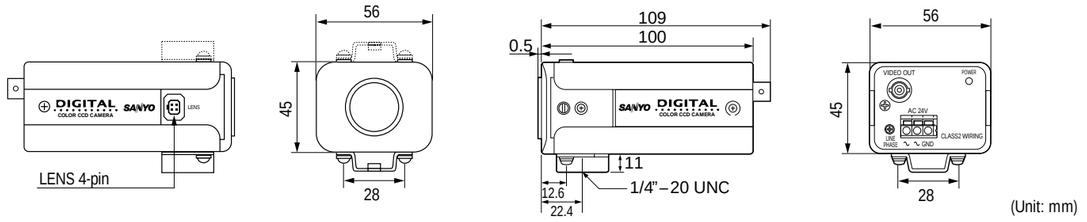
VCC-6594 (NTSC)

Specifications

Model		VCC-6594
Scanning system		NTSC standard 525 lines, 30 frames/sec., 2:1 interlace
Image sensor		Interline Transfer CCD, 1/3" [4.8 x 3.6 mm]
Picture elements		Total: 811 (H) x 508 (V), Effective: 768 (H) x 494 (V)
Horizontal resolution		520 TV lines
Minimum illumination		Approx. 0.3 lux (Gain: HI mode) / Approx. 0.6 lux (Gain: NORM mode) with F 1.2 lens
Video output level		1.0 V p-p (75 ohms, composite)
Video S/N ratio		More than 48 dB
Backlight compensation		Multi-zone (MULT) / Center-zone (CENT) / OFF — DIP SW (side) (Active when using auto-iris lens)
White balance		Auto tracking white (ATW) balance / Manual (MANU) — DIP SW (side)
Auto gain control		Normal (NORM) / High (HI) — DIP SW (side)
Aperture correction		Normal (NORM) / Sharp (SHRP) — DIP SW (side)
Electronic shutter speeds		7-Modes: 1/60, 1/100, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 sec — DIP SW (side)
Light control		Optical auto-iris lens / Electronic iris (indoor use)
Lens mount		CS mount (or C mount with 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 (1.0 V p-p, high impedance)
Lens iris level		Level: L - H — VR (side)
Electronic iris		ON (EI) / OFF (AI), 1/60 to 1/100,000 sec — DIP SW (side)
Electronic iris range		0.6 lux to 50,000 lux (F 1.2 lens)
Synchronizing system		Internal sync / Line-lock (Manual switching)
V phase adjustment		LINE PHASE — VR (rear)
Sockets	Video signal	VIDEO OUT — BNC (rear)
	Auto-iris lens	LENS — 4-pin (side)
	Power supply	24 V AC — Pushbutton terminal x 3 (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		24 V AC
Power compsumption (approx.)		2.8 W (with auto-iris lens)
Camera mount		1/4" x 20 UNC (top / bottom selectable)
Dimensions (approx.)		56 (W) x 45 (H) x 99.5 (D) mm [2.2 (W) x 1.8 (H) x 3.9 (D) in]
Weight (approx.)		310 g [10.9 oz] (without lens)

Note: Specifications subject to change without notice.

Dimensions



Compatible system devices supporting high-resolution of over 520 TV lines

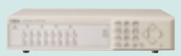
Implement SANYO's lineup of 520 TV lines of horizontal resolution compatible products, featuring the VCC-6594, and enable the establishment of higher precision surveillance systems. (More models to be introduced soon.)

Cameras — More than 520 TV lines of horizontal resolution

1/3" Color CCD DSP High-Resolution Day/Night Camera
VCC-4594

1/3" Color CCD DSP High-Resolution Camera
VCC-6574

Multiplexers



16-Channel Digital Transport Multiplexer
MPX-CD163

9-Channel Digital Transport Multiplexer
MPX-CD93

DVRs — More than 520 TV lines of horizontal resolution

Digital Video Recorder
DSR-3000

Digital Real Time VCR
DTL-4800

Monitors

13" Color Video Monitor
VMC-8613 — More than 750 TV lines of horizontal resolution

18" Color Video Monitor
VMC-8618 — More than 800 TV lines of horizontal resolution

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

Distributed by:

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Video Imaging Systems Division
www.sanyosecurity.com

SMS-025

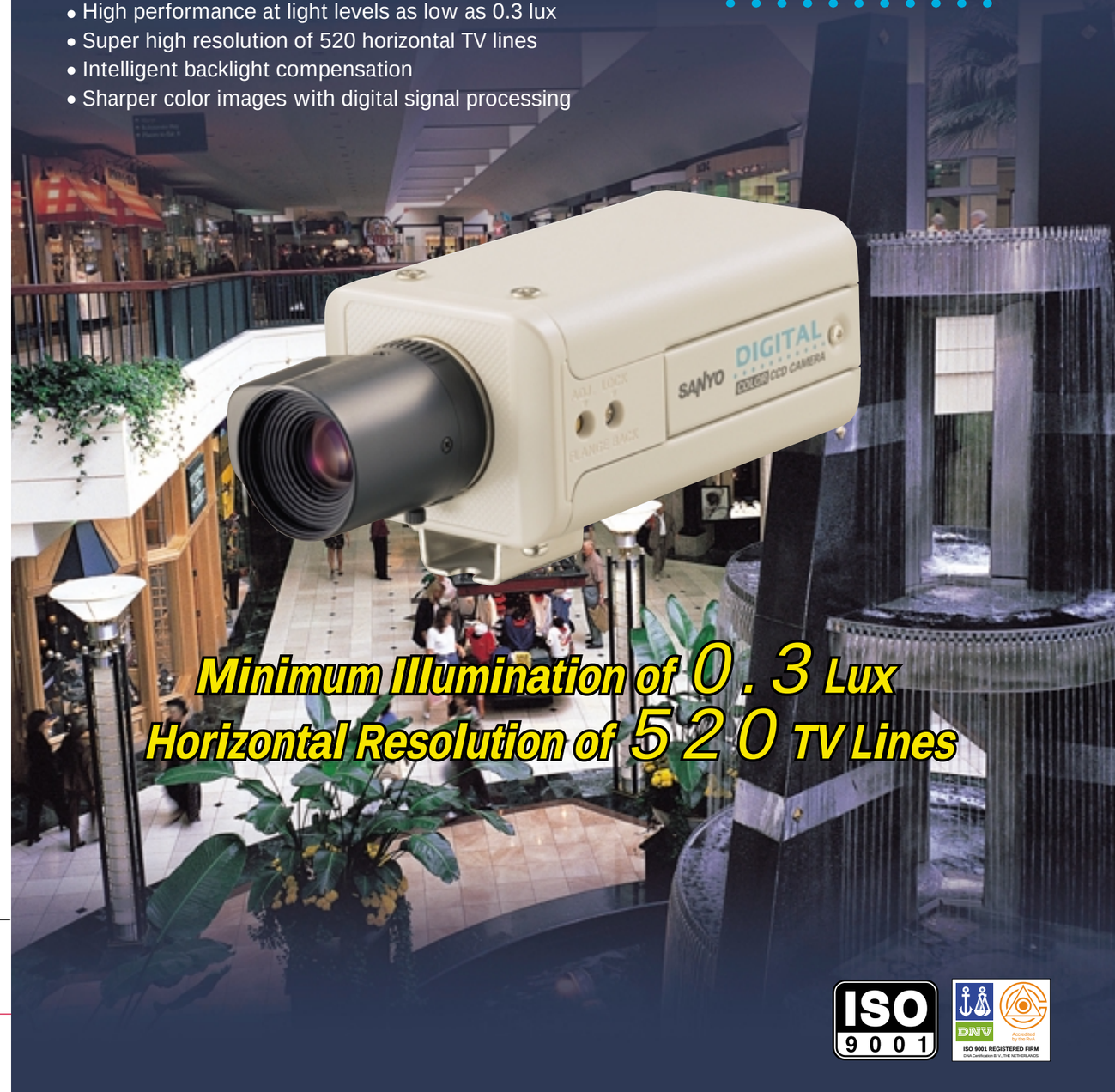
SANYO

High Sensitivity / Resolution 1/3"-CCD DSP Color Camera

VCC-6594 (NTSC)

DIGITAL

- High performance at light levels as low as 0.3 lux
- Super high resolution of 520 horizontal TV lines
- Intelligent backlight compensation
- Sharper color images with digital signal processing

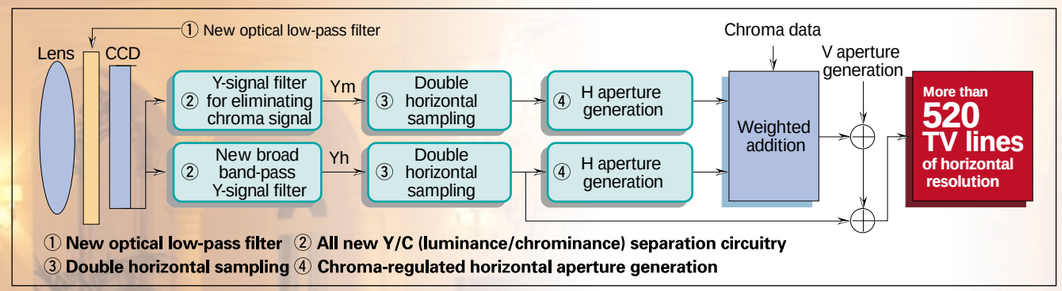


Super High-resolution Imaging

520
Horizontal TV Lines

The super high-resolution camera

The innovative imaging circuitry of the VCC- 6594 releases the capability for high-resolution image capture applications. The achievement of 520 horizontal TV lines—as much as 60 lines more than conventional high-resolution cameras—made a reality via innovative video-signal processing know-how.



High Sensitivity for Low-light-level Applications

0.3
Lux of Light

Enhanced CCD Yields Color Imaging at a Minimum of 0.3 Lux of Light

The adoption of a precision-designed color CCD broadens the scope of possible applications for color CCTV-imaging requirements. The new CCD allows for image capture under low-light-level conditions down to 0.3 lux with an F 1.2 lens.

VCC-6594 compared with prior top SANYO models

Minimum illumination (F 1.2 lens)	High gain mode
VCC-6594	0.3 lux
Prior top models	1.0 lux

Clearer, Sharper Color Images

New Digital Signal Processing Circuitry

Backlight compensation for clear viewing of off-center/moving objects

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-center and moving objects that was not possible with conventional backlight compensation.

Backlight compensation

Greater freedom from smearing

Anti-smear characteristics have been enhanced drastically to reduce smear effects such as those caused by headlights during shooting in dark environments by 20 dB and augment the effectiveness of low-light-level image reproduction.

Smearing

Exceptional color reproduction

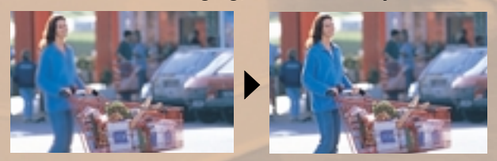
New DSP (digital signal processing) circuitry utilizes a state-of-the-art algorithm that separates the luminance signal (Y) and the chroma signal (C) more precisely enabling the camera to reproduce truer, more natural colors than before.

Color reproduction

Sharper images & reduced color smudging

Coupled with the functioning of the algorithm is digital processing of the video signal that reduces color smudges and produces sharper, crisper pictures.

Reduced smudging, enhanced sharpness



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