



Sanyo VCB-3444 Service Manual

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SERVICE MANUAL

B/W CCD Camera

SPECIFICATIONS

Camera

Scanning system : CCIR standard (625 TV lines, 25 frames/sec.)(VCB-3444P)

EIA standard (525 TV lines, 30 frames/sec.)(VCB-3444)

Interlace : 2:1 interlace

Image device : 1/3 inch solid state image device CCD

Picture elements : 542 (Horizontal) x 584 (Vertical) (VCB-3444P)

542 (Horizontal) x 494 (Vertical) (VCB-3444)

Effective picture elements : 512 (Horizontal) x 582 (Vertical) (VCB-3444P)

512 (Horizontal) x 492 (Vertical) (VCB-3444)

Synchronizing system : Internal sync (INT), Line lock (LL) : manually switchable

Resolution : 400 TV lines horizontally, 400 TV lines vertically (VCB-3444P)

400 TV lines horizontally, 350 TV lines vertically (VCB-3444)

Video output level : 1.0 Vp-p/75 Ω , composite

Video S/N ratio : More than 50 dB
 Minimum required illumination : Approx. 0.05 lux with a F 1.2 lens,
 (incandescent lighting)
 Backlight compensation : Manual ON/OFF switching, zone light measuring system
 (Active when using an auto-iris lens)
 Iris function : Manual ON (EI)/OFF (AI) switching
 High speed electronic shutter : 8 speeds, selectable by switches:
 Electronic iris range : 0.07 lux to 42,000 lux (F1.4, lens)
 0.05 lux to 30,000 lux (F1.2, lens)
 Flange-back : 12.5 mm ± 0.8 mm
 AGC : Manual ON/OFF switching
 Gamma correction : $\gamma = 0.45$
 Lens mount : CS mount
 Environmental conditions : Temperature: -10 °C ~ + 50 °C
 Humidity: less than 90 % (no condensation)
 Power supply : 24 V AC, 50Hz (VCB-3444P) / 60Hz (VCB-3444)
 Power consumption : 4.0W (with auto iris lens)
 3.7W (without auto iris lens)
 Weight : Approx. 560 g (without lens)

The components designated by a symbol (!) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List. Do not deviate from the resistance, wattage, and voltage ratings shown.

- NOTE : 1. Parts order must contain model number, part number, and description.
 2. Substitute parts may be supplied as the service parts.
 3. N. S. P. : Not available as service parts.

Design and specification are subject to change without notice.

L73Q4/US,XE

approx. 0.07 lux with a F 1.4 lens
 (1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000,
 1/4000, 1/10000 sec.):(VCB-3444P)
 (1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000,
 1/4000, 1/10000 sec.):(VCB-3444)

PRODUCT SAFETY NOTICE

FILE NO.

VCB-3444

(Product Code : 117 074 01)

(U.S.A.)

(Canada)

(Korea)

(Taiwan)

VCB-3444P

(Product Code : 117 074 04)

(Europe)

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SCHEMATIC DIAGRAM

REFERENCE No. SM5310331

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[Security Camera Sanyo VCB-3444 Service Manual](#)

(16 pages)

[Security Camera Sanyo VCB-3454 Specifications](#)

1/3" b/w ccd high performance camera (2 pages)

[Security Camera Sanyo VCB-3424 Instruction Manual](#)

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B/w ccd camera (15 pages)

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B/w (24 pages)

[Security Camera Sanyo VCB-3512P Instruction Manual](#)

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Summary of Contents for Sanyo VCB-3444

[Page 1: Specifications](#)

Environmental conditions : Temperature: -10 °C ~ + 50 °C Humidity: less than 90 % (no condensation) 4. PARTS LIST6 Power supply : 24 V AC, 50Hz (VCB-3444P) / 60Hz (VCB-3444) SCHEMATIC DIAGRAM Power consumption : 4.0W (with auto iris lens) 3.7W (without auto iris lens)

[Page 2: Disassembly](#)

1. DISASSEMBLY 1. Remove the four screws and pull out the top cover 4. Remove the four screws and pull out the front cover and FPC on sensor board 3. Remove the four screws and pull

out the rear cover 12.

[Page 3: Board Location](#)

2. BOARD LOCATION PHASE CN201 VR400 VIDEO OUT SHUTTER SPEED IRIS UNIT SW401 SW400 J400 SW200 VR200 LED400 POWER ON LED CE6310-2 BOARD CE6310-4 BOARD CN502 VR502 PLLN VR501 VSUB C587 SIGNAL PROCESS & TIMING UNIT VR500 VAGC CE6310-5 BOARD CE6310-5 BOARD CE6310-4 BOARD (CONTROL)

[Page 4: Adjustment](#)

3. ADJUSTMENT 3-3. VSUB & VRG VOLTAGE ADJUSTMENT 3-1. ADJUSTMENT PREPARATION Adjustment location: VR501 (VSUB, 6310-5) 1. Use the 5,100K viewer for the subject. VR502 (VRG, 6310-5) 2. Set the ITE gray scale chart II ($\gamma = 0.45$) to the viewer. Measuring location: T3 (6310-5) 3.

[Page 5](#) Adjusting method: 1. Connect the camera to a 24V AC/60 Hz power source at VCB-3444 or 24V AC/50 Hz power source at VCB-3444P. 2. The HOT (signal) side and COLD (GND) side of the oscillo scope probe connect to the middle and the left side of the 24V AC terminals respectively.

[Page 6: Parts List](#)

645 051 0298 FLEXILE CABLE 645 050 9308 GND WIRE SCREW M3X4 CABINET & CHASSIS PARTS 645 052 0105 SENSOR PCB ASSY (VCB-3444 ONLY) 645 050 9193 FRONT COVER 645 052 0099 SENSOR PCB ASSY (VCB-3444P ONLY) 645 050 9209...

[Page 7](#) 645 050 9803 CHIP RESISTOR 1K J (CCD) R235 645 050 9988 CHIP RESISTOR 4.7K J U100 645 052 0174 CCD MN3716AT (VCB-3444 ONLY) (INTEGRATED CIRCUITS) U100 645 050 9377 CCD MN3726AT (VCB-3444P ONLY) U200 645 050 9353 IC NJM3414AM...

[Page 8](#) CHIP RESISTOR 510 J C573 645 051 0090 CERAMIC 0.1U Z 25V R402 645 052 0242 CHIP RESISTOR 12K J (VCB-3444 ONLY) C574 645 051 0090 CERAMIC 0.1U Z 25V R402 645 050 9810 CHIP RESISTOR 10K J D453 (VCB-3444P ONLY)

[Page 9](#) 645 051 0083 CHIP RESISTOR 3.16K F (CRYSTAL DEVICE) R532 645 050 9896 CHIP RESISTOR 24K J X500 645 052 0211 CRYSTAL 19.0699MHZ (VCB-3444 ONLY) R533 645 050 9933 CHIP RESISTOR 33K J X500 645 050 9629 CRYSTAL 18.9375MHZ (VCB-3444P ONLY) R534 645 051 0014 CHIP RESISTOR 6.8K J...

[Page 10](#) SANYO Electric Co., Ltd. Osaka, Japan Oct./'01...

[Page 11](#) GND 2...

[Page 13](#) +10VA...

[Page 14](#) OSUB VM24 VM13 VSUB VCC1 AGCMAX AGCLV BACK L GND2 AGCDET R OUT VCC4 VREF IRIS DL C GND4 AP G WIND P AP FT CENT AP AMPO CLP IN IR FT HCPL OSLO OSLI PLLP PLLN DETO EXIN VRST CTRL SPSW OSCI...

This manual is also suitable for:

Vcb-3444p117 074 01117 074 04