

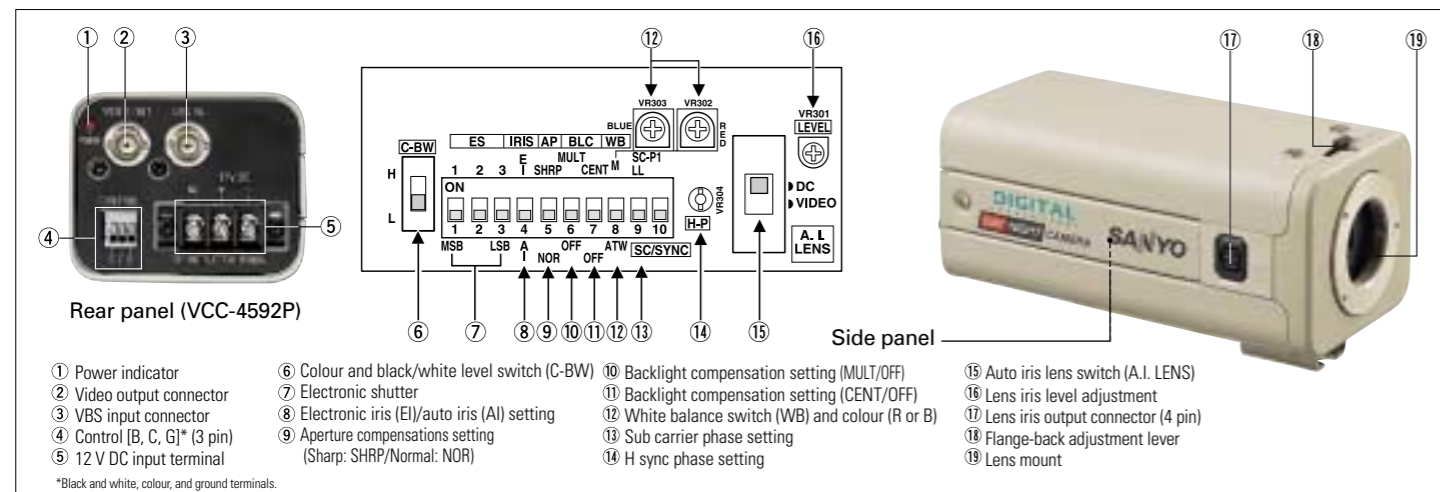
# VCC-4592P/4594P (PAL)

## Specifications

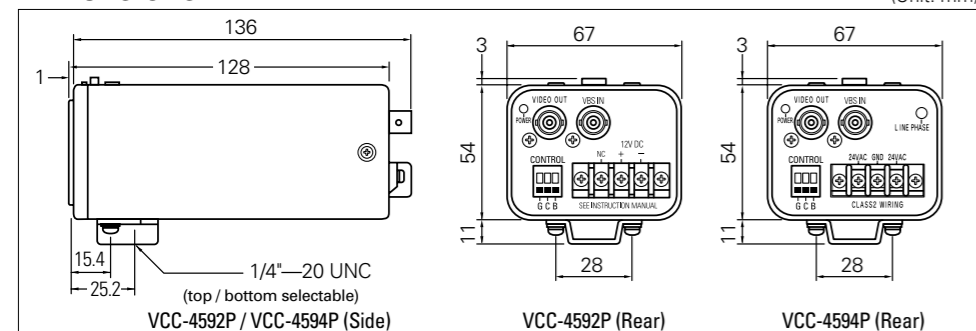
Model	VCC-4592P	VCC-4594P
Scanning system	PAL standard 625 lines, 25 frames/sec	
Image sensor	1/3" (approx. 4.8 x 3.6 mm) interline transfer method CCD	
Picture elements	Total: 795 (H) x 596 (V), Effective: 752 (H) x 582 (V)	
Horizontal resolution	520 TV lines	
Minimum illumination	0.03 lx (F1.2 lens, B/W mode, 50 IRE), 0.6 lx (F1.2 lens, colour mode, 50 IRE)	
Video output level	1.0 V(p-p) (75 ohms composite)	
Video S/N ratio	More than 48 dB	
Backlight compensation	Automatic or manual, intelligent backlight compensation (BLC automatically applied to 64 zones)	
White balance	TTL auto tracing white balance / manual — slide SW (side)	
Colour adjust at manual	R, B — VR (side)	
Gain control	Automatic	
Electronic shutter	8-mode: 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec — DIP 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 / VIDEO — slide SW (side)	
Auto iris output	DC drive coil (+, -), brake dump coil (+, -) Video: +12 V DC (max. 50 mA), video output (high-impedance)	
Lens iris level	Level: L - H — VR (side)	
Electronic iris	ON / OFF — slide SW (side)	
Electronic iris range	0.6 lx to 35,000 lx (F 1.2 lens: colour mode), 1.0 lx to 50,000 lx (F 1.4 lens: colour mode)	
Synchronizing system	Internal sync / external sync (automatic switching)	Internal sync / line lock / external sync (automatic switching)
V phase adjustment		LINE PHASE — VR (rear)
Socket	Video signal	VIDEO OUT — BNC (rear)
	External sync	VBS IN — BNC (rear)
	Auto iris lens	Lens — 4 pin (side)
	Power supply	12 V DC, NC — 3 pin terminal (rear) / 24 V AC, GND — 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 requirement	12-15 V DC	24 V AC / 50 Hz
Power consumption (approx.)	3.3 W (with auto iris lens)	4.1 W (with auto iris lens)
Camera mount	1/4" — 20 UNC (top / bottom selectable)	
Dimensions (approx.)	67 x 54 x 128 mm	
Weight (approx.)	450 g	

Note: Specifications subject to change without notice.

## Controls



## Dimensions



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

# SANYO

## Day/Night CCD Camera

- Super high-resolution of 520 horizontal TV lines
- Digital signal processing for sharper colour images
- Intelligent backlight compensation for clearer views of off-centre/moving objects
- High performance in minimal illumination with enhanced high sensitivity and anti-smear characteristics

## 520 Horizontal TV lines

## VCC-4592P (PAL) VCC-4594P (PAL)

## DIGITAL

One unit for use  
**DAY and NIGHT**



# SANYO

SANYO Electric Co., Ltd.  
Video Imaging Systems Division  
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SMS-008





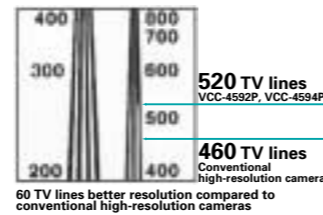
# 520

## Horizontal TV lines

### The super high-resolution camera

With four innovations developed by SANYO, the VCC-4592P / VCC4594P are 1/3" sized 1-CCD cameras achieving horizontal resolution of 520 TV lines.

This unbelievably high resolution opens a new era for all security systems.



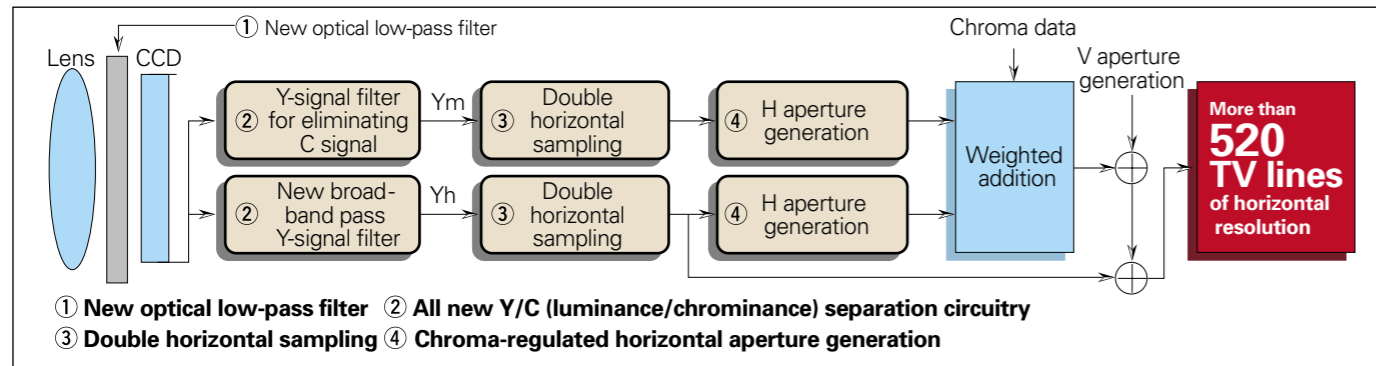
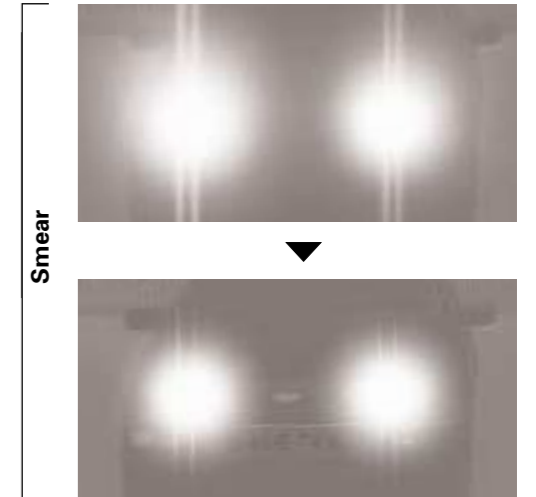
# 0.03 lx

## Minimum required illumination

**Higher sensitivity and lower smear effect than that of previous models**  
Utilization of an enhanced high-sensitivity CCD sensor (an improvement of 7 dB) enables superior surveillance capabilities under conditions of minimal illumination as low as 0.03 lx (compared to that of 0.07 lx for previous models). Added to this are anti-smear characteristics that have been cut by 20 dB to drastically reduce smear effects, such as those caused by headlights during shooting at night, and augment the effectiveness of nighttime image production.

#### Comparison of VCC-4592P / VCC-4594P with prior SANYO models

Minimum illumination (F1.2 lens)	B/W mode	Colour mode
VCC-4592P / VCC-4594P	0.03 lx	0.6 lx
Previous models	0.07 lx	1.4 lx



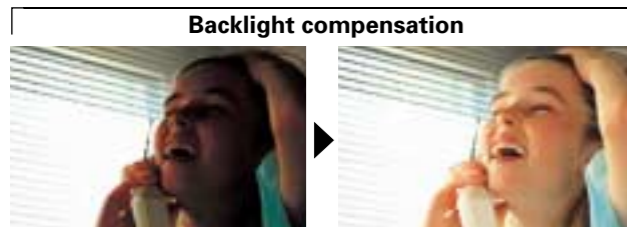
### The new DSP circuitry further improves picture quality

#### A clear view of off-centre objects Intelligent backlight compensation

The screen is divided into 64 small areas in which luminous intensity is measured separately to determine the lighting conditions of all objects within the frame. This new method provides a clear view of off-centre and moving objects that was not possible with conventional backlight compensation.

#### Superior colour reproduction and aperture compensation

The new DSP (digital signal processing) circuitry comes with the latest algorithm to reproduce natural colours. At the same time, digital processing of the video signal reduces colour smudges and produces sharp, crisp pictures.

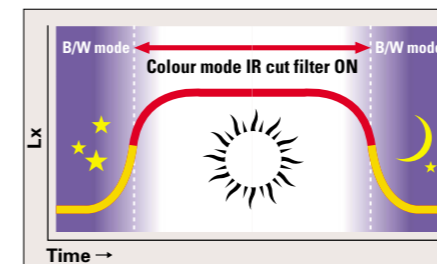


# DAY / NIGHT

## Both day and night use in the same camera

#### Proprietary auto-switching infrared cut filter

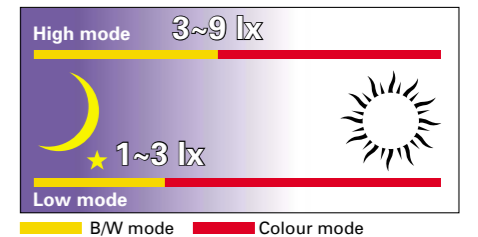
As the camera senses the amount of light in the viewing area, it automatically turns the IR CUT FILTER on and off as required. As more precise colour reproduction is essential in the colour operation mode, the filter is turned on. In the B/W mode, clear, bright images (to a minimum required illumination of 0.03 lx) are produced by switching the filter



#### Intelligent 2-mode switching for colour to B/W as well as manual switching

The camera's sensitivity to exposed light allows it to automatically switch

from colour to B/W mode. And the user is also able to easily switch modes as required for specific applications. Mode switching can instantly be accomplished using the two push locking switches which provide manual selection over mode selection and auto operation. Full control is also available for setting the brightness range from 1-3 or 3-9 lx as the switchover point for high (colour) to low (B/W) mode. Effectively engineering all the capabilities of two CCD cameras into one, the PAL system VCC-4592P / VCC-4594P are ideal 'all-in-one' cost-effective solutions for all surveillance needs.



#### Built-in electronic shutter

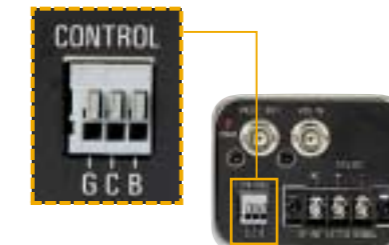
A high-speed electronic shutter that is internally switchable for eight modes using a DIP switch allows adjustment increments between 1/50th to 1/10,000th of a second.

#### Internal and external synchronization capability

As well as its internal sync system, the VCC-4592P is equipped with a BNC connector that accepts an external composite video signal input. The VCC-4594P uses a line lock system in addition to these.

#### Other features

- Built-in electronic iris for indoor use
- Usable with DC and video auto iris lenses
- CS type lens mount
- Quick operation and low power consumption



Note: Images produced by the camera may differ slightly from those appearing here.