



**User Manual**

# **IDS-3119 Series**

**19" Industrial Open Frame  
Monitor**

**ADVANTECH**

*Enabling an Intelligent Planet*

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## Product Warranty (2 years)

Advantech warrants to you, the original purchaser, that each of its products will be free from defects in materials and workmanship for two years from the date of purchase.

This warranty does not apply to any products which have been repaired or altered by persons other than repair personnel authorized by Advantech, or which have been subject to misuse, abuse, accident or improper installation. Advantech assumes no liability under the terms of this warranty as a consequence of such events.

Because of Advantech's high quality-control standards and rigorous testing, most of our customers never need to use our repair service. If an Advantech product is defective, it will be repaired or replaced at no charge during the warranty period. For out-of-warranty repairs, you will be billed according to the cost of replacement materials, service time and freight. Please consult your dealer for more details.

If you think you have a defective product, follow these steps:

1. Collect all the information about the problem encountered. (For example, CPU speed, Advantech products used, other hardware and software used, etc.) Note anything abnormal and list any onscreen messages you get when the problem occurs.
2. Call your dealer and describe the problem. Please have your manual, product, and any helpful information readily available.
3. If your product is diagnosed as defective, obtain an RMA (return merchandise authorization) number from your dealer. This allows us to process your return more quickly.
4. Carefully pack the defective product, a fully-completed Repair and Replacement Order Card and a photocopy proof of purchase date (such as your sales receipt) in a shippable container. A product returned without proof of the purchase date is not eligible for warranty service.
5. Write the RMA number visibly on the outside of the package and ship it prepaid to your dealer.

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# Declaration of Conformity

## CE

This product has passed the CE test for environmental specifications. Test conditions for passing included the equipment being operated within an industrial enclosure. In order to protect the product from being damaged by ESD (Electrostatic Discharge) and EMI leakage, we strongly recommend the use of CE-compliant industrial enclosure products.

## FCC Class A

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## FM

This equipment has passed the FM certification. According to the National Fire Protection Association, work sites are classified into different classes, divisions and groups, based on hazard considerations. This equipment is compliant with the specifications of Class I, Division 2, Groups A, B, C and D indoor hazards.

# Technical Support and Assistance

1. Visit the Advantech website at <http://support.advantech.com> where you can find the latest information about the product.
2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:
  - Product name and serial number
  - Description of your peripheral attachments
  - Description of your software (operating system, version, application software, etc.)
  - A complete description of the problem
  - The exact wording of any error messages

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## Warnings, Cautions and Notes

**Warning!** *Warnings indicate conditions, which if not observed, can cause personal injury!*



**Caution!** *Cautions are included to help you avoid damaging hardware or losing data. e.g.*



*There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.*

**Note!** *Notes provide optional additional information.*



## Document Feedback

To assist us in making improvements to this manual, we would welcome comments and constructive criticism. Please send all such - in writing to: [support@advan-tech.com](mailto:support@advan-tech.com)

# Safety Instructions

1. Read these safety instructions carefully.
2. Keep this User Manual for later reference.
3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage.
7. The openings on the enclosure are for air convection. Protect the equipment from overheating. **DO NOT COVER THE OPENINGS.**
8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
10. All cautions and warnings on the equipment should be noted.
11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
12. Never pour any liquid into an opening. This may cause fire or electrical shock.
13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
14. If one of the following situations arises, get the equipment checked by service personnel:
  - The power cord or plug is damaged.
  - Liquid has penetrated into the equipment.
  - The equipment has been exposed to moisture.
  - The equipment does not work well, or you cannot get it to work according to the user's manual.
  - The equipment has been dropped and damaged.
  - The equipment has obvious signs of breakage.
15. **DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY GO BELOW -20° C (-4° F) OR ABOVE 60° C (140° F). THIS COULD DAMAGE THE EQUIPMENT. THE EQUIPMENT SHOULD BE IN A CONTROLLED ENVIRONMENT.**
16. **CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER, DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.**

The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70 dB (A).

DISCLAIMER: This set of instructions is given according to IEC 704-1. Advantech disclaims all responsibility for the accuracy of any statements contained herein.

**Caution!** *For power adapter selection: the information about the adapter output rating (12 Vdc, 5 A min, or 18 W min) is provided in the user manual for user's selection if the power adapter is not shipped with the unit*





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# Chapter 1

## Overview

Sections include:

- Introduction
- Features
- Applications
- Product Photos
- Naming Rule

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## 1.1 Introduction

The Advantech IDS-3119 series is a brand new Industrial Open Frame Monitor, designed to meet the needs of customers who want quick and easy integration with Advantech Embedded Box Computers, such as ARK and DSA lines.

## 1.2 Features

- 19" SXGA LED backlight panel provides 20~30% power saving
- 0°C ~ 45°C operating temperature support
- Specially designed 5-wire resistive touchscreen
- All new mechanical design with integrated bracket for easy installation
- Versatile mounting methods for rear mount and VESA mount (75 x 75 mm, 100 x 100 mm)

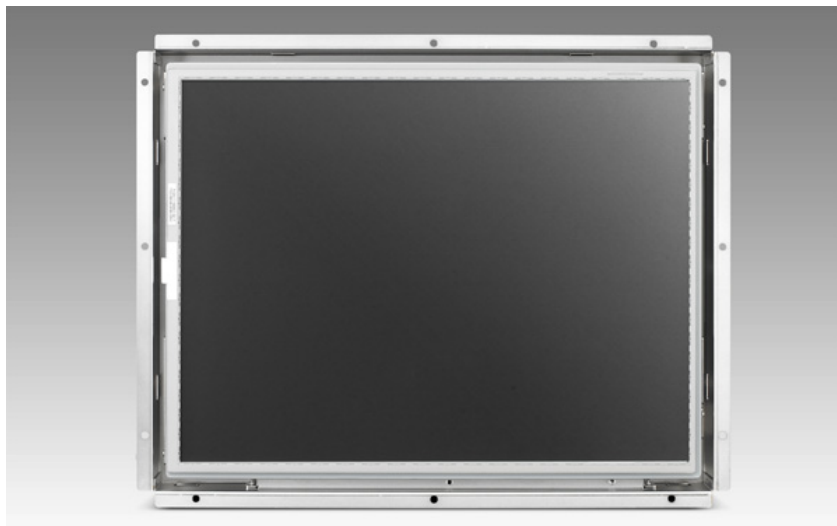
## 1.3 Applications

Application scenarios - self-service applications:

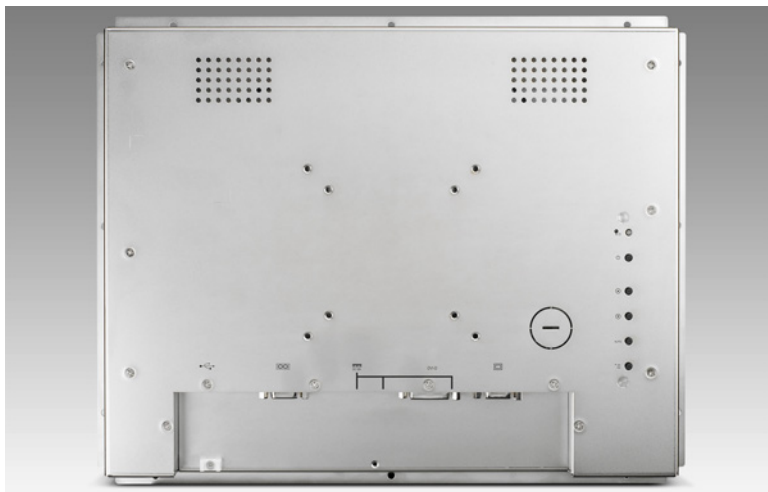
- KIOSK / POI machine
- Transportation machine
- Ticketing machine
- Financial ATM
- Entertainment / Gaming / Slot machine
- HMI (Human-Machine Interface) equipment controller monitor
- Public communication machine
- Public advertisement machine

## 1.4 Product Photos

Front view



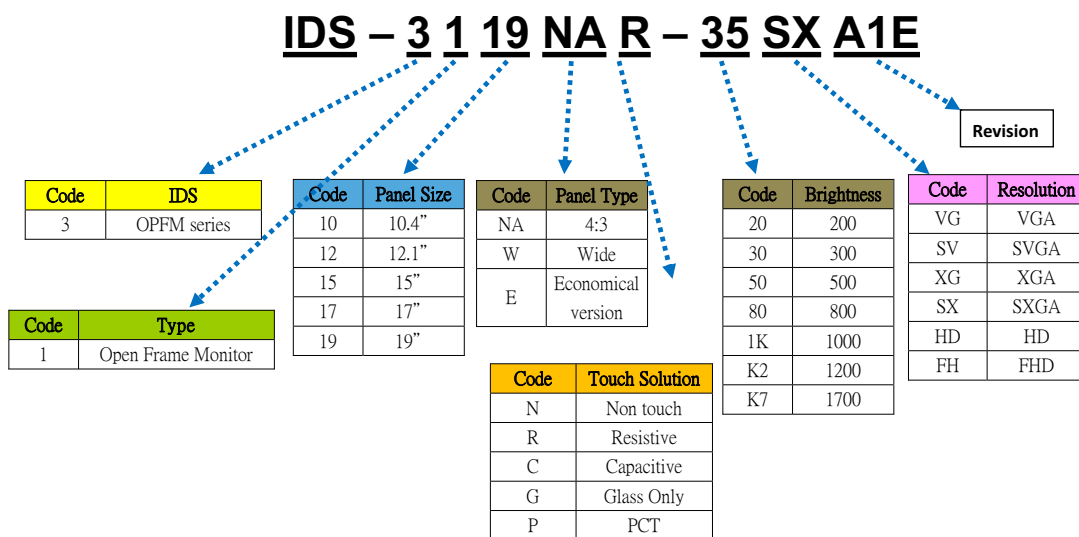
Rear view



IDS-3119 Bottom view



1.5 Naming Rule





# Chapter 2

## System Setup

Sections include:

- Specifications
- Dimensions
- Rear Mount Assembly SOP
- Cable Clamp
- Accessory Packing

## 2.1 Specifications

**Note!** The IDS-3119 series offers the following features and meets precise specifications.



Unless otherwise noted, all the information listed below is subject to change without prior notification.

|                    | Model                 | IDS-3119   |
|--------------------|-----------------------|--|
| <b>Display</b>     | Size                  | 19" LED panel  |
|                    | Resolution            | 1280 x 1024 (SXGA)   |
|                    | Viewing Angle         | 85° /85° (H), 80° /80° (V)   |
|                    | Brightness            | 350 (cd/m <sup>2</sup> )   |
|                    | Color Support         | 16.7 M colors  |
|                    | Contrast Ratio        | 1000:1   |
|                    | Response Time         | 5 [msec]   |
|                    | Backlight Life        | 50,000 hrs   |
| <b>Touch</b>       | T/S Type              | 5-Wire Resistive Touch Screen  |
|                    | Surface Hardness      | 3H   |
|                    | Durability            | 10 million touches   |
|                    | Transparency          | 80% ± 3%   |
| <b>Environment</b> | Operating Temperature | 0~ 45° C (32 ~ 113° F)   |
|                    | Storage Temperature   | -20 ~ 60° C ( -4 ~ 140° F)   |
|                    | Humidity              | 5 ~ 90% @ 40° C, non-condensing  |
|                    | Vibration             | 5-500Hz, 0.026G2/Hz, 2.16Grms, X, Y, Z<br>1 hour per axis  |
| <b>System</b>      | I/O (IDS-3119)        | VGA x 1; DVI-D x 1; 12 VDC Jack x 1;<br>USB x1; RS-232 x 1<br>(USB & RS-232 are reserved for the connection to enable touch usage only)  |
|                    | OSD (IDS-3119)        | Keys: Menu, Up, Down, Auto Adjust, Monitor Power on/off.<br>Menu Functions: Brightness, Contrast, Screen Settings, Color Temp, Language OSD Settings, VGA/ DVI , Recall , Auto Adjust. |
|                    | Power                 | 60 W power adapter, with AC 100 ~ 240 V input and DC +12 V @ 5 A output.   |
|                    | EMC Compliance        | CE/FCC/CCC   |
|                    |                       |  |

## 2.2 Dimensions

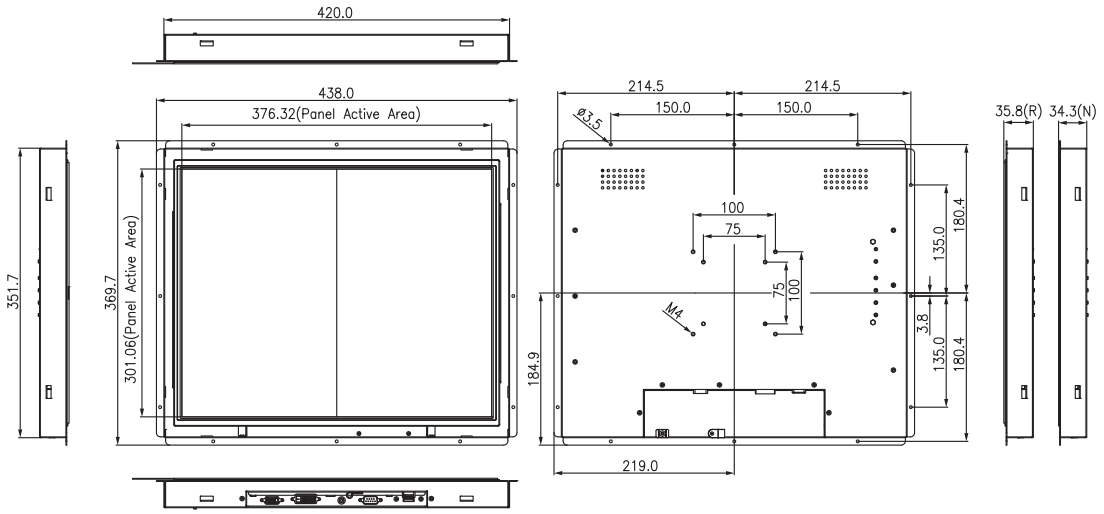
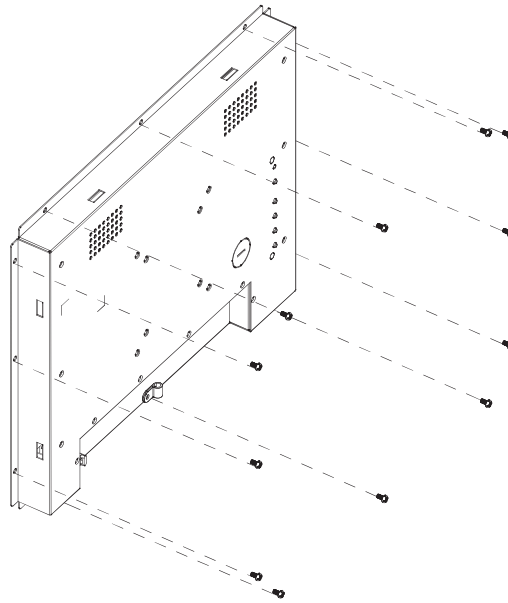


Figure 2.1 IDS-3119 Series Dimensions

## 2.3 Rear Mount Assembly SOP

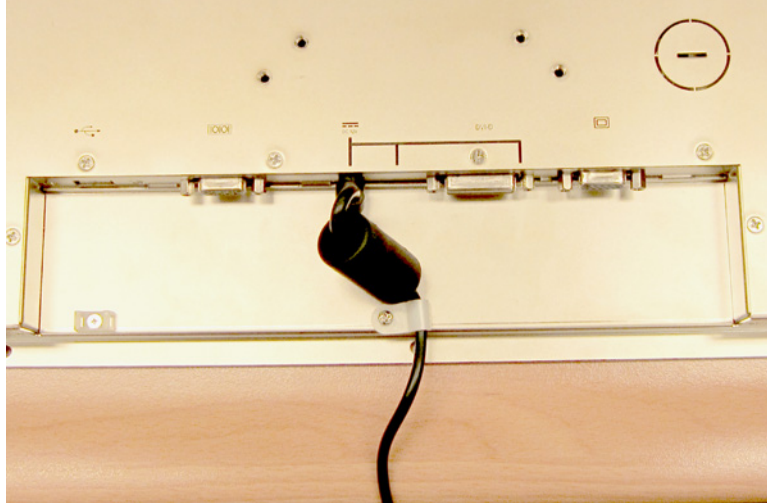
1. Use the M3 screws to attach and tighten as follows.



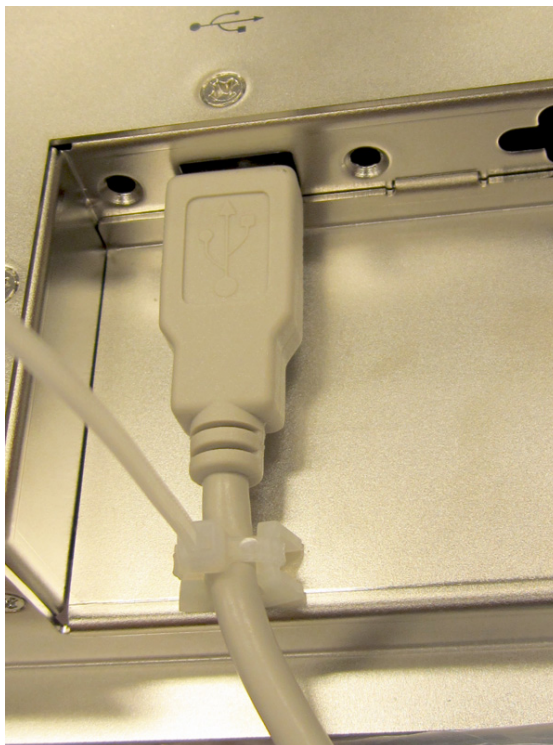
## 2.4 Cable Clamp

1. A cable clamp also comes with Open Frame Monitor to fix the power cable, see below.

### Cable Clamp with IDS-3119



2. A cable tie for the USB cable is included in the accessory box, see below:





## 2.5 Packing List

- 1 x VGA cable 15P(M) 1.8 meter
- 1 x USB-A(M)/USB-A(M) 1.8 meter
- 8 x Panel-mount clamps
- 8 x Panel-mount clamping screws: M4\_25L
- 1 x Cable clamp
- 1 x Cable clamp screw
- 1 x Cable tie
- 1 x 60 W DC12V Power Adapter (optional order)
- 1 x Power Cord (optional order)
- 1 x DVI cable 2.0 meter (optional order)
- 1 x RS-232 9P/9P 1.8M M/F cable (optional order)

**Note!** *The above accessory cables are subject to change in different SKUs.*





# Chapter 3

## Touchscreen

Sections include:

- OSD Functions
- Touch Drivers

## 3.1 OSD Functions (IDS-3119 Series)

The OSD of the IDS-3119 display (1280 x 1024 resolution) was selected to illustrate examples below:

| Buttons       | Description   |
|---------------|---|
| Power         | Turn the monitor power ON or OFF  |
| Menu          | Activate the OSD menu<br>Exit menu  |
| Auto          | Automatically adjust the clock, phase<br>H-position and V-position                          |
| Value Up/Down | Move the selector to the previous option<br>Decrease the gauge value of the selected option |

| LED Function |        |
|--------------|--------|
| DPMS ON      | Green  |
| DPMS STANDBY | Orange |
| DPMS OFF     | Red    |

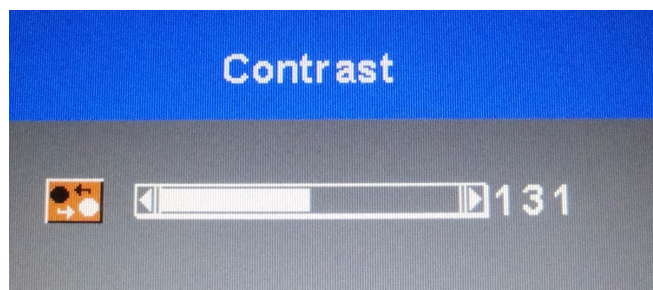
### 3.1.1 OSD Main Menu: Push the MENU Key



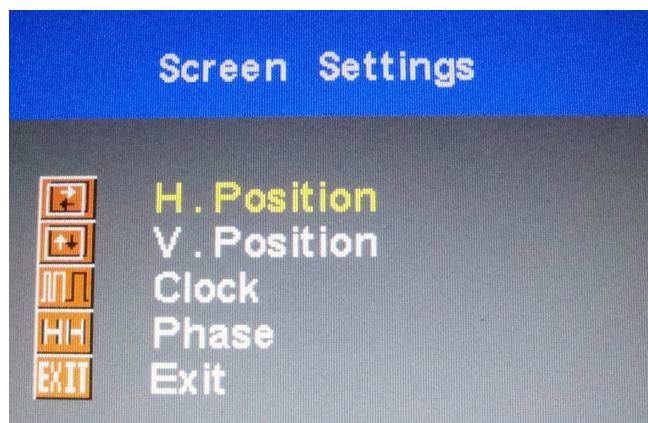
### 3.1.2 Brightness Selection - Submenu



### 3.1.3 Contrast Control



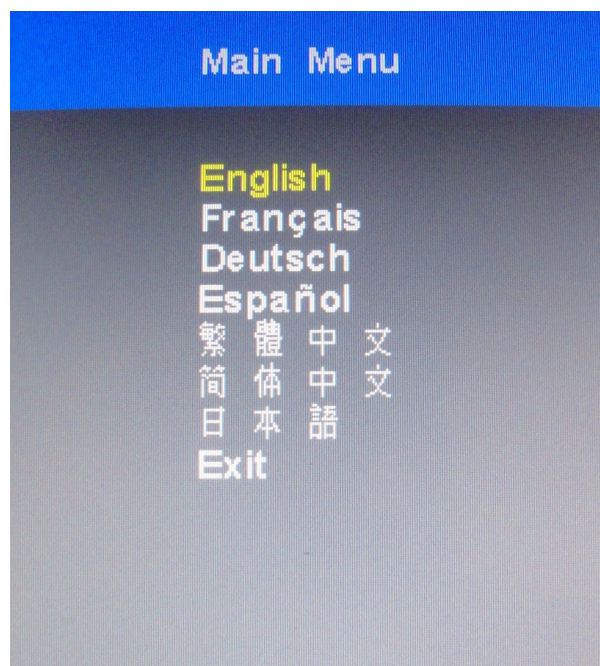
### 3.1.4 Screen Settings - Submenu



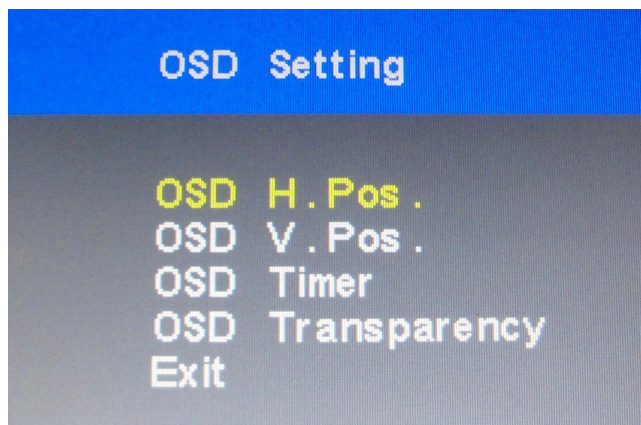
### 3.1.5 Color Temperature - Submenu



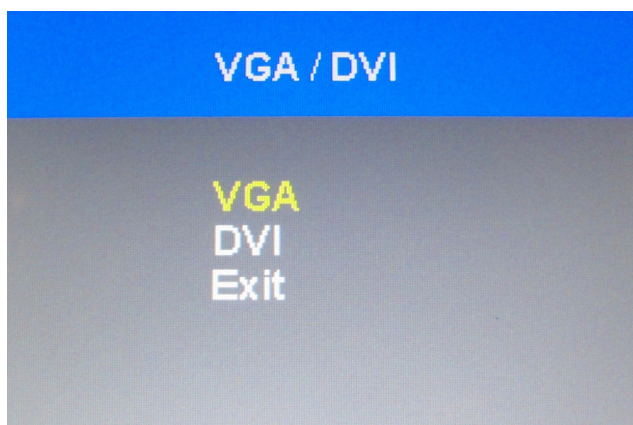
### 3.1.6 Language - Submenu



### 3.1.7 OSD Setting - Submenu



### 3.1.8 VGA/DVI Selection



## 3.2 Touch Drivers

The T/S driver is available online at the Advantech website as follows:  
<http://support.advantech.com/support/default.aspx>





# Appendix **A**

Troubleshooting

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## A.1 Introduction

If experiencing trouble with the monitor, or it fails to operate correctly, please refer to the following instructions before calling the Advantech service center. If unable to correct the faults using the instructions below, then please contact the distributor or the services/repair center.

## A.2 Troubleshooting

### No Images Appears On Screen

- Check to see that all the I/O and power connectors are installed correctly and connected. (Refer to 1.4, Open Frame Bottom view )
- Make sure that none of the connectors are crooked, broken or loose.
- Make sure that the OSD power on the LED is turned on.
- Make sure that the brightness is not in the minimum.
- Make sure that the screen resolution is set to the correct setting for the type of LCD, and that the setting does not exceed the resolution specified for the particular model of LCD.

### The image is incorrectly displayed, or the full screen image does not appear

- Please make sure the screen resolution on the motherboard is correct.

### The position of screen is not in the center

- Adjust the H-position and V-position or perform "Auto".

### Out of range

- When the message "Out of Range" appears onscreen, it indicates that the signal of the computer is not compatible with the LCD display; i.e. the resolution exceeds the specified resolution for the LCD.
- Adjust the BIOS setting to match the correct resolution.

### No signal

- The display is powered on, but can neither receive or display any signal from the computer. Check all power switches, power cables and VGA signal cables to ensure that all are connected correctly on both sides.

### Going to sleep

- If the system goes to sleep, then the display has either been set to power-saving mode, or the display is experiencing a sudden signal disconnection problem. Check the BIOS system settings, and/or Windows configuration. Then check the connection of the power cable to computer on both sides.



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