

AOD 104 OPEN FRAME

USER'S MANUAL



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All In One

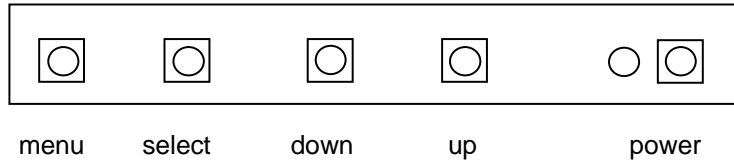
Specifications

| | | |
|-----------------------|-------------------------|--|
| PANEL | Display Type | TFT LCD Panel |
| | Max. Resolution | 640 x 480 (VGA) |
| | Screen size | 10.4 Inch |
| | Display Colors | 262,144 Colors |
| | Pixel Pitch | 0.33 x 0.33 mm |
| | Brightness | 400cd/m ² (Typical) |
| | Contrast Ratio | 300 : 1 (typical) |
| | Viewing Angle | 60°/60° (L/R) & 40°/50° (U/D) (Typical) |
| | Display Area | 211.2 x 158.4 mm |
| Input Signal | Standard | Analog RGB (D-Sub 15pin) |
| | Video Signal (optional) | Video (Composite & S-Video) |
| | Sync. | Hori. 31.5 ~ 80KHz Vert. 56 ~ 75Hz |
| | Dot Clock | 85MHz (Max.) |
| | Recommended | 640 x 480 @ 60Hz |
| Power Consumption | On working | < 35 watt (Max.) |
| | Stand By, Sleep | < 4 watt (Max.) |
| Plug & Play | | DDC1 / DDC2B |
| Power saving | | VESA DPMS |
| Power supply adapter | Input | AC 100V ~ 240V, 50 ~ 60 Hz |
| | Output | 12V DC |
| Operating Temperature | | 0 ~ 50°C |
| Storage Temperature | | -20 ~ 60°C |
| Operating Humidity | | 10%RH ~ 90%RH |
| Dimension | | 264.5 x 196.5 x 41mm |
| Weight (NET) | | 1.8 Kg |
| Standard accessories | | VGA cable, AC adapter, Power cord, Touch cable, Touch CD-ROM |
| Touch Screen | Touch Screen | 4-wire resistive |
| | Touch Interface | USB or RS232 |
| Option | VESA ARM | 75 x 75 mm & 100 x 100 mm |
| | AV | Composite & S-Video |



All In One

OSD (On-Screen-Menu)



| Button | Function | Status |
|--------|-------------------------------|--|
| POWER | Power ON or OFF | ON/OFF |
| LED | Indicate working status | Green : On Red : Stand-by Orange : No signal |
| UP | Launch OSD Menu or Add Value | Move to OSD Menu |
| DOWN | Launch OSD Menu or Down value | Move to OSD Menu |
| SELECT | Select OSD Menu | |
| MENU | On / Off OSD Menu | |

OSD Controls



BRIGHTNESS : Adjust brightness

CONTRAST : Adjust contrast

COLOR CONTROL : Adjust color to user,9300K,6500K

Adjust RED, GREEN, BLUE when selecting User

MISCELLANEOUS - Initialize : Make all setting value as initialization.

- OSD Timer : Adjust the time displayed on the menu box from 5sec to 100sec optionally.

- OSD Position : Adjust the position of the menu box optionally.

SOUND : -Volume : Adjust AMP volume

- Mute : Speaker on/off

- Treble : Adjust optionally

- Base : Adjust optionally

AUTO(AUTO ADJUST) : Adjust the status of monitor automatically to high quality

Language : Available for 10 foreign language(English, France, Dutch, Italiano, Espano, Deutch, Svenska, Suomi, Dansk, Portuglues)

H-B POSITION - H. Position : Adjust horizontality

- V. Position : Adjust verticality

Frequency/Clock : - Phase : Adjust noise, overlapping display

- Clock : Adjust a number of pixel of horizontal plane

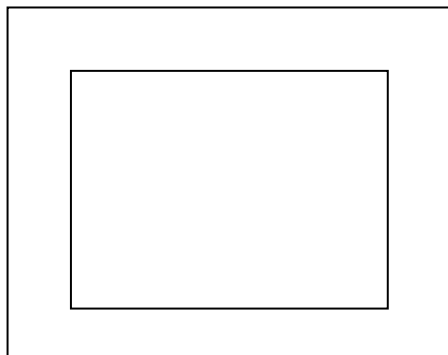
Input : RGB - Select VGA signal of computer

SVHS – Select super video signal

Composite Video – Select video signal

TV- Select TV signal when choosing TV option

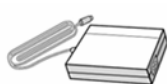
Contents Of the Retail Package



Monitor



User's Manual



AC/DC Adaptor



Power Cord



VGA Cable



Audio Cable



Touch Driver (Option)



Composite Cable (Option)



S-video Cable (Option)

Troubleshooting

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The monitor does not respond after you turn on the system.

Make sure that the monitor is turned on.

Turn off the power and check the monitor's power cord, AC adapter, and signal cable for proper connection.

Appear the " No Input the Signal"

Check the connecting of the audio cable between the monitor and the computer.

Appear the " Input Not the Supported"

Input signal are insuperable, reset the video mode.

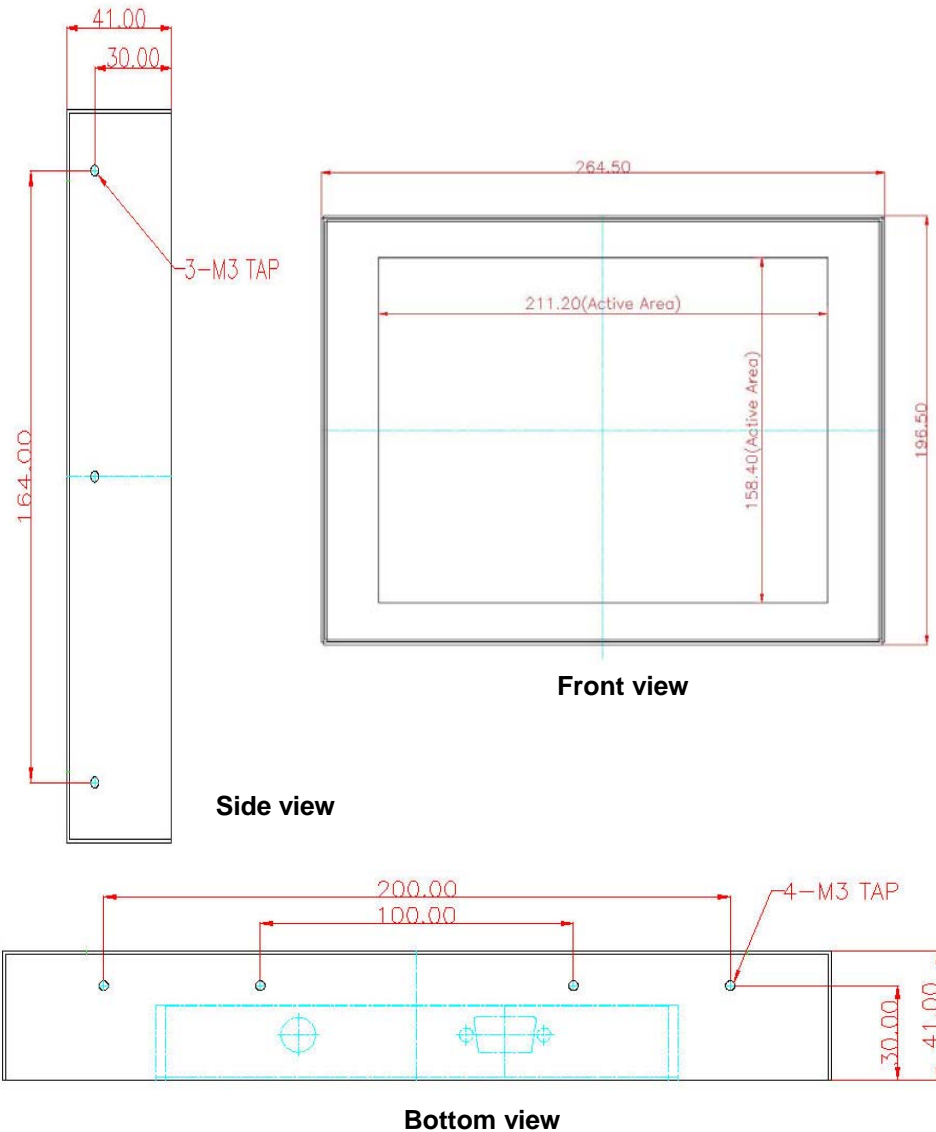
The appearance is not at the screen center.

Use "AUTO ADJUST", refer to the Controls section.

The characters on the screen are too dim or too bright

Choose fit color temperature, use "AUTO COLOUR ADJUST or manually adjust "RGB ADJUSTMENT, refer to the Control section.

Drawing



Specification of (OPTION)

5 Wire Analog Resistive Touch Panel

A. Application

This specification applies to the 5 Wire Analog Resistive Touch Panel.

B. Environmental Conditions

- Operating Temperature Range**
-20°C – 70°C
- Operating Humidity Range**
5% – 96% RH (no dew falls)
- Storage Temperature Range**
-25°C – 80°C
- Storage Humidity Range**
5% – 96% RH (no dew falls)
- Water Spray**
Not damaged by running water applied to the active area.
- Vibration**
Withstand 0.01 inches peak to peak excursion, at a frequency of 5 to 455 Hz, for a period of 15 minutes in each of three axes.
- Chemical Resistance**
The touch panel active area of the touchscreen is resistant to the following chemicals when exposed for a period of one hour at a temperature of 21°C:
 - Acetone
 - Ammonia-based glass cleaners
 - Common foods and beverages
 - Hexane
 - Isopropyl alcohol
 - Methylene chloride
 - Methyl ethyl ketone
 - Mineral spirits
 - Turpentine

C. Electrical Characteristics

- 1. Supply Voltage**
+5VDC, nominal.
- 2. Lead to Lead Resistance**
40Ω ~ 100Ω (between X – Y)
50Ω ~ 110Ω (between X – LX)
50Ω ~ 110Ω (between Y – LY)
40Ω ~ 100Ω (between LX – LY)
- 3. Contact Bounce**
Less than 10 ms (input by finger).
- 4. Electrostatic Discharge Protection**
Withstands 20 discharges of 15kV, distributed randomly across the active area with proper transient protection.
(per EN 61000-4-2, 1995)

D. Mechanical Characteristics

- 1. Activation force**
Less than 40gr.
Using by the silicone finger, hardness = 60° of diameter 16mm.
- 2. Input Methods**
Finger, glove hand, pen or stylus.
- 3. Surface Hardness**
Meets pencil hardness 3H (per ASTM D3363).
- 4. Position Accuracy (Linearity)**
Less than 1%.
- 5. Resolution**
Based on controller resolution of 4096 x 4096.
- 6. Cable**
 - Type: F.C.C. (flat conductor cable)
 - Standard length: 300mm

- Connecting area with touch panel
The tensile force: vertical to touch panel — 2.0 kg
straight to touch panel — 1.0 kg
Connecting type: 5 points soldering adding UV glue
Cable fold : 10 times in 1R, 180 degrees
Detail specification: ETC test, No.: ET-88T-12-102-C00
- 7. Connector**
Five-position, 0.025 inch (0.635mm) square post receptacle with 2.54mm centers.
The times of insertions and withdrawals : at least 100 times.

E. Reliability

The following characteristics are generated by evaluating test samples after 2 hours leaving in the room condition when each of the reliability tests finishes.

| Test Item | Result | Remark |
|---|--|--------------------------------------|
| Storage Temperature-high | 80°C for 240hours | At ambient humidity |
| Storage Temperature-low | -25°C for 240hours | |
| Thermal Shock | -20°C (1hr.) ~ 70°C (1hr.) 10cycles | |
| High Temp./Humidity Test | 60°C/90%RH : 240hours | |
| Operating Life 1 : Hitting Key Test (*1) | 250g , 2 activations / sec. More than 35,000,000 times | By using Silicone finger (*2) |
| Operating Life 2 : Writing Test (*1) | 250g , 4.5mm / sec. More than 1,000,000 times | By using polyester finger (*3) |

*1 Without supplying Volts.

*2 Positions of hitting key are between the dots by Silicon finger (hardness 60° silicon rubber) of diameter 16mm.

*3 Writing test is made by polyester stylus pen with tip radius.

F. Optical Performance

Light Transmission 75~ 85% (typical value) (per ASTM D1003)