





## Sanyo VCC-4594P Service Manual

Color ccd camera

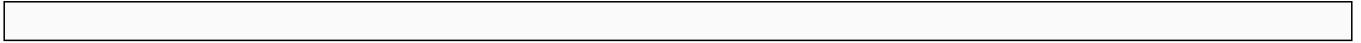


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COLOR CCD Camera

**VCC-4592P**

**VCC-4594P**

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PSECIFICATIONS, PRODUCT SAFETY NOTICE

BOARD LOCATION

DISASSEMBLY

ADJUSTMENT

PARTS LIST



## DIAGRAMS

2.

PRODUCT SAFETY NOTICE

OVERALL WIRING

OVERALL BLOCK DIAGRAMS, CA-1 CIRCUIT WAVEFORMS

CIRCUIT DIAGRAMS (CA-1)

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3.

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## Related Manuals for Sanyo VCC-4594P

### [Color Camera Sanyo VCC-4594P Instruction Manual](#)

Color ccd camera (19 pages)

### [Security Camera Sanyo VCC-4594 Instruction Manual](#)

Day/night color ccd camera (20 pages)

### [Security Camera Sanyo VCC-4115P Instruction Manual](#)

Colour ccd camera (16 pages)

### [Security Camera Sanyo VCC-4374 Instruction Manual](#)

Color ccd camera (19 pages)

### [Security Camera Sanyo VCC-4795P Brochure](#)

Sanyo security camera product brochure (19 pages)

### [Security Camera Sanyo VCC-4324 Instruction Manual](#)

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### [Security Camera Sanyo VCC-4312P Service Manual](#)

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### [Security Camera Sanyo VCC-4372P Instruction Manual](#)

Colour ccd camera (17 pages)

### [Security Camera Sanyo VCC-4324P Instruction Manual](#)

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### [Security Camera Sanyo VCC-4110P Instruction Manual](#)

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### [Security Camera Sanyo VCC-4374P Instruction Manual](#)

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### [Security Camera Sanyo VCC-MC600P, VCC-MC600 Manual](#)

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### [Security Camera Sanyo VCC-HD2100 - Full HD 1080p Network Camera](#)

### [Summary Manual](#)

Megapixel camera (87 pages)

### [Security Camera Sanyo VCC-HD2100 User Manual](#)

Sanyo vcc-hd2100: user guide (118 pages)

### [Security Camera Sanyo VCC-HD5400 User Manual](#)

Sanyo vcc-hd5400: user guide (145 pages)

## Summary of Contents for Sanyo VCC-4594P

[Page 1](#) ADJUSTMENT PARTS LIST DIAGRAMS PRODUCT SAFETY NOTICE OVERALL WIRING  
OVAERALL BLOCK DIAGRAMS, CA-1 CIRCUIT WAVEFORMS CIRCUIT DIAGRAMS (CA-1) IC BLOCK  
DIAGRAMS, CA-2 CIRCUIT WAVEFORMS CIRCUIT DIAGRAMS (CA-2) CIRCUIT DIAGRAMS (CA-3),  
CA-3 CIRCUIT WAVEFORM CIRCUIT DIAGRAMS (CA-4) P.W.B. (VCC-4592P) P.W.B. (VCC-4594P)

### [Page 2: Service Manual](#)

Picture elements : 795 (Horizontal) x 596 (Vertical) (Product Code : 117 109 04) Effective  
picture elements : 752 (Horizontal) x 582 (Vertical) Synchronizing system : Internal sync,  
External sync, Line lock (VCC-4594P only) (South East Asia) Resolution : 520 TV lines

horizontally, 400 TV lines vertically (Europe) Video output level : 1.0 Vp-p/75...

### [Page 3: Disassembly](#)

1. DISASSEMBLY 1. Three screws for VCC-4594P 3. Mounting 2. Two screws 4. Screw 5. Cover side 6. Four screws 7. Connector 15. CA-3 board 14. Two screws 8. Three screws 11. FPC 10. Two connectors 13. Dec side 12. Four screws 13.

### [Page 4: Board Location](#)

2. BOARD LOCATION VR304 S3001 VR301 VR303 VIDEO VR302 S3002 VCC-4952P CT232 CA-3 board (Side A) VR201 TP221 TP401 TP232 CT221 TP405 TP200 VR401 VR271 (Side A) CA-2 board (Side B) CA-2 board CA-4 board (Side B) CA-4 board CA-3 board CA-1 board -...

### [Page 5: Adjustment](#)

(ITE gray scale chart/ = 0.45). 8. Apply 24 V AC to the 24 V AC terminal on the camera. ROM CORRECTION (for VCC-4594P) FILE NAME Apply 12 V DC to the 12 V DC terminal on the camera.

[Page 6](#) Subject: No designation Adjusting method: 1. Adjust with CT232 to 8.0 0.2 V. 3-7. AGC Level ADJUSTMENT 100% Adjustment location: Computer screen Measuring location: VIDEO OUT Measuring equipment: Oscilloscope Subject: Gray scale chart Adjusting method: 1. Display the grayscale chart on full screen. 2.

[Page 7](#) 10 mVp-p VIDEO  $0 \pm 0.2 \mu\text{sec}$  VIDEO OUTPUT 3-11. Line Phase Adjustment (for VCC-4594P) Adjustment location: S3002-9 (CA-3), VR271 (CA-4) 3-13. CCD White Point Defect Detect Adjustment Measuring location: VIDEO OUT, 24 V AC/GND terminals Measuring location: VIDEO OUT...

[Page 8](#) 3-14. Flange-back Adjustment 3-15. External Sync Adjustment (VBS) (for VCC-4592P) Adjustment location: FLANGE BACK ADJ. screw Measuring location: Monitor display Adjusting method: Measuring equipment: Monitor display 1. If the signals are not synchronized, change the sub-carrier Subject: Siemens star chart (SC-P1) switches as follows.

### [Page 9: Parts List](#)

411 170 4604 SCR TPG PAN PCS 1.4X3 613 195 9989 COMPL PWB,CA-4,VCC-4592P ONLY 613 184 1444 HOLDER,FILTER 613 196 0039 COMPL PWB,CA-4,VCC-4594P ONLY 645 047 9656 OPTICAL FILTER 411 045 2407 SCR PAN+SW 3X10 645 031 7811 OPTICAL,DUMMY GLASS...

[Page 10](#) Q2301 405 092 4101 TR 2SC4081-R C1102 403 164 0204 CERAMIC 0.1U Z 25V Q2302 405 135 9407 TR DTA114EUA,VCC-4594P ONLY C1108 403 175 4109 ELECT 22U M 16V Q2305 405 135 9407 TR DTA114EUA,VCC-4594P ONLY C1109 403 175 0705...

[Page 11](#) D2302 407 206 5400 ZENER DIODE UDZS8.2B C2211 403 315 5706 CERAMIC 0.47U Z 10V D2303 407 174 1909 VARACTOR DI HVU200A4TRV,VCC-4594P ONLY C2212 403 113 3805 CERAMIC 1000P K 50V D2304 407 174 1909 VARACTOR DI HVU200A4TRV C2213 403 164 0204 CERAMIC 0.1U Z 25V...

[Page 12](#) MT-GALZE 3.3K JA 1/16W VCC-4594P ONLY R2112 401 105 1501 MT-GLAZE 1.5K JA 1/16W R2319 401 105 4700 MT-GLAZE 39K JA 1/16W,VCC-4594P ONLY R2113 401 105 5400 MT-GLAZE 47K JA 1/16W R2320 401 105 0702 MT-GLAZE 100K JA 1/16W, R2114...

[Page 13](#) 0.1U Z 25V D4010 407 066 8702 DIODE SB10-05PCP C3203 403 164 0204 CERAMIC 0.1U Z 25V D4101 407 173 1108 PHOTO COUPLE TLP181-GB,VCC-4594P ONLY C3301 403 164 0204 CERAMIC 0.1U Z 25V D4121 407 066 8702 DIODE SB10-05PCP,VCC-4592P ONLY (RESISTORS) D4122...

[Page 14](#) POLYESTER 0.01U K 250V,VCC-4594P ONLY R4017 401 105 2805 MT-GLAZE 2.2K JA 1/16W,VCC-4592P ONLY C4004 403 190 5402 ELECT 100U M 50V,VCC-4594P ONLY R4018 401 105 7909 MT-GLAZE 0.000 ZA 1/16W, C4004 403 217 1103 ELECT 220U M 35V,VCC-4592P ONLY...

[Page 15](#) CORE,FERRITE Core A ) 9301 645 030 7294 CORE,FERRITE (Core B) 9001 613 197 0038 CARTON CASE INNER,VCC-4592P ONLY 9001 613 197 0281 CARTON CASE INNER,VCC-4594P ONLY 9002 613 184 1659 CUSHION BAG Core A (645 030 8055) Core B (645

[Page 16](#) PRODUCT SAFETY NOTICE PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A UNIT COMPONENTS INDICATED BY THE SYMBOL IN THIS SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE ATTACHED PARTS LIST BE USED TO COMPONENTS REPLACE DESIGNATED BY THE SYMBOL...

[Page 17](#) 1. OVERALL WIRING, BLOCK DIAGRAM & CIRCUIT DIAGRAMS OVERALL WIRING...

[Page 18](#) OVERALL CIRCUIT BLOCK DIAGRAM CA-1 CIRCUIT WAVEFORMS TEST TEST WAVEFORM WAVEFORM LOCATION LOCATION IC101-1 IC101-4 5V/div 5V/div 20µs/div 20µs/div IC101-2 IC101-13 5V/div 2V/div 50ns/div 20µs/div IC101-3 IC101-14,15,16 5V/div 2V/div 20µs/div 50ns/div H1,H2, LH1 WF-CA1-L53X4US...

[Page 19](#) CA-1 CIRCUIT...

[Page 20](#) IC101 BLOCK DIAGRAM (ICX259) CA-2 CIRCUIT WAVEFORMS IC201 BLOCK DIAGRAM (AK5492) MONOUT TEST TEST BANDGAP WAVEFORM WAVEFORM CLPCAP DC CLAMP VREF CLPCAP LOCATION LOCATION VCOM CCDCLP IC201-23,24 IC211-47 ROUGH FINE REF IN 10BIT DO0..DO9 CCDIN 1V/div 1V/div (6BIT) ADCLP (2BIT) 50ns/div (2BIT) AVDD1 5ms/div...

[Page 21](#) CA-2 CIRCUIT NOTES: : Common parts for VCC-4592P and VCC-4594P. The parts marked are VCC-4594P ONLY. The parts marked are VCC-4592P ONLY.

[Page 22](#) CA-2 CIRCUIT...

[Page 23](#) CA-2 CIRCUIT...

[Page 24](#) CA-3 CIRCUIT CA-3 CIRCUIT WAVEFORMS TEST WAVEFORM LOCATION S3001-4 0.5V/div 2ms/div (VIDEO TYPE LENS) WF-CA3-L53X4US...

[Page 25](#) CA-4 CIRCUIT [VCC-4592P ONLY]...

[Page 26](#) CA-4 CIRCUIT [VCC-4594P ONLY]...

[Page 27](#) 3. PRINTED WIRING BOARD (P.W.B.) [VCC-4592P ONLY] CA-1 BOARD (SIDE A) [VCC-4592P ONLY] CA-1 BOARD (SIDE B) [VCC-4592P ONLY] CA-2 BOARD (SIDE A) [VCC-4592P ONLY] CA-2 BOARD (SIDE B) [VCC-4592P ONLY]...

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[Page 29](#) 4. PRINTED WIRING BOARD (P.W.B.) [VCC-4594P ONLY] CA-1 BOARD (SIDE A) [VCC-4594P ONLY] CA-1 BOARD (SIDE B) [VCC-4594P ONLY] CA-2 BOARD (SIDE A) [VCC-4594P ONLY] CA-2 BOARD (SIDE B) [VCC-4594P ONLY]...

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[Page 31](#) SANYO Electric Co., Ltd. Osaka, Japan Jun./'01/1200 MI Printed in Japan...

This manual is also suitable for:

Vcc-4592p