

Think GAIA  
For Life and the Earth

**SANYO**

VCC-4794 E NTSC

**DIGITAL**  
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## 1/3" Color CCD DSP Day/Night Camera

- Super-high horizontal resolution of 540 TV lines (typical)
- High sensitivity — minimum illumination of 0.45 lx (F1.2, color mode) or 0.01 lx (F1.2 B/W mode)
- Two types of backlight compensation: Multi-spot and center-zone metering
- 24V AC and 12 to 15V DC dual power operation



**0.01 lux**  
High Sensitivity

Super-High Resolution  
**540-TVL**

Lenses sold separately.

# VCC-4794 E

## A two-in-one solution: a color camera during the day, a high-sensitivity B/W camera during the night

A color camera, which captures objects in vivid colors in daylight, becomes a high-sensitivity B/W camera during the night and provides tiny details even in dark corners. A day/night camera is a two-in-one solution.

### Main Features

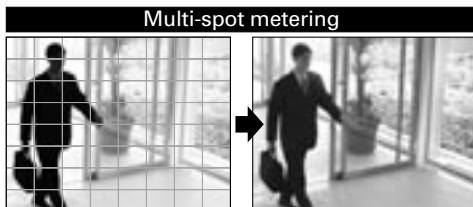
- 1/3-inch CCD image sensor with approx. 410,000 picture elements
- Super-high horizontal resolution of 540 TV lines (typical)
- Higher sensitivity and lower smear effect than that of the previous model:

Minimum illumination (F1.2 lens, 50IRE)	B/W mode	Color mode
VCC-4794 E	0.01 lx	0.45 lx
Previous model (VCC-4594)	0.03 lx	0.6 lx

- New, built-in DSP (digital signal processing) circuitry delivers superior color reproduction and reduced noise.
- The camera's sensitivity to exposed light allows it to automatically switch from color to B/W mode.
- Two types of backlight compensation selectable.

#### Multi-spot metering system:

Luminance is measured in 64 separate areas for optimum backlight compensation even for peripheral and moving objects; features selectable normal and high modes.



#### Center-zone metering system:

Luminance measured at center and automatic lens aperture adjustment enable a clear image even when backlit.

### Other Features

- Auto-tracing or manual white balance selectable (Slide SW)
- Internal synchronization, line-lock capability
- Built-in electronic iris for indoor use

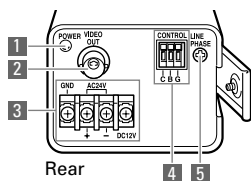
### Specifications

Model No.	VCC-4794 E
Scanning system	NTSC standard 525 lines, 60 fields/sec.
Image sensor	1/3" (approx. 4.8 mm x 3.6 mm) interline transfer method CCD
Number of pixels	Total: 811 (H) x 508 (V), Effective: 768 (H) x 494 (V)
Horizontal resolution	540 TV lines (typical)
Minimum illumination (approx.)	50IRE 0.01 lx (F1.2, Gain High, B/W mode) / 0.45 lx (F1.2, Gain High, color mode) 20IRE 0.004 lx (F1.2, Gain High, B/W mode) / 0.18 lx (F1.2, Gain High, color mode)
Video output	1.0 V (p-p)/75 ohms, composite
Video S/N ratio	More than 50 dB (AGC off)
Backlight compensation	ON / OFF — Slide SW (side) ON = Multi-spot metering (64-section) / Center-zone metering — (activated when auto iris lens used)
White balance	ATW / Manual — Slide SW (side)
Gain control	Normal / High — Slide SW (side)
Gamma	$\gamma = 0.45$
Light control	Optical auto iris lens / Electronic iris (indoor use)
Lens mount	CS mount (C mount: using C-mount adaptor supplied)
Flange back	12.5 mm $\pm 0.5$ mm adjustment
Auto iris lens	DC only
Auto iris output	DC: Drive coil (+, -), Brake (Damp) coil (+, -)
Lens iris level	LEVEL: L to H — VR (side)
Electronic iris range	0.6 lx to 30,000 lx (F1.2 lens: color mode), 0.9 lx to 45,000 lx (F1.4 lens: color mode)
Aperture compensation	Sharp / Normal
Synchronizing system	Internal sync / Line-lock
Day/Night mode	Auto (High/Low), Manual (at control terminal)
Terminals	Video signal VIDEO OUT — BNC Auto iris lens LENS — 4-pin (side) Power supply 24V AC, GND — 3-pin terminal (rear) 12V DC, NC — 3-pin terminal (rear) Control B, C, G — 3-pin terminal (rear)
Environmental conditions	Operating Temperature: -10 to +50°C (+14 to +122°F), Humidity: within 90% RH Storage Temperature: -20 to +70°C (-4 to +158°F), Humidity: within 70% RH
Power supply	12 to 15V DC / 24V AC $\pm 10\%$ , 60Hz
Power consumption (approx.)	3.7 W
Camera mount	1/4" - 20 UNC (top / bottom selectable)
Dimensions (approx.)*	67 (W) x 54 (H) x 128 (D) mm [2.64 (W) x 2.13 (H) x 6.04 (D) in]
Weight (approx.)	400 g (without lens)

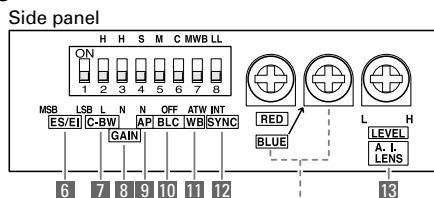
\* Excluding protrusions

NOTE: Specifications subject to change without notice.

### Controls and Dimensions

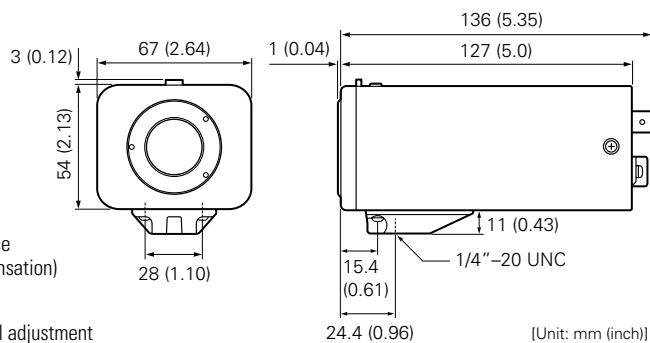


- 1 Power indicator
- 2 Video output connector
- 3 24V AC/12V DC input terminals
- 4 Control [C, B, G]\* (3 pin)
- 5 Line phase dial



- 6 EI setting (for indoor use)
- 7 Day/Night function switchover point
- 8 Auto gain control (AGC)
- 9 Aperture compensation
- 10 Backlight compensation
- 11 White balance (color compensation)
- 12 Sync setting
- 13 Lens iris level adjustment

\*Color, black and white, and ground terminals.



[Unit: mm (inch)]

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



DI Company of SANYO Electric Co., Ltd. obtained Quality Management System ISO 9001 and Environmental Management System ISO 14001 certifications.

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