines of horizontal resolution
- High sensitivity - minimum illumination of 0.3 lx
- Two types of backlight compensation
- 24 V AC and 12 V DC, dual power operation

VCC-3944 Color
NTSC

DIGITAL
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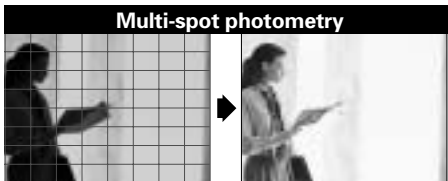
Shown with optional lens

VCC-3944

- Built in DSP (digital signal processing) circuitry
- 1/4" CCD image sensor with approx. 270,000 picture elements
- High sensitivity, minimum required illumination of 0.3 lx with F1.2 lens (Gain: HI)
- More than 350 TV lines of horizontal resolution
- Two types of backlight compensation

Multi-spot photometry (64-section) system

The screen is divided into 64 areas on which luminous intensity is measured separately to determine the lighting/backlight conditions of all objects. This makes it possible to apply optimum backlight compensation even for peripheral objects and moving objects.



Center-zone light measuring system

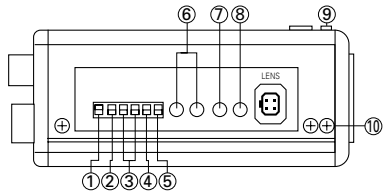
The brightness of the central area of the picture frame is measured, and by automatic adjustment of the lens aperture a clear and sharp image is possible even when the subject is backlit.

- Auto tracing white-balance / Manual white-balance
- Electronic iris (indoor use)
- 24 V AC and 12 V DC, dual power operation

| MODEL | VCC-3944 |
|------------------------------------|---|
| Scanning system | NTSC standard 525 lines, 30 frames/sec. |
| Image sensor | 1/4" (approx. 3.6 mm x 2.7 mm) interline transfer method CCD |
| Picture elements | Total: 537(H) x 505(V), Effective: 510(H) x 492(V) |
| Horizontal resolution | 350 TV lines |
| Minimum illumination | Approx. 0.3 lx (Gain: HI), Approx. 0.9 lx (Gain: NORM) with a F1.2 lens |
| Faceplate illumination | Approx. 0.05 lx (Gain: HI), Approx. 0.14 lx (Gain: NORM) with a F1.2 lens |
| Video output level | 1.0 V (p-p) (75 Ω, composite) |
| Video S/N ratio | More than 48 dB |
| Backlight compensation | ON / OFF — Slide SW (side) ON = Multi-spot photometry (64-section) / Center-zone light measuring system — Slide SW (side) (Activated when auto iris lens used) |
| White-balance | Auto tracing white-balance / Manual white-balance — Slide SW (side) |
| Color adjust. at manual | Red, Blue — VR (side) |
| Gain control | HI (High) / NORM (Normal) — Slide SW (side) |
| Light control | Optical auto iris lens / Electronic iris (indoor use) |
| Lens mount | CS / C mount (C mount: using C-mount adaptor, sold separately) |
| Flange back | 12.5 mm ±0.5 mm adjustment |
| Auto iris lens | DC |
| Auto iris output | DC: Drive coil (+, -), Brake (Damp) coil (+, -) |
| Lens iris level | LEVEL: L to H — VR (side) |
| Electronic iris | ON / OFF — Slide SW (side) |
| Electronic iris range | 0.9 lx to 45,000 lux (F1.2) |
| Synchronizing system | Internal sync. / Line lock — Slide SW (side) |
| V phase adjustment | LINE PHASE — VR (side) |
| Video signal | VIDEO OUT — BNC (rear) |
| Auto iris lens | LENS — 4-pin (side) |
| Sockets | 24 V AC, GND — 3-pin terminal (rear) 12 to 15 V DC, GND — 2-pin terminal (rear) |
| Power supply | |
| Environmental Operating conditions | Temperature: -10°C to 50°C [14°F to 122°F], Humidity: within 90% RH |
| Storage | Temperature: -20°C to 70°C [-4°F to 158°F], Humidity: within 70% RH |
| Power requirement | 24V AC, 60 Hz or 12 to 15 V DC |
| Power consumption (approx.) | 2.8 W (with auto iris lens), 2.1 W (without auto iris lens) |
| Camera mount | 1/4"-20UNC (top / bottom selectable) |
| Dimensions (approx.) | 56(W) x 45(H) x 99.5(D) mm [2.2(W) x 1.77(H) x 3.92(D) in.] (without camera & lens mounts) |
| Weight (approx.) | 280 g [9.9 oz.] (without lens) |

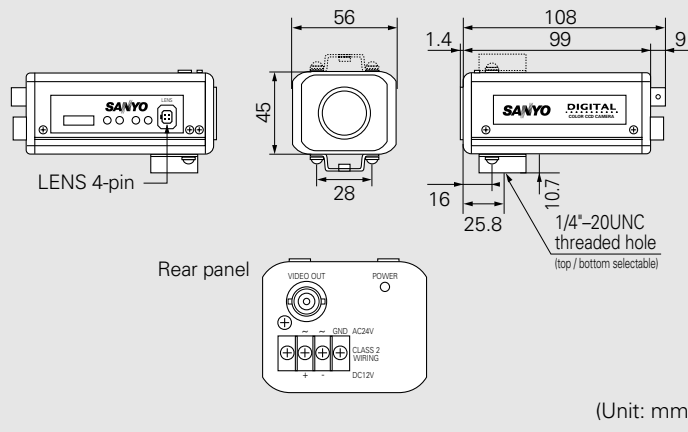
* Specifications subject to change without notice

Controls



- 1 Electronic Iris (EI) / Auto iris (AI) setting
- 2 Gain up setting (HI / NORM)
- 3 Backlight compensation (Multi-spot photometry (64-section) / Center-zone light measuring system)
- 4 White balance
- 5 Sync setting
- 6 White balance adjustment volume (R, B)
- 7 Line phase
- 8 Lens iris adjustment volume
- 9 Flange-back adjustment dial
- 10 Flange-back lock screw

VCC-3944



Video Imaging Systems Division of Sanyo Electric Co., Ltd. obtained Quality Management System ISO9001 and Environmental Management System ISO14001 certifications.

***Caution:** please consult the instruction manual to ensure safe and proper operation of the product.

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