

# Sanyo LMU-TK12A Service Manual

Industrial monitor



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Troubleshooting

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# SERVICE MANUAL

INDUSTRIAL MONITOR

PRODUCT CODE NO.

LMU-TK12A

1 938 102 06

LMU-TK12AT

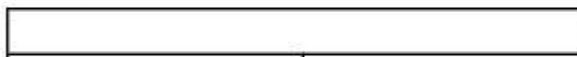
1 938 102 07

LMU-TK12A

(Without Touch Panel)

LMU-TK12AT (With Touch Panel)

(GENERAL)



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# Summary of Contents for Sanyo LMU-TK12A

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## [Page 3: Precautions](#)

PRECAUTIONS Placement precautions Avoid placing the unit in humid or dusty places, or where it will be exposed to excessive heat (direct sunlight, heaters, etc.) Do not step on or set anything on the AC cord. DAMAGE TO THE AC CORD IS A SAFETY RISK AND CAN CAUSE A FIRE. Do not connect the unit to the same AC as outlet with appliances that generate large amounts of interference (such as heaters with thermostats, appliances with motors, etc.).

## [Page 4: 1, Main Specification](#)

1. MAIN SPECIFICATION Model Name LMU-TK12AT LMU-TK12A Display Panel Type Screen Size 12.1" Pixel Pitch 0.308 X 0.308 mm Effective Viewing Area 246.0 X 184.5 mm Pixel Format 800 X 600 Brightness 200cd/m typ. Response Time 50ms Contrast 150 : 1 typ.

## [Page 5: 2, Trouble Shooting](#)

2. TROUBLE SHOOTING The "TROUBLESHOOTING for LCD Monitor" is described in below. Please refer to the manual "TROUBLE SHOOTING for Touch-Screen" in CD-ROM. SYMPTOM CHECK POINTS TREATMENTS No Picture with Power 1 Is the Power to a LCD monitor "ON"? Check AC outlet, AC cord, DC Jack and Indicator OFF Power switch for a LCD monitor...

[Page 6](#) SYMPTOM CHECK POINTS TREATMENTS White/Grey on whole 1 Is the wire harness between main PCB Check the connection of wire harness screen and LCD module secured firmly ? (Nothing on screen) 2 Is the LCD module defective ? Replace a LCD module with the new 3 Is the main PCB defective ? Replace the main PCB with the new one Screen's display range...

## [Page 7: Disassembling The Major Components](#)

3 MAINTENANCE 3-2 LMU-TK12AT Disassembling the major components Cabinet 1. Unscrew to secure the cabinet(8-position) 2. Pull the cabinet upward to remove it LCD Panel and Touch Panel 1. A Touch panel is on a LCD panel. The clearance between a Touch Panel and a bottom case are filled with 8 rubber pieces.

## [Page 8: 4, Block Diagram](#)

BLOCK DIAGRAM OSD Key EEROM Micro Controller SVGA Video Video Controller Panel Cheetah 2 Clock Gen. Inverter Volume Control Board Touch Screen RS232C (for LMU-TK12AT only)

## [Page 9: 5, Connection Diagram](#)

N.C. CON3 LGND Touch Screen TFT 12-inch Liquid Crystal Display (Note) Inverter Unit +12V Touch Screen Controller ON (5V) (Note) SANDDUNE 1 Analogue DC IN Interface P.C.B J201 P.C.B +12V CN202 CN201 Adapter CN501 GREEN Connector Volume P.C.B P.C.B P.C.B CN503 Plug CN401...

## [Page 10: 6, Table Of Signal Name](#)

6. TABLE OF SIGNAL NAME Symbol Signal Name Location Notes DCLK Data Clock P4-2 HSYNC Horizontal Sync. P4-4 This signal is invalid, input H or L. VSYNC Vertical Sync. P4-5 This signal is

invalid, input H or L. Red Data (LSB) P4-9 Red Data P4-10...

[Page 11](#) 6. TABLE OF SIGNAL NAME Touch Screen Controller (for LMU-TK12AT only) Symbol  
Signal Name Location Notes Request To Send JP1-1 Receive Data JP1-2 Transmit Data JP1-3  
Clear To Send JP1-4 Data Carrier Detect Data Terminal Ready Signal ground Data Set Ready  
Chassis (earth) ground Upper right (UR) corner JP2-9...

### [Page 14: 7-2. Parts List](#)

7-2. Parts List CAUTION Parts marked as Are very important to secure safety. In case of  
replacement, it is required to use designated parts for safety. 7-2-1 LMU-TK12A REF No. PART No.  
DESCRIPTION Q'ty NOTES OUTER (632 872 2563) OUTER CARTON...

[Page 15](#) CAUTION Parts marked as Are very important to secure safety. In case of  
replacement, it is required to use designated parts for safety. 7-2-2 LMU-TK12AT REF No. PART  
No. DESCRIPTION Q'ty NOTES OUTER (632 872 2563) OUTER CARTON (632 613 4436) LABEL,  
BARCODE INDIVIDUAL (632 872 2570)

### [Page 16: 8, Appendix](#)

APPENDIX Version of Firmware The Version of Firmware is displayed on screen. Turn the Power  
Switch to 'OFF'. While pressing of the [SELECT] button, turn the Power Switch to 'ON'.

This manual is also suitable for:

[Lmu-tk12at](#)