



User Manual



Innovative LCD Display Solutions

AP—19AV Series

DP—19AV Series

OP—19AV Series

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Disclaimer

This information is subject to change without notice. The producer of this manual accepts no responsibility for damage or claims, resulting from misuse or misinterpretation.

2. Introduction

A. Overview

This LCD monitor incorporates 19" color active matrix thin-film-transistor (TFT) liquid crystal display to provide superior display performance. A maximum resolution of 1280 x 1024 is ideal for displaying complex graphics and high definition images. Other outstanding designs that enhance this LCD monitor's performance are Plug & Play compatibility and OSD (On Screen Display) controls.

B. Features

- High contrast color TFT LCD display support resolution up to 1280 x 1024.
- Advanced OSD control for picture quality adjustment.
- Detachable stand for wall-mounting application.
- Optional Composite and S-Video input
- Slim and compact size
- Wide Viewing Angle

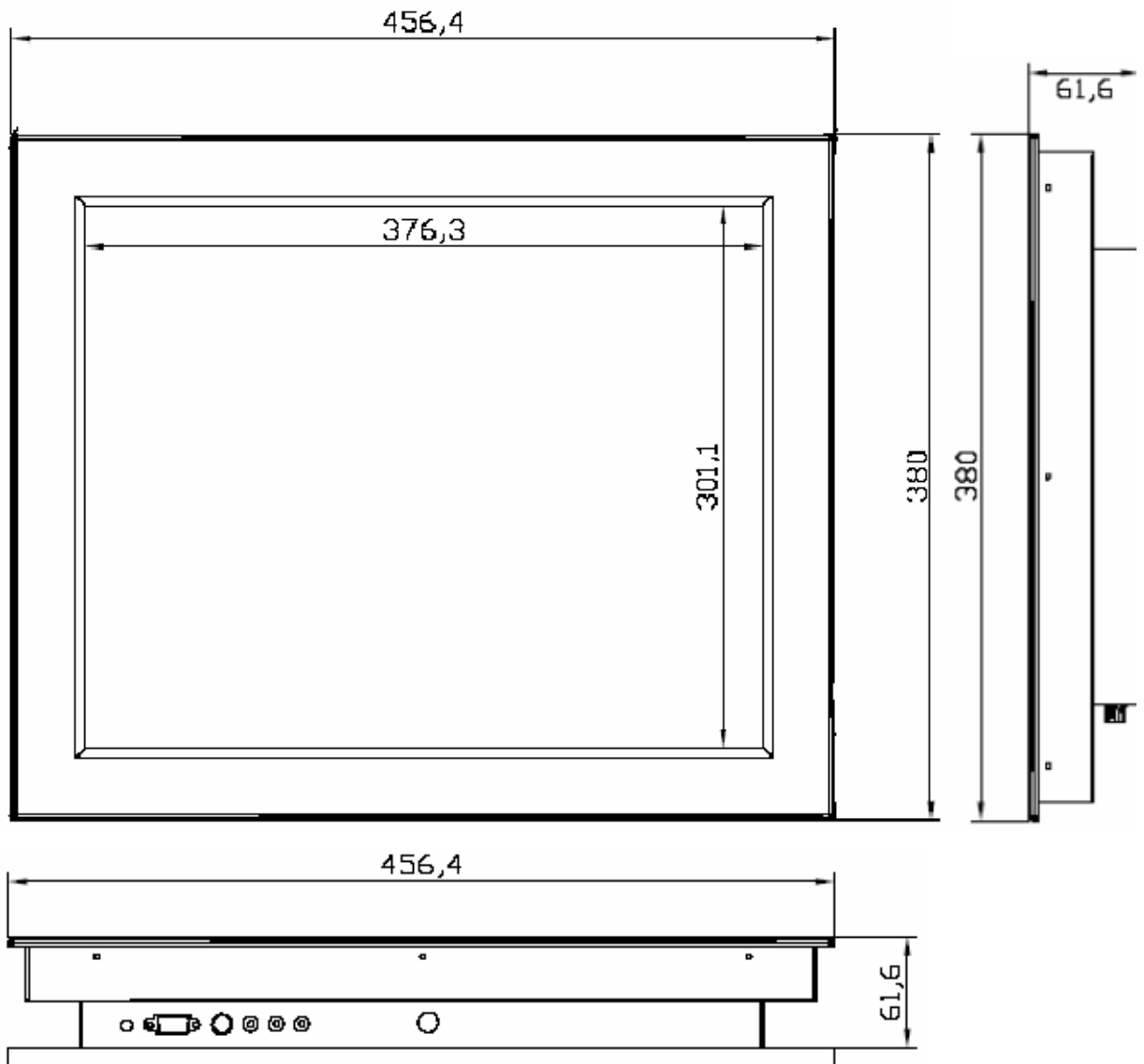
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2. Introduction

C. Dimension Diagrams

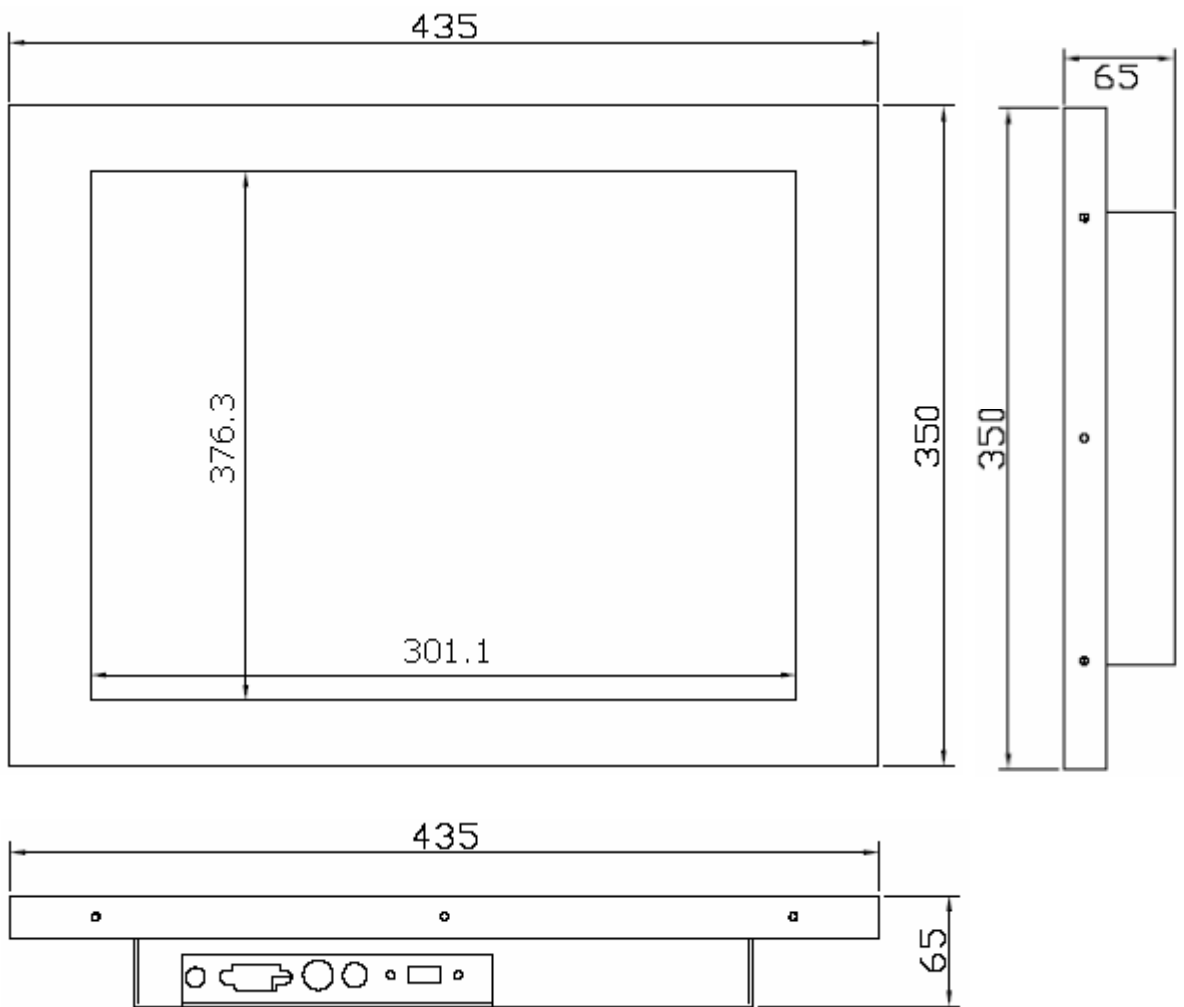
AP-19AV series



2. Introduction

C. Dimension Diagrams

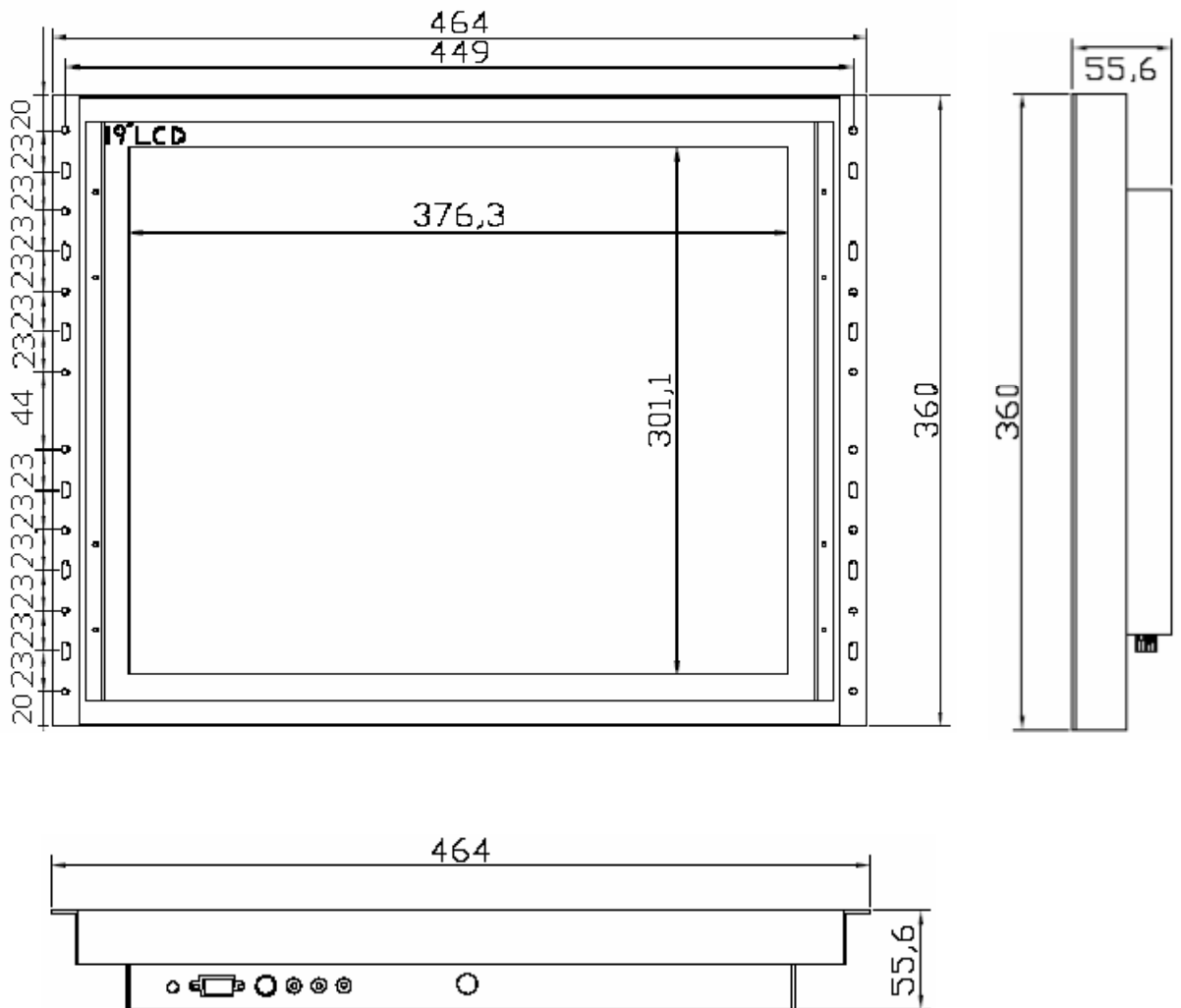
DP-19AV series



2. Introduction

C. Dimension Diagrams

OP-19AV series



2. Introduction

Technical Specifications

Monitor	Panel	19" LCD Panel
	Display Type	TFT LCD active matrix colour
	Resolutions	1280 x 1024
	Response Time	Tr=15ms, Tf=10ms
	Contrast Ratio	700:1 typical
	Brightness	250 cd/m ² typical
	Pixel Pitch	0.294(H) x 0.294(V)
	Panel Colour	16.7M display colour
	Viewing Angle	89 / 89 / 89 / 89 (L / R / U / D)
	Storage Temp.	-20° to 65°C
	Operating Temp.	0° to 50°C
	MTBF	50,000 hours
Power Supply	Remote Adapter	110V - 220V AC Input
	Adapter Size	108(L) x 64 (W) x 30(D) mm
	Cable Length from mains plug to adapter	182cm
	Cable Length from adapter Unit	180cm
	Power Socket	12V (+) female
Connectors	VGA	HDDDB 15-pin (female) x 1
Video	Standards	Supports NTSC, PAL or SECAM
Product Dimension	AP Series : 456(W) x 380(H) x 62(D) mm DP Series : 435(W) x 350(H) x 65(D) mm OP Series : 464(W) x 360(H) x 56(D) mm	
Packing Dimension	AP / DP / OP Series : 630(L) x 550(W) x 110(H) mm	
Net / Gross Weight	AP Series : 6.5 / 8.5 Kg DP Series : 6 / 8 Kg OP Series : 5.5 / 7.5 Kg	

3. Installation

A. Package Contents

After unpacking the carton, check and see if the following items are included in good condition. Contact your supplier as soon as possible for replacing the missing / damaged items.

- 19" TFT LCD monitor
- RCA Cable (For AV Version Only)
- S-Video Cable (For AV Version Only)
- VGA Cable (Male to Male)
- DC 12V Adapter
- Power Cord
- Mounting Bracket (AP Series only)
- User Manual
- CD Disc

B. Caution to The User

To assure continued FCC compliance, please use grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable is going to be used, use only a shielded BNC (5) cable. Also, The Federal Communications Commission warns the user that any unauthorized changes or modifications to the unit if not expressly approved by the party responsible for compliance could void the user's authority of operating the equipment.

C. Cleaning

1. Gently wipe screen with a clean camel hair lens brush, or a soft, clean, lint-free cloth. This removes dust and other particles that can scratch the screen.
2. Do not apply excessive pressure to the screen surface when wiping it clean because this may damage the LCD.
3. Do not pour or spray any liquid directly onto the screen or case of the LCD monitor. Chemical cleaners have been reported to damage the screen or case of the LCD monitor.

3. Installation

D. Precautions

Read all of these instructions and save them for later use. Follow all warnings and instructions on the product.

Product

- Do not cover or block the vent holes in the case.
- Do not insert sharp objects or spill liquid into the LCD monitor through cabinet slots. They may cause accident fire, electric shock or failure.
- Disconnect the power plug from the AC outlet if you will not use it for an indefinite period of time.
- Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks.
- Do not touch the screen directly with your fingers. You may damage the screen, and oil from your skin is difficult to move.
- Do not apply pressure to screen. The LCD is very delicate.

Power

1. Use the type of power indicated on the marking label.

Plugs

1. Do not remove any of the prongs of the monitor's three-pronged power plug.
2. Disconnect the power plug from the AC outlet under following conditions :
 - If the product will not be used for an indefinite period time.
 - When the power cord or plug is damaged or frayed.
 - If the product does not operate normally when the operating instructions are followed.
 - Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - If the product has been dropped or the cabinet has been damaged.
 - If the product exhibits a distinct change in performance, indicating a need for service.

3. Installation

D. Precautions (Cont.)

Power and extension cords

1. Do not allow anything to rest on the power cord.
2. Do not locate this product where persons will walk on the cord.
3. Use the proper power cord with correct attachment plug type. If the power source is 120V AC, use a power cord that has UL and C-UL approvals. If the power source is a 240V AC supply, use the tandem (T blade) type attachment plug with ground conductor power cord that meets the respective European country's safety regulations, such as VDE for Germany.
4. Do not overload wall outlets or power cords. Ensure that the total of all units plugged into the wall outlet does not exceed 10 amperes.
5. Ensure that the total ampere ratings on all units plugged into the extension cord is not above the cord's rating.
6. If the power supply cord, which came with your monitor, is to be connected to the PC instead of the wall outlet, this equipment is to be used with UL/TÜV approved computers with receptacle rated 100~240V AC, 50/60Hz, 1.0A(minimum).

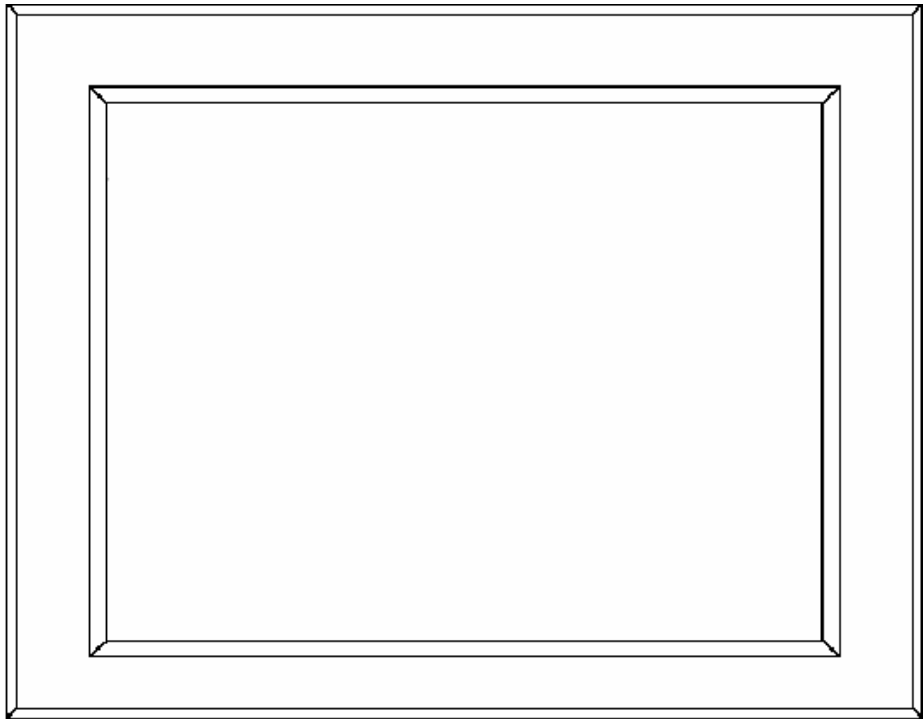
Environment

1. Place the monitor on a flat and leveled surface.
2. Place the monitor in a well-ventilated place.
3. Keep the monitor away from : Overly hot, cold or humid places, places directly under sunlight, dusty surroundings, equipment that generate strong magnetic fields.

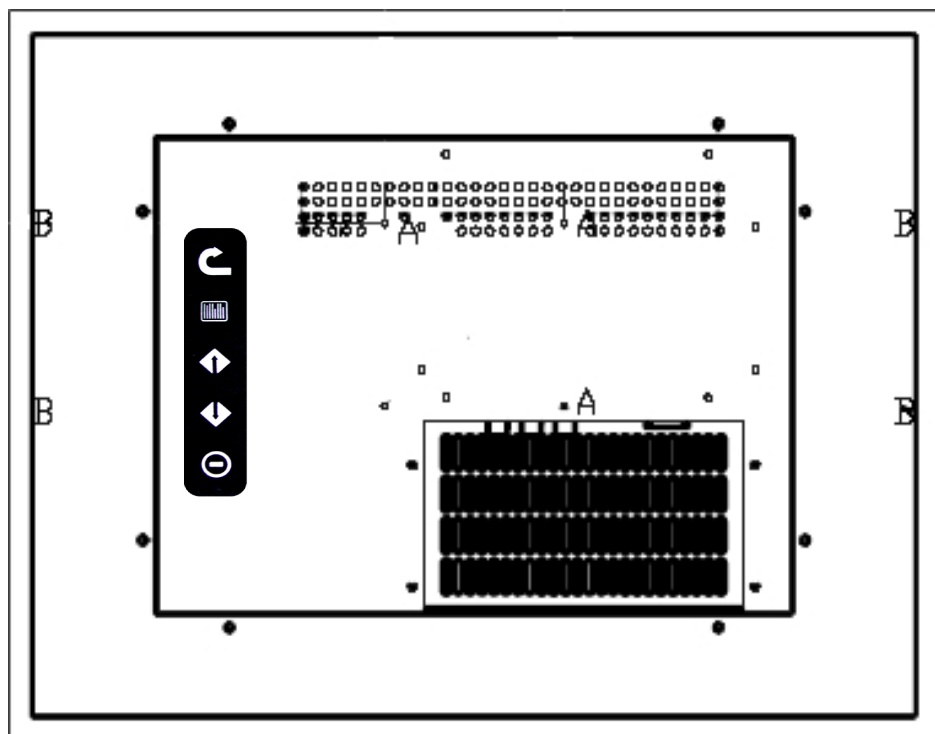
4. Using the System

A. Product Views

AP Series - Front View



AP Series - Rear View



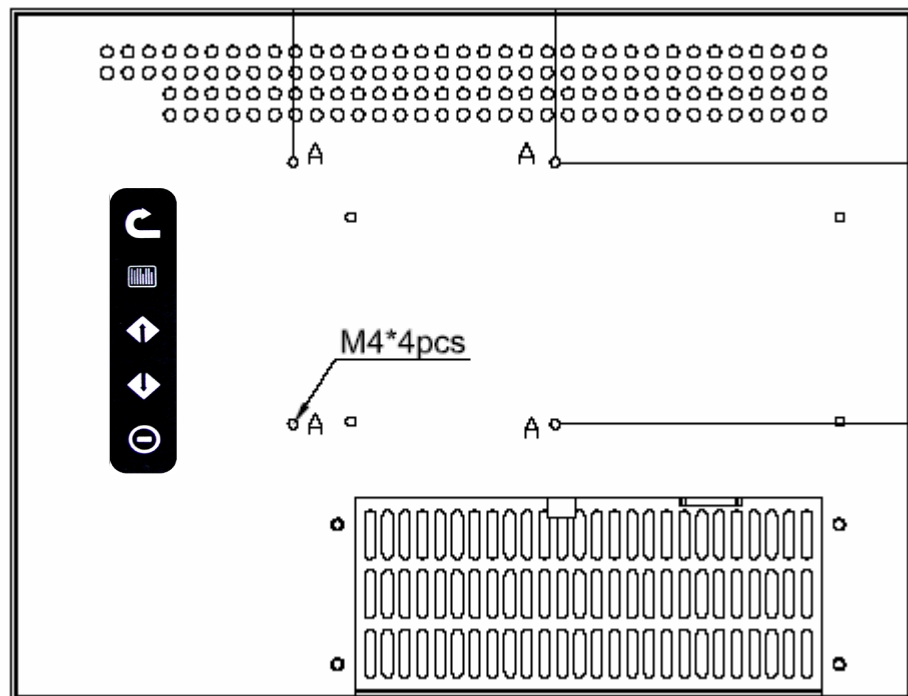
4. Using the System

A. Product Views (Cont.)

DP Series - Front View



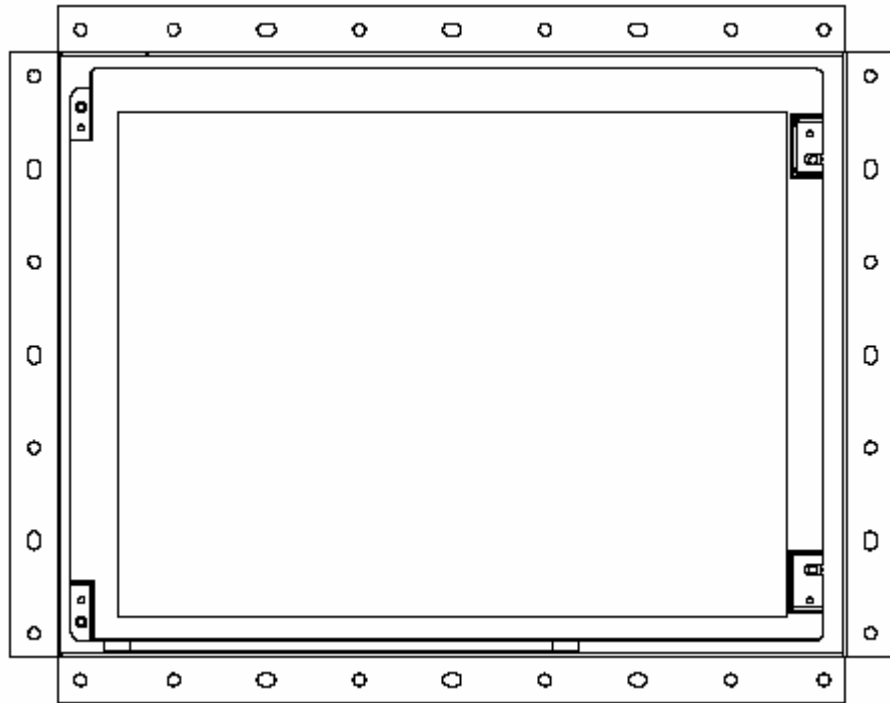
DP Series - Rear View



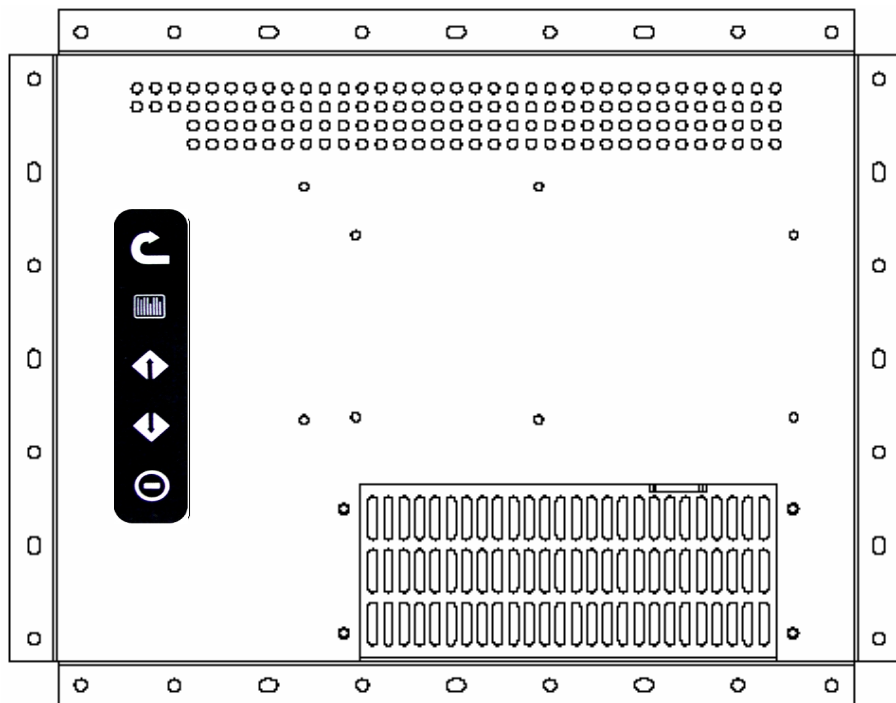
4. Using the System

A. Product Views (Cont.)

OP Series - Front View

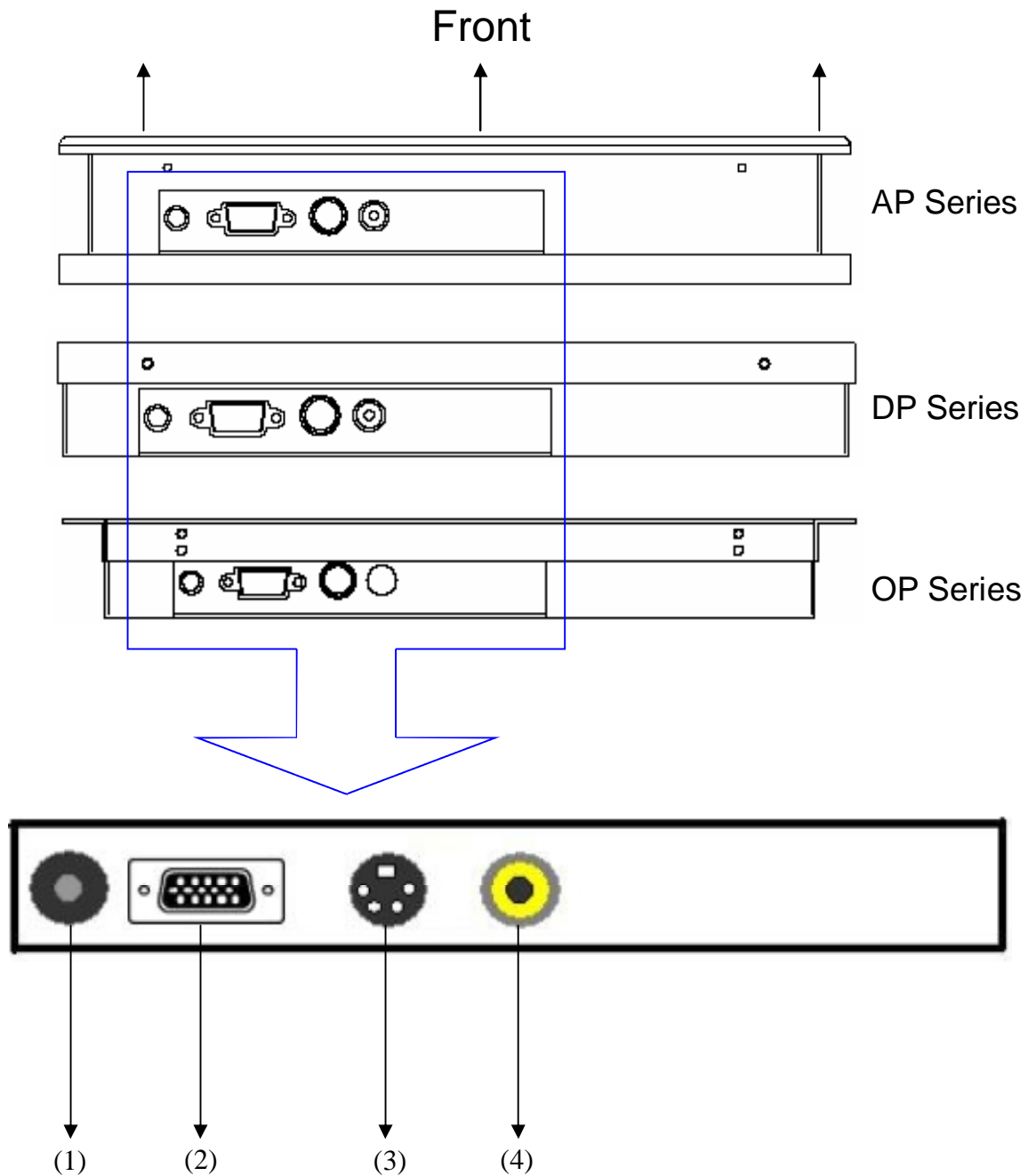


OP Series - Rear View



4. Using the System

B. I/O Outlet



- (1) **DC IN** : Connect to power cable.
- (2) **PC IN** : Connect to D-Sub 15 pin signal connector.
- (3) **S-Video IN** : Connect to the S-Video cable connector. (for AV series only)
- (4) **RCA IN** : Connect to the composite cable connector. (for AV series only)

4. Using the System

C. Installation Procedures

This monitor is equipped with an auto-sensing power supply for voltage ranges 100~240V, 50~60Hz. Please follow the following instruction to install LCD monitor.

1. Make sure that the system power is turned off.
2. Plug the signal cable to the signal connector at the rear of PC and the rear of the LCD monitor.
3. Plug adapter output cable to the jack at the rear of LCD monitor and the power cord to the adapter.
4. Connect the power cord to power source.
5. Turn on the computer and the monitor.
6. Then push the OSD menu button and use the Auto Adjust function to fine the best mode of your computer.

4. Using the System

D. Setup Touchscreen

Touchscreen used for UltraView products are manufactured by 3M. Here provide TouchWare™ Software includes touch screen drivers for your installing.

Note: To configure the settings of the touchscreen, please refer to the TouchWare™ User Guideline

Note: If you have a Microsoft® IntelliPoint® or Kensington® Mousework® PS/2 mouse, installing TouchWare™ software will disable the special mouse functionality of these devices

For Windows 95, 98, Me, NT4.0, 2000 & XP

1. Open the driver CD provided along with the product or download the driver from our Website.
2. Make sure you have completed the appropriate hardware connections.
3. Power on your system. Make sure no other application are opened.
4. Double click the “**TW564SR4.exe**” files.
5. Unzip the file and save it in a default folder

Note: Remember the path of the default folder or create a new folder by your decision.

6. Follow the onscreen instructions to begin the installation.

Note: Choose Express option for automatically installs the required TouchWare™ software files, create a TouchWare™ software program files, and place a TouchWare™ software icon on the Windows desktop and control panel. TouchWare™ will also determine multiple monitor configurations at this time.

Note: For details of Custom option, please refer to the website of 3M and download the user guide of TouchWare™ software.
([http:// www.3m.com/3MTouchSystems/downloads/tecdoc.jhtml](http://www.3m.com/3MTouchSystems/downloads/tecdoc.jhtml))

4. Using the System

D. Setup Touchscreen

For Windows 95, 98, Me, NT4.0, 2000 & XP (Cont.)

7. Once installation is complete, restart the system. As the system restarts, Windows detects and loads the driver.
 - For serial controllers, restart the system. As the system restarts, Windows detects and load the driver

Note: This step is not necessary for Windows 2000 or above system, The driver loads automatically.

- For USB controllers, connect the touch screen cable to the USB port in your computer. After a few seconds, the system beeps to indicate it has detected the touch screen and loaded the driver.

For DOS

When you install Touchware from DOS, the Install program only loads the touchscreen files specific to DOS. The installation includes the following files:

- Touchscreen driver for DOS
- Touchscreen control panel for DOS
- Pen Configuration utility for DOS
- Microcal Diagnostic utility
- ThruGlass control panel for DOS
- DOS help files

If you do not plan to use any of the touchscreen files for windows, you may want to install just the DOS touchscreen files.

1. Open the driver CD provided along with the product or download the driver from our Website.
2. Make sure you have completed the appropriate hardware connections. If not, the Install program cannot properly configure the touchscreen.
3. Close all applications and exit from Windows.
4. Insert the TouchWare Disk into a diskette drive.
5. Access the DOS command line prompt.
6. Change to the drive that has the TouchWare diskette. For example, enter **A:** if you inserted the TouchWare diskette in Drive A.

4. Using the System

D. Setup Touchscreen

For DOS (Cont.)

7. Type INSTALL followed by the source disk drive, the destination drive, and the destination directory.

For example, the following command copies the files from Drive A (source drive) to Drive C (destination drive) and the \MTS\TOUCH directory :

INSTALL A: C:\MTS\TOUCH

8. Press Enter. The system reports that it is about to copy the DOS touchscreen files and prompt for confirmation that you want to continue.
9. Press **C** to start the installation.
 - First, the Install program copies all DOS touchscreen files from the TouchWare diskette to the specified destination drive and directory.
 - Next, the Install program automatically searched through the system and configures the touchscreen to the proper COM port, interrupt, and communication rate.
 - Finally, the Install program prompts if you want it to automatically modify your AUTOEXEC.BAT file

If you let the Install program modify your AUTOEXEC.BAT file, the system automatically loads the DOS touchscreen driver whenever you start your computer.

If you do not let the Install program modify your AUTOEXEC.BAT file, you must load the DOS touchscreen driver before using a DOS touch application. For more information, refer to “Loading the DOS Touchscreen Driver” in the next page

4. Using the System

D. Setup Touchscreen

For DOS (Cont.)

Loading the DOS Touchscreen Driver

After you install the files for the DOS touchscreen driver, you must load the driver before you can run a DOS touch application or open the DOS Touchscreen control panel.

You can run the DOS touchscreen driver from a full-screen DOS session within Windows. However, the Windows touchscreen driver cannot be running. Error message reads: "Windows x.x is running in 386 Enhanced mode. Device not found."

This means either the Windows Touchscreen driver is loaded or the COM port/IRQ designations are incorrect.

You can manually load the DOS touchscreen driver when needed, or you can let the system automatically load the driver when you start up your computer.

- To manually load the DOS touchscreen driver:
 1. Close all applications and exit from Windows.
 2. Access the DOS command line prompt.
 3. Use the Change Directory (cd) command to switch to the directory that has the DOS touch driver files. By default, the Install program loads TouchWare into the C:\MTS\TOUCH directory.
 4. Type DOSTOUCH and then press Enter. The system displays a message that the driver is now installed. For example:

```
MicroTouch Mouse Emulator - Version x.x
Copyright © 1990 - 1997 MicroTouch Systems, Inc.
Driver Installed
```

- To automatically load the DOS touchscreen driver when you start up your computer, add the following line to your AUTOEXEC.BAT file :

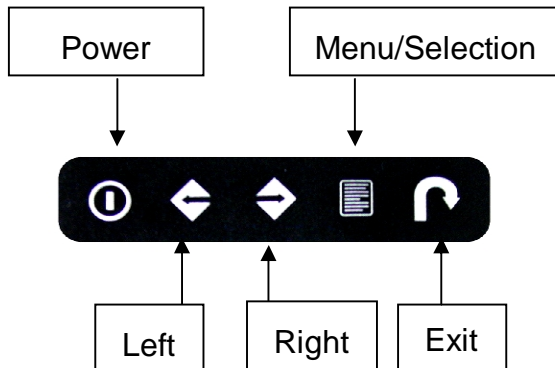
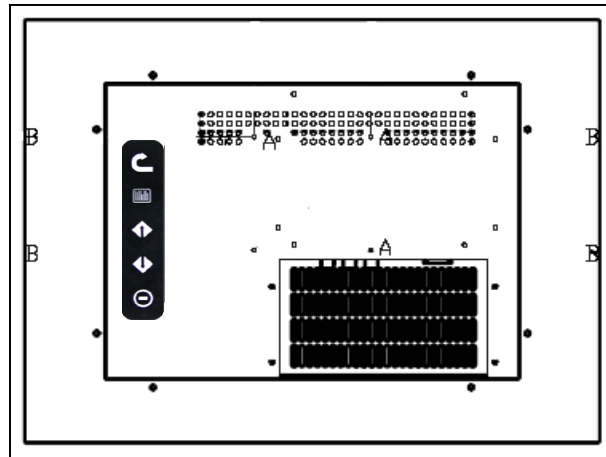
```
drive-designator :\directory\DOSTOUCH
```


where drive-designator and directory define the location (disk and path) of the files for the DOS touchscreen. For example:


```
C:\MTS\TOUCH\DOSTOUCH
```


4. Using the System


E. OSD Switch




- 
Input Select: This button is used to select CVBS for composite video input, RGB for VGA input and S-Video for Super-Video input

- 
OSD Menu: This button is used to enter OSD main Menu

- 
Increase(↷): This button is used to adjust the increasing or next value of selected OSD control option.

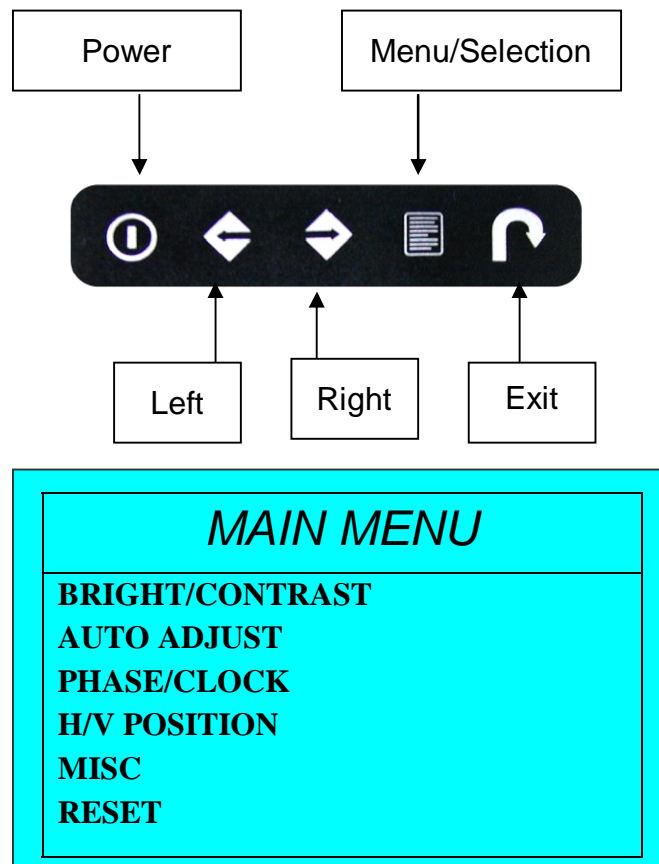
- 
Decrease(↶): This button is used to adjust the decreasing or next value of selected OSD control option.

- 
Power Switch: This button is used to power ON/OFF the LCD

4. Using the System

F. OSD Control For Video Input Version

LCD Membrane Diagram



Main Menu

Bright / Contrast

- To enter into the Bright, Black level & Contrast sub-menu

Auto Adjust

- To perform automatic optimisations of all functions
- An " Adjusting" message is displayed during the process

Phase / Clock

- To enter into the phase & clock sub menu

H/V Position

- To enter into the Position sub-menu

MISC

- To enter into the MISC sub-menu

Reset


- Reset to the default factory settings

4. Using the System


F. OSD Control For Video Input Version

Bright / Contrast

1. Brightness


- To perform brightness adjustment of the input RGB signal
- Use the Left & Right button to adjust and button  to “Brightness”

2. Contrast


- To adjust the contrast level of the input signal
- Use the Left & Right button to adjust and button  to “Contrast”

Phase / Clock

1. Phase


- To adjust input video sampling clock's phase
- Use the Left & Right button to adjust and button  to “Phase”

2. Clock


- To adjust input video sampling clock
- Use the Left & Right button to adjust and button  to “Clock”

H/V Position

1. H.Position

- To adjust the horizontal size of the frame
- Use the Left & Right button to adjust and button  to “H.position”.

2. V.Position

- To adjust the vertical position of the frame
- Use the Left & Right button to adjust and button  to “V.position”.

4. Using the System

F. OSD Control For Video Input Version

MISC

1. Information

- The first header row shows the current resolution setup
- The second header row shows the horizontal frequency of the current input signal
- The third header row shows the vertical frequency of the current input signal

2. OSD Timer

- To modify the duration of the OSD time-out

3. Color

a) 5500K

- Select Colour Temp at 5500K

b) 6500K

- Select Colour Temp at 6500K

c) 9500K

- Select Colour Temp at 9500K

d) User

- Change Colour Temp by manual

4. Language

- To select the language of OSD menu 7 Languages :
 - (1) English
 - (2) Japanese (日本語)
 - (3) Chinese (中文)
 - (4) German
 - (5) Francais
 - (6) Espanol
 - (7) Italiano

4. Using the System

G. OSD Control For Video Input Version



Main Menu

Image

- To enter into the Brightness, Contrast, Sharpness, Saturation, Hue sub-menu

Geometry

- To enter into Auto Conflg., H. Position, V. Position, Clock, phase sub-menu

Function

- To enter into the OSD Position, OSD Zoom and Color Temp. sub-menu

System

- To enter into the Language, Time, Power OFF and Reset sub-menu.

4. Using the System


G. OSD Control For Video Input Version



Image


Brightness

To adjust brightness level of the input signal

Use the  button to select the function, then use t /u button to adjust from 0-100


Contrast

To adjust the contrast level of the input signal

Use the  button to select the function, then use t /u button to adjust from 0-100


Sharpness

To adjust the sharpness level of the input signal

Use the  button to select the function, then use t /u 'button to adjust from 0-35


Saturation

To adjust the saturation level of the input signal

Use the  button to select the function, then use t /u 'button to adjust from 0-100

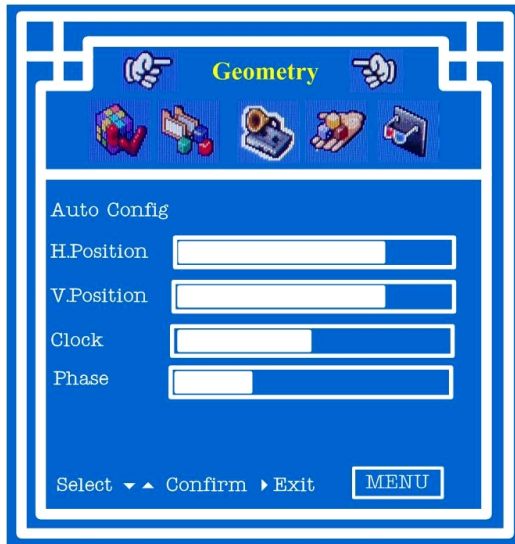
Hue

To adjust the Hue level of the input signal

Use the  button to select the function, then use t /u button to adjust from (-19)-0-(+19)

4. Using the System




G. OSD Control For Video Input Version



Geometry




Auto Config

To perform auto adjustment of the screen output.

Use the  button to select the function, then use the  /  button to select "Auto Config".




H. Position

To adjust Horizontal Position of the screen output.

Use the  button to select the function, then use the  /  button to adjust "H. Position".




V. Position

To adjust Vertical Position of the screen output.

Use the  button to select the function, then use the  /  button to adjust "V. Position".




Clock

To adjust the width of the image

Use the  button to select the function, then use the  /  button to adjust "Clock".

Phase

To perform snow noise adjustment of the image.

Use the  button to select the function, then use the  /  button to adjust "Phase".

4. Using the System


G. OSD Control For Video Input Version



Function


OSD Position

To perform OSD position selection of the screen

Use the  button to select the function, then use the t /u button to select the digit for the OSD display region.


OSD Zoom

To perform OSD Zoom function of the OSD image

Use the  button to select the function, then use the t /u button to on/off the OSD Zoom function

Color Temp.

To perform the Color Temperature selection of the image output

Use the  button to select the function, then use the t /u ' button to select " Standard", "Cool", "Warm" and "User"

4. Using the System


G. OSD Control For Video Input Version



System


Language

To perform Language selection of the function display

Use the  button to select the function, then use the \uparrow / \downarrow button to select suitable display language “English”, “Chinese (中文)”, “Deutsch”, “Francais”, “Español”, “Italiano” and “Japanese (日本語)”.


Time

To perform time setting of the system.

Use the  button to select the function, then input the time setting and restore

Power OFF

To perform preset power off setting

Use the  button to select the function, then input time setting and use \uparrow / \downarrow button to on/off the function.

Reset

To perform reset all stored parameters to factory preset mode

Use the  button to select the function, then use \uparrow / \downarrow button activate the function.