



Sanyo VIZION DP50747 Service Manual

Remote control plasma color television

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SERVICE MANUAL

Servicing should be performed by only trained and qualified service personnel.

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VIZON®



DP50747, J4DE, PRODUCT CODE 111010304

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Remote Control Plasma Color Television

AS **VIZON**[®]

VIZON[®]

FILE NO.

DP50747

ORIGINAL VERSION

Chassis No. P50747-00

NOTE: Match the Chassis No. on
the unit's back cover with
the Chassis No. in the
Service Manual.

**If the Original Version
Service Manual Chassis
No. does not match the
unit's, additional Service**

Literature is required. You
must refer to "Notices" to the
Original Service Manual
prior to servicing the unit.

Specifications

Power Rating	120VAC
Antenna Input Impedance	75Ω
Receiving Channel	2 - 13 (VHF), 01, 14-94, 95-125 (CATV)
Remote Ready	32 Key Remote Control
Sound Output	7.0 W/CH
Intermediate Frequency	
Picture IF Carrier	45.75MHz
Sound IF Carrier	41.25MHz
Color Sub Carrier	42.17MHz
Cabinet Dimensions	
Width	1255mm
Height	846mm
Depth including base	281mm

REFERENCE No.

(U.S.A.)

(CANADA)

460W, 4.6A(Max)
UHF/VHF/CATV
Digital
14 - 69 (UHF),



all-guides.com

1-99 (Digital)

SM

780141

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Related Manuals for Sanyo VIZION DP50747

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Remote control plasma color television (62 pages)

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Sanyo plasma hdtv owner's manual (52 pages)

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[TV Sanyo DP50749 Service Manual](#)

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[TV Sanyo DP58D33 Owner's Manual](#)

Led 58" class 1080p hdtv lcd (2 pages)

[TV Sanyo DP50843 Owner's Manual](#)

50" class 1080p hdtv lcd (2 pages)

[TV Sanyo DP50749-02 Service Manual](#)

(10 pages)

[TV Sanyo DP52848 Service Manual](#)

Remote control digital color television chassis no. p52848-00 (58 pages)

[TV Sanyo Vizon DP37647 Service Manual](#)

Sanyo vizon remote control digital color television (49 pages)

[TV Sanyo DP37649 Service Manual](#)

Sanyo dp37649 remote control digital color television (55 pages)

[TV Sanyo FVM4612 Service Manual](#)

(37 pages)

Summary of Contents for Sanyo VIZION DP50747

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All manuals and user guides at all-guides.com with a double "Z" is a registered trademark of Sanyo Manufacturing Corporation. FILE NO. SERVICE MANUAL Remote Control Plasma DP50747 (U.S.A.) Color Television (CANADA) ORIGINAL VERSION Chassis No. P50747-00 NOTE: Match the Chassis No. on the unit's back cover with...

[Page 2: Safety Instructions](#)

All manuals and user guides at all-guides.com SAFETY INSTRUCTIONS SAFETY PRECAUTIONS READING SHOULD NOT EXCEED 750 mV. AC VOLTMETER WARNING: The chassis of this receiver has a floating (5000 ohms per volt or more sensitivity) ground with the potential of one half the

AC line voltage in respect to earth ground.

[Page 3: Service Adjustments](#)

All manuals and user guides at all-guides.com SERVICE ADJUSTMENTS GENERAL This set has an On-screen Service Menu system included in Volume - the CPU that allows remote operation for most of the ser- Enter Service Menu vice adjustments. ON-SCREEN SERVICE MENU SYSTEM 1.

[Page 4](#) All manuals and user guides at all-guides.com ON-SCREEN SERVICE MENU Table 1. ON-SCREEN SERVICE MENU When IC802 (EEPROM) is replaced, check the bus data to confirm they are the same as below. See page 3 for On-Screen Service Menu access and adjustments. Title Initial Data Note...

[Page 5: Power Failure Circuit](#)

All manuals and user guides at all-guides.com POWER FAILURE CIRCUIT Check the following if the unit is turned off by the power This unit is equipped with a Power Failure Detector function failure detector. included in the CPU which checks for an abnormal condi- tion in the chassis power supplies.

[Page 6: Mechanical Disassemblies](#)

All manuals and user guides at all-guides.com MECHANICAL DISASSEMBLY ATTENTION This PDP TV uses several different kinds of screws. Using the correct screw is required to prevent damage. The gasket is provided to prevent interference to other radio and television receivers. The gasket must be returned to its previous position after servicing.

[Page 7](#) All manuals and user guides at all-guides.com BOARD AND SPEAKER LOCATIONS 1: Main Board 3: Control Board 2: Sub-Power and Filter Board 4: Speakers SHIELD AND TERMINAL BASE REMOVAL Remove 5 screws (D:3X8, 3pcs, E:4X8, 2pcs) to take the shield off. Remove 5 screws (F:4X14, 2pcs, G:3X8, 3pcs) to take the terminal base off.

[Page 8](#) All manuals and user guides at all-guides.com MECHANICAL DISASSEMBLY (CONT.) BOARD REMOVAL 1: Main Board Removal 3: Control Board Removal Remove 5 screws (H:3X8) to take the main board Remove 2 screws (A:4X14) to take the control off. board off. 2: Sub-Power and Filter Board Removal Remove 9 screws (H:3X8, 6pcs, I:3X8, 2pcs, J:4X10, 1pc) to take the sub-power and filter...

[Page 9](#) All manuals and user guides at all-guides.com FILTER GLASS AND SPEAKER REMOVAL (Cont.) 3. Remove 13 screws (4X14) to take the shield plates (top, bot- tom, R/L sides) with the filter glass off. 4. Remove 4 screws (4X!4) to take off each speaker —...

[Page 10](#) All manuals and user guides at all-guides.com MECHANICAL DISASSEMBLY (CONT.) PANEL MODULE REMOVAL 1. Disconnect the following socket connections; PDP Module Power Unit ~ Sub-power and Filter Board: CN8003, CN8004 PDP Module Logic Unit ~ Main Board: CN8001 2. Remove 8 screws (4X14) from the panel Mounting Brackets and take the panel module off.

[Page 11: Chassis Electrical Parts List](#)

All manuals and user guides at all-guides.com CHASSIS ELECTRICAL PARTS LIST CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS, and PRODUCT SAFETY NOTICE on Page 2. PRODUCT SAFETY NOTICE PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE.

[Page 12](#) All manuals and user guides at all-guides.com Schematic Schematic Part No. Part No. Description Description Location Location CAPACITORS C1000 CK1H104ZLZFN CERAMIC 0.1U Z C001 CPXLB1C100YAN NP-ELECT 10U M C1001 CEXLB1H100VDN ELECT 10U M CEXLB1H100WAN ELECT 10U M CPXLB1C100ZAN NP-ELECT 10U M C1002 CEXLB1H100VDN ELECT...

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CERAMIC 1U Z C1652 CEXLB1E102VDN ELECT 1K U M C5529 CK1H104ZLZFNG CERAMIC...

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[Page 16](#) All manuals and user guides at all-guides.com Schematic Schematic Part No. Part No. Description Description Location Location IC1251 QCD4052BNSR-P IC CD4052BNSR L1654 RGFR000ZTAANL MT-GLAZE0.000 ZA 1/10W QTC4052BF---P IC TC4052BF-EL L1655 RGFR000ZTAANL MT-GLAZE0.000 ZA 1/10W IC1600 QLA5774MPE--P IC LA5774MP-DL-E L1670 RGFR000ZTAANL MT-GLAZE0.000 ZA 1/10W IC1610 QPQ070XNA1ZPP...

[Page 17](#) All manuals and user guides at all-guides.com Schematic Schematic Part No. Part No. Description Description Location Location L5516 RGFR000ZTAANL MT-GLAZE0.000 ZA 1/10W L6189 RGFR000ZTAANL MT-GLAZE0.000 ZA 1/10W L5521 RGFR000ZTAANL MT-GLAZE0.000 ZA 1/10W L6201 RGFR000ZTAANL MT-GLAZE0.000 ZA 1/10W L5522 RGFR000ZTAANL MT-GLAZE0.000 ZA 1/10W L6202 RGFR000ZTAANL MT-GLAZE0.000 ZA 1/10W...

[Page 18](#) All manuals and user guides at all-guides.com Schematic Schematic Part No. Part No. Description Description Location Location TRANSISTORS Q1202 T2SC2412K-R-P TR 2SC2412K-T-96-R T2SC2412K-S-P TR 2SC2412K-T-96-S Q101 T2SC2412K-R-P TR 2SC2412K-T-96-R T2SC2412K-S-P TR 2SC2412K-T-96-S T2SC2812-L7-P TR 2SC2812-L7-TB T2SC2812N-L6P TR 2SC2812N-L6-TB T2SC2812-L6-P TR 2SC2812-L6-TB T2SC3928A1R-P TR 2SC3928A1R T2SC2812-L7-P...

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[Page 21](#) All manuals and user guides at all-guides.com Schematic Schematic Part No. Part No. Description Description Location Location R1001 RGF75R0JTCANL MT-GLAZE 75 JA 1/10W R1206 RGF1002JTCANL MT-GLAZE 10K JA 1/10W R1002 RGF47R0JTCANL MT-GLAZE 47 JA 1/10W R1207 RGF1002JTCANL MT-GLAZE 10K JA 1/10W R1003 RGF75R0JTCANL MT-GLAZE...

[Page 22](#) All manuals and user guides at all-guides.com Schematic Schematic Part No. Part No. Description Description Location Location R1819 RGF1002JTCANL MT-GLAZE 10K JA 1/10W R5544 RGF1000JTCANL MT-GLAZE 100 JA 1/10W R1820 RGF1002JTCANL MT-GLAZE 10K JA 1/10W R5545 RGF2201JTCANL MT-GLAZE 2.2K JA 1/10W R1821 RGF4701JTCANL MT-GLAZE...

[Page 23](#) All manuals and user guides at all-guides.com Schematic Schematic Part No. Part No. Description Description Location Location R5907 RGF1002JTCANL MT-GLAZE 10K JA 1/10W R6238 RGF33R0JTCANL MT-GLAZE 33 JA 1/10W R5908 RGF2202JTCANL MT-GLAZE 22K JA 1/10W R6240 RGFR000ZTCANL MT-GLAZE 0.000 ZA 1/10W R5951 RGF1001JTCANL MT-GLAZE...

[Page 24](#) All manuals and user guides at all-guides.com Schematic Schematic Part No. Part No. Description Description Location Location R6502 RGF5R60JTCANL MT-GLAZE 5.6 JA 1/10W R6580 RGFR000ZTCANL MT-GLAZE 0.000 ZA 1/10W R6503 RGF5R60JTCANL MT-GLAZE 5.6 JA 1/10W R6581 RGF1001JTCANL MT-GLAZE 1K JA 1/10W R6504 RGF5R60JTCANL MT-GLAZE...

[Page 25: Cabinet Parts List](#)

RC-BATTERY LID 1AA2DES0916-- DEC SHEET AV W601 1AV4W11B29300 CORD, POWER 1AA2BUM0529-- BUTTON UNITED 1AV4W11B17100 CORD, POWER 1AA2DEM0444-- DEC IND 1AA2SDM0173-- STAND COVER 1AA2SDF0047-- STAND BASE (2) 1AA2DES0917-- DEC SHEET HDTV 1AV2BAAS015AA BADGE, SANYO 1AA2DES0712-F DEC SHEET, VIZON — 25 —...

[Page 26: Component And Testpoint Locations](#)

All manuals and user guides at all-guides.com COMPONENT AND TESTPOINT LOCATIONS MAIN BOARD PARTS SIDE R866 K_DL R1629 K_DEBUG K1000 R842 R1633 R843 R892 R1635 D9100 R844 R9107 K9100 R864 L2014 R1684 C701 R865 C683 C825 R1637 R1648 R1688 R863 L1605 IC001 R858...

[Page 27](#) All manuals and user guides at all-guides.com MAIN BOARD FOIL SIDE SC1508 L1723 L1722 K9100 L2017 L1721 R1515 R017 R9108 R1517 L2016 C011 K_DL IC001 L1713 R1518 C842 R1805 R9105 K_DEBUG C694 IC001A R1516 SC1805 C002 IC001B R9101 L1716 K1000 SC1509 IC001C L6704...

[Page 28](#) All manuals and user guides at all-guides.com COMPONENT AND TESTPOINT LOCATIONS (Cont.) KEY BOARD PARTS SIDE SW1902 SW1903 SW1904 SW1905 L1901 SW1901 A1901 C1903 C1902 K19FRA D1901 A30C5 PWB,CONTROL,N4SG A1902 1AA4B10N2020A POWER CH_UP VOL_UP VOL_DOWN CH_DOWN D1902 KEY BOARD FOIL SIDE SW1905 SW1904 SW1903...

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[Page 31](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAMS IC001, Audio AMP Standby Input amplifier + OUT1 IN 1 Output amplifier - OUT1 MUTE Vcc ground shorting protection circuit Load shorting protection circuit Thermal protection circuit + OUT2 IN 2 Output amplifier - OUT2 Input amplifier...

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[Page 38](#) All manuals and user guides at all-guides.com IC BLOCK DIAGRAMS (Cont.) IC6502, DVI / HDMI SWITCH (3.3V) VSADJ TMDS Drive 3~to~1 MUX TMDS Drive TMDS Drive (3.3V) TMDS Drive HPD1 HPD2 Control Logic HPD_SINK HPD3 SCL1 SCL_SINK SDA1 SDA_SINK SCL2 SDA2 SCL3 SDA3...

[Page 39](#) All manuals and user guides at all-guides.com IC6551, HDMI MULTIPLEXER Same as above block — 39 —...

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[Page 41: Troubleshooting Flow Charts](#)

All manuals and user guides at all-guides.com TROUBLESHOOTING FLOW CHARTS NO POWER fuse (F601) Check: open? Varistor (VA601), Sub Power & Filter Unit the voltage Check: Power Unit to "5V_STBY" line (PDP Module) supplied? All 0V (except '5V_STBY' line) the voltage to all lines Check: around supplied? CPU (IC801), IC (IC802),...

[Page 42](#) All manuals and user guides at all-guides.com TROUBLESHOOTING FLOW CHARTS (Cont.) NO AUDIO Is there Check: All Modes ? signal at speaker Speaker (L / R) terminal ? Is there Check: signal at IC001 2pin (L) Line: IC001 6pin - IC801 (CPU) 38pin (Mute) or 4pin (R) ? Parts: Around IC001 (Audio AMP.) Check:...

[Page 43](#) All manuals and user guides at all-guides.com NO VIDEO Check: RF (TV) only All Inputs? Line: A6100 4pin - Q101 - IC1201 2pin Parts: Around A6100 (TU_IF), Q101 AV1 only Check: Line: IC1201 1pin (Composite Video: CV) IC1201 5pin (S-Input: Y) IC1201 13pin - IC5500 Y3 (AV1: C) Check: AV2 only...

[Page 44: Control Port Functions](#)

All manuals and user guides at all-guides.com CONTROL PORT FUNCTIONS System Control (CPU : IC801) Pin Name Function I/O Description CVin Reserve GND (0Vdc) P70/INT0/TOLCP LINE OFF Detect AC Voltage Reduction (Normal: High) P71/INT1/TOHCP Reserve (Open) P72/INT2/TOIN Display Enable (Unused) P73/INT3/TOIN RC in RC Input...

[Page 45](#) All manuals and user guides at all-guides.com CONTROL PORT FUNCTIONS (Cont.) System Control (CPU : IC801 Cont.) Pin Name Function I/O Description P12/SCK0 PDP/LCD Option Setting (PDP: High, LCD: Low) Panel Size 3 Panel size Panel Size 2 Panel size Panel Size 1 Panel size Panel Size 0...

[Page 46: Schematic Notes](#)

All manuals and user guides at all-guides.com SCHEMATIC DIAGRAMS NOTES ON SCHEMATIC DIAGRAMS 1. All resistance values in ohms K=1,000 M=1,000,000. 2. Resistors specified with resistance value are "1/6DJ. " 3. Resistors specified with type of resistor, tolerance and resistance value are "1/4. " 4.

[Page 47: Pin Layouts](#)

All manuals and user guides at all-guides.com IC, DIODE, AND TRANSISTOR PIN LAYOUTS INTEGRATED CIRCUITS PHOTO COUPLERS DIODES TRANSISTORS TOP VIEW TOP VIEW MARK COUNT TERMINALS IN ARROW DIRECTION SIDE VIEW INFRARED EMITTING B ... BASE C ... COLLECTOR A..ANODE E ...

[Page 48: Capacitor And Resistor Codes](#)

YWire Wound CSolid DCarbon Film WWire Wound For parts or service contact Sanyo Manufacturing Corporation P .O. Box 2000 3333 Sanyo Road Forrest City, Arkansas 72335-2000 March 2007 SMC Published in U.S.A.

[Page 49](#) All manuals and user guides at all-guides.com DP50747 Ischematic 3/7/07 8:27 AM Page 1 MODEL DP50747 Chassis No. P50747-00 SCHEMATIC DIAGRAMS ELECTROSTATICALLY SENSITIVE DEVICES Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under 50 PLASMA DISPLAY PANEL "Servicing Electrostatically Sensitive Devices, "...

[Page 50](#) All manuals and user guides at all-guides.com DP50747 Ischematic 3/7/07 8:27 AM Page 2 Chassis No. P50747-00 MODEL DP50747 SCHEMATIC DIAGRAMS ELECTROSTATICALLY SENSITIVE DEVICES Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices, "...

[Page 51](#) All manuals and user guides at all-guides.com DP50747 Schematic 4/13/07 10:55 AM Page 3 Chassis No. P50747-00 MODEL DP50747 SCHEMATIC DIAGRAMS ASSY, PWB, MAIN SCL_D TO IC5500 TO IC6301 SDA_D C1017 TO TUNER EM4.7LBVD IF_AGC IEC958 SHELD CASE 2 R1074 1/10GJ82C R1075 I2COCLK...

