NEXCOM International Co., Ltd.

Industrial Computing Solutions

Applied Panel Display
APPD 1700T

User Manual

NEXCOM International Co., Ltd.
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www.nexcom.com

Contents

Preface

Copyright iii
Disclaimer iii
Acknowledgements iii
Regulatory Compliance Statements iii
Declaration of Conformity iii
RoHS Compliance iv
Warranty and RMA v
Safety Information vii
Installation Recommendations vii
Safety Precautions viii
Technical Support and Assistance ix
Conventions Used in this Manual ix
Global Service Contact Information x
Package Contents xiii
Ordering Information xiv

Chapter 1: Product Introduction

Overview 1
Key Features 1
Specifications 2
Knowing Your APPD 1700T 3
- Front Top 3
- Front Top view in detail 3
- Rear Bottom 4
- Rear Bottom view in detail 4
- Rear 5

Mechanical Dimensions 6

Chapter 2: Connector Pin Definitions

External I/O Interfaces 7
- USB Port 7
- COM Port 7
- DVI Port (DVI-D) 8
- VGA Port 8
- 12 – 24V DC Input 9

Chapter 3: System Setup

Panel Mounting 10

Chapter 4: Adjusting the Display

OSD Menu Functions 12

Chapter 5: Touch Driver Settings 28

Appendix A: Power Consumption 29

Appendix B: Extended Display Identification Data Timing Support 30

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PREFACE

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Acknowledgements

APPD 1700T is a trademark of NEXCOM International Co., Ltd. All other product names mentioned herein are registered trademarks of their respective owners.

Regulatory Compliance Statements

This section provides the FCC compliance statement for Class B devices and describes how to keep the system CE compliant.

Declaration of Conformity

FCC

This equipment has been tested and verified to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area (domestic environment) is likely to cause harmful interference, in which case the user will be required to correct the interference (take adequate measures) at their own expense.

CE

The product(s) described in this manual complies with all applicable European Union (CE) directives if it has a CE marking. For computer systems to remain CE compliant, only CE-compliant parts may be used. Maintaining CE compliance also requires proper cable and cabling techniques.

RoHS Compliance

NEXCOM RoHS Environmental Policy and Status Update

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RoHS restricts the use of Lead (Pb) < 0.1% or 1,000ppm, Mercury (Hg) < 0.1% or 1,000ppm, Cadmium (Cd) < 0.01% or 100ppm, Hexavalent Chromium (Cr6+) < 0.1% or 1,000ppm, Polybrominated biphenyls (PBB) < 0.1% or 1,000ppm, and Polybrominated diphenyl Ethers (PBDE) < 0.1% or 1,000ppm.

In order to meet the RoHS compliant directives, NEXCOM has established an engineering and manufacturing task force to implement the introduction of green products. The task force will ensure that we follow the standard NEXCOM development procedure and that all the new RoHS components and new manufacturing processes maintain the highest industry quality levels for which NEXCOM are renowned.

The model selection criteria will be based on market demand. Vendors and suppliers will ensure that all designed components will be RoHS compliant.

How to recognize NEXCOM RoHS Products?

For existing products where there are non-RoHS and RoHS versions, the suffix "(LF)" will be added to the compliant product name.

All new product models launched after January 2006 will be RoHS compliant. They will use the usual NEXCOM naming convention.

Warranty and RMA

NEXCOM Warranty Period

NEXCOM manufactures products that are new or equivalent to new in accordance with industry standard. NEXCOM warrants that products will be free from defect in material and workmanship for 2 years, beginning on the date of invoice by NEXCOM. HCP series products (Blade Server) which are manufactured by NEXCOM are covered by a three year warranty period.

NEXCOM Return Merchandise Authorization (RMA)

- Customers shall enclose the "NEXCOM RMA Service Form" with the returned packages.
- Customers must collect all the information about the problems encountered and note anything abnormal or, print out any on-screen messages, and describe the problems on the "NEXCOM RMA Service Form" for the RMA number apply process.
- Customers can send back the faulty products with or without accessories (manuals, cable, etc.) and any components from the card, such as CPU and RAM. If the components were suspected as part of the problems, please note clearly which components are included. Otherwise, NEXCOM is not responsible for the devices/parts.
- Customers are responsible for the safe packaging of defective products, making sure it is durable enough to be resistant against further damage and deterioration during transportation. In case of damages occurred during transportation, the repair is treated as "Out of Warranty."
- Any products returned by NEXCOM to other locations besides the customers' site will bear an extra charge and will be billed to the customer.

Repair Service Charges for Out-of-Warranty Products

NEXCOM will charge for out-of-warranty products in two categories, one is basic diagnostic fee and another is component (product) fee.

Repair Service Charges for Out-of-Warranty Products

NEXCOM will charge for out-of-warranty products in two categories, one is basic diagnostic fee and another is component (product) fee.

System Level

- Component fee: NEXCOM will only charge for main components such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistor, capacitor.
- Items will be replaced with NEXCOM products if the original one cannot be repaired. Ex: motherboard, power supply, etc.
- Replace with 3rd party products if needed.
- If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.

Board Level

- Component fee: NEXCOM will only charge for main components, such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistors, capacitors.
- If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.

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Warnings

Read and adhere to all warnings, cautions, and notices in this guide and the documentation supplied with the chassis, power supply, and accessory modules. If the instructions for the chassis and power supply are inconsistent with these instructions or the instructions for accessory modules, contact the supplier to find out how you can ensure that your computer meets safety and regulatory requirements.

Cautions

Electrostatic discharge (ESD) can damage system components. Do the described procedures only at an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an antistatic wrist strap and attaching it to a metal part of the computer chassis.

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Safety Information

Before installing and using the device, note the following precautions:

- Read all instructions carefully.
- Do not place the unit on an unstable surface, cart, or stand.
- Follow all warnings and cautions in this manual.
- When replacing parts, ensure that your service technician uses parts specified by the manufacturer.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- The load of the system unit does not solely rely for support from the rackmounts located on the sides. Firm support from the bottom is highly necessary in order to provide balance stability.
- The computer is provided with a battery-powered real-time clock circuit. There is a 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.

Installation Recommendations

Ensure you have a stable, clean working environment. Dust and dirt can get into components and cause a malfunction. Use containers to keep small components separated.

Adequate lighting and proper tools can prevent you from accidentally damaging the internal components. Most of the procedures that follow require only a few simple tools, including the following:

- A Philips screwdriver
- A flat-tipped screwdriver
- A grounding strap
- An anti-static pad

Using your fingers can disconnect most of the connections. It is recommended that you do not use needle-nose pliers to disconnect connections as these can damage the soft metal or plastic parts of the connectors.

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Safety Precautions

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 stable surface during installation. Dropping it or letting it fall may cause damage.

7. The openings on the enclosure are for air convection to 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. Place the power cord in a way so that people will not step on it. Do not place anything on top of the power cord. Use a power cord that has been approved for use with the product and that it matches the voltage and current marked on the product's electrical range label. The voltage and current rating of the cord must be greater than the voltage and current rating marked on the product.

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:
    a. The power cord or plug is damaged.
    b. Liquid has penetrated into the equipment.
    c. The equipment has been exposed to moisture.
    d. The equipment does not work well, or you cannot get it to work according to the user's manual.
    e. The equipment has been dropped and damaged.
    f. The equipment has obvious signs of breakage.

15. Do not place heavy objects on the equipment.

16. The unit uses a three-wire ground cable which is equipped with a third pin to ground the unit and prevent electric shock. Do not defeat the purpose of this pin. If your outlet does not support this kind of plug, contact your electrician to replace your obsolete outlet.

17. 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.

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Technical Support and Assistance

1. For the most updated information of NEXCOM products, visit NEXCOM's website at www.nexcom.com.

2. For technical issues that require contacting our technical support team or sales representative, please have the following information ready before calling:
   - Product name and serial number
   - Detailed information of the peripheral devices
   - Detailed information of the installed software (operating system, version, application software, etc.)
   - A complete description of the problem
   - The exact wordings of the error messages

Warning!

1. Handling the unit: carry the unit with both hands and handle it with care.

2. Maintenance: to keep the unit clean, use only approved cleaning products or clean with a dry cloth.

3. CompactFlash: Turn off the unit's power before inserting or removing a CompactFlash storage card.

Conventions Used in this Manual

Warning:
Information about certain situations, which if not observed, can cause personal injury. This will prevent injury to yourself when performing a task.

Caution:
Information to avoid damaging components or losing data.

Note:
Provides additional information to complete a task easily.

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Package Contents

Before continuing, verify that the package you received is complete. Your package should have all the items listed in the table.

APPD1700T

Item	Description	Qty
1	Panel Mount Kit	12
2	Driver CD	1
3	Touch Pen	1
4	VGA Cable (1.8m)	1
5	USB Cable (1.8m)	1
6	Serial Cable (1.8m)	1
7	Terminal blocks 3-pin Phoenix Contact Plug	1

Panel Mount Kit

Driver CD

Touch Pen

Terminal blocks 3-pin Phoenix Contact Plug

VGA Cable

USB Cable

Serial Cable

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Ordering Information

The following provides ordering information for APPD 1700T.

Barebone

APPD 1700T (P/N: 10IAD170000X0)

17" IP65 industrial 4:3 LCD flush touch monitor with VGA and DVI-D input, 12~24V DC input, RS-232 and USB touch screen.

Options

12V, 60W AC/DC power adapter w/o power cord (P/N: 7400060011X00)

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Chapter 1: Product Introduction

Overview

Key Features

- IP65 compliant plastic front bezel with flush panel by 5-wire touch screen
- Dual display input interface: analog VGA and DVI-D
- Dual touch interface: RS-232 and USB
- Ultra slim depth
- Multilanguage OSD function

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Specifications

Panel

- LED Size: 17", 4:3
- Resolution: SXGA 1280x1024
- Luminance: 380cd/m^2
- Contrast ratio: 1000
- LCD color: 16.7M
- Viewing angle: 80(U), 80(D), 85(L), 85(R)
- Backlight: CCFL
- Touch screen: 5-wire resistive (flush panel type)
- Touch light transmission: 81%
- Touch interface: USB and RS-232

Rear I/O

- Touch interface port: RS-232 (1x DB9) / USB Type A
- Video port: VGA (1x DB15) / DVI-D (1x DVI-I connector)
- DC power input connector: 3-Pin Phoenix terminal Blocks

OSD Function

- OSD keypad
- Multilanguage OSD

Mechanical & Environment

- Color: pantone black
- IP protection: IP65 front
- Mounting: panel/ wall/ stand/ VESA 100mm x 100mm
- Power input: 12V~ 24V DC
- Power adapter: optional AC to DC power adaptor (+12V, 60W)
- Vibration:
  IEC 68 2-64
  2Grms @sine, 5~500Hz, 1hr/axis (Operating)
  2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (Non-operating)
- Shock:
  IEC 68 2-27
  20G@wall mount, half sine, 11ms
  Operating temperature: -5°C to 50°C
  Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 410.4 x 340.4 x 43.7 mm
- Weight: 5.3 Kg

Certifications

- CE approval
- FCC Class B

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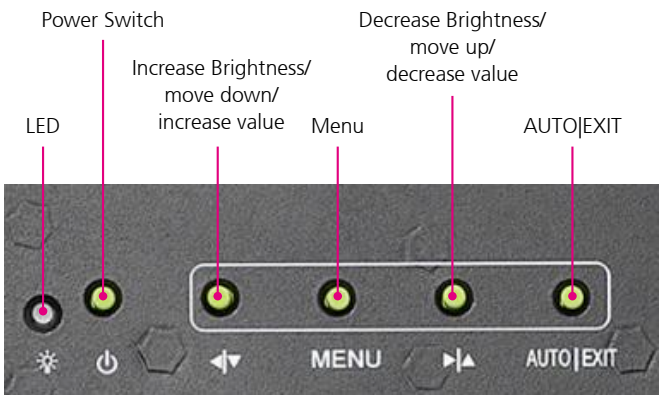
Knowing Your APPD 1700T

Front Top

Front Top view in detail



LED

Displays the power status of the display. Green LED indicates the display is switched on, if the display is not connected to a computer, the LED will flash red.

Power Switch

Press to power-on or power-off the display.

◂|▼

No OSD menu: Press to increase the brightness of the screen.
Inside OSD menu: Press to move the selection down in OSD menu.
Configuring options: Press to increase the value.

▸|▲

No OSD menu: Press to decrease the brightness of the screen.
Inside OSD menu: Press to move the selection up in OSD menu.
Configuring options: Press to decrease the value

OSD Menu

No OSD Menu: Press to load the OSD menu.
Inside OSD Menu: Press to select the highlighted option in OSD menu.

AUTO|EXIT

Press to exit the OSD menu, or return to main menu.

The OSD will exit automatically if there is no activity in 5 seconds. This timer can be adjusted in OSD menu (Default: On, 5 seconds).

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Rear Bottom

Touchscreen Connector (USB) (Optional)

This USB connector must be attached to the USB port of the PC. The touchscreen cable is included in accessory box.

Touchscreen Connector (DB-9) (Optional)

This RS-232 connector must be connected to the RS-232 port of the PC.

RS-232 & USB touchscreen interface does not allow connection into the system at the same time.

DVI Port (DVI-D)

Connected with a standard DVI connector through I/O port of this unit. Only supports digital signals.

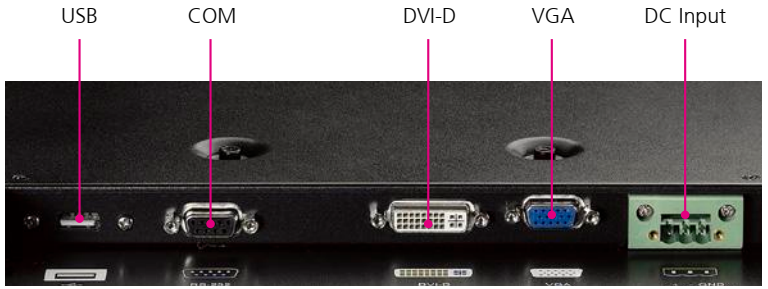
VGA Port (DB-15)

This DB-15 connector can be connected to the system.

12 – 24V DC Input

Terminal block socket used to plug a DC power cord.

Rear Bottom view in detail



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Rear

VESA Mounting Holes

These are mounting holes for VESA mount (100x100mm)

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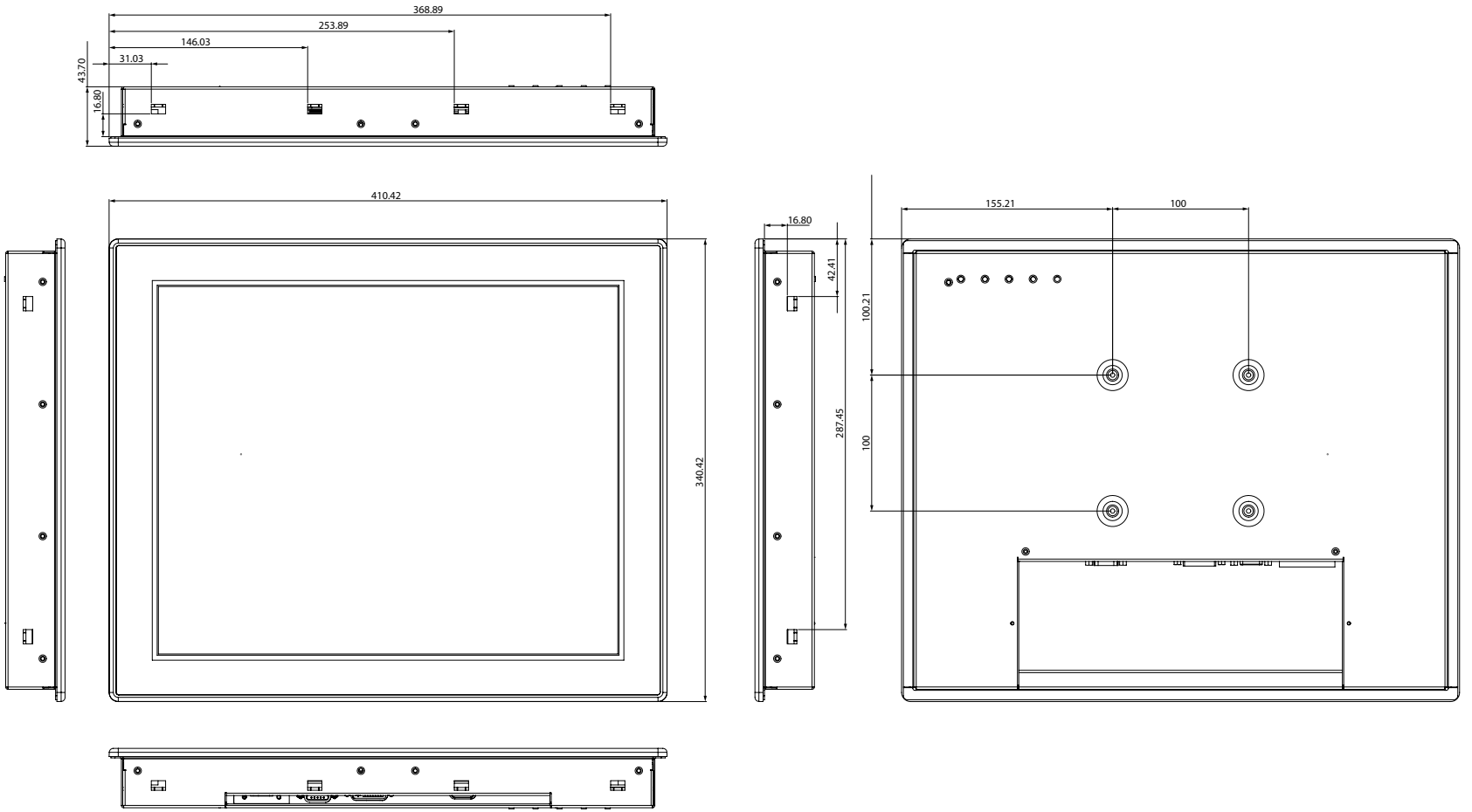
Mechanical Dimensions



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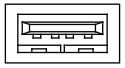
Chapter 2: Connector Pin Definitions

External I/O Interfaces

USB Port

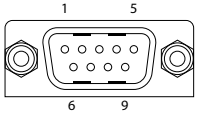
Connector type: USB port



Pin	Definition
1	VCC5
2	DATA_N
3	DATA_P
4	GND

COM Port

Connector type: DB-9 port



Pin	Definition	Pin	Definition
1	NC	2	RXD#: Receive Data
3	TXD: Transmit Data	4	NC
5	GND	6	NC
7	NC	8	NC
9	NC		

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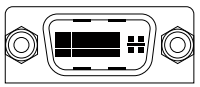
DVI Port (DVI-D)

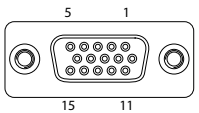
Connector type: 24-pin D-Sub, 2.0mm-M-180 (DVI)



Pin	Definition	Pin	Definition
1	TMDS Data 2-	2	TMDS Data 2+
3	Shield	4	NC
5	NC	6	DDC clock
7	DDC data	8	Reserved
9	TMDS Data 1-	10	TMDS Data 1+
11	Shield	12	NC
13	NC	14	+5V
15	GND	16	Hot plug detect
17	TMDS data 0-	18	TMDS data 0+
19	Shield	20	NC
21	NC	22	Shield
23	TMDS clock+	24	TMDS clock-
C1	NC	C2	NC
C3	NC	C4	NC
C5	NC		

VGA Port

Connector type: DB-9 port, 9-pin D-Sub (COM1)



Pin	Definition	Pin	Definition
1	RED	2	GREEN
3	BLUE	4	ID2
5	GND	6	RGND
7	GGND	8	BGND
9	KEY	10	SGND
11	ID0	12	SDA
13	HSYNC or CSYNC	14	VSYNC
15	SCL		

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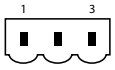
12 – 24V DC Input

Connector type: 3-pin Terminal Block



Pin	Definition
1	+
2	-
3	GND

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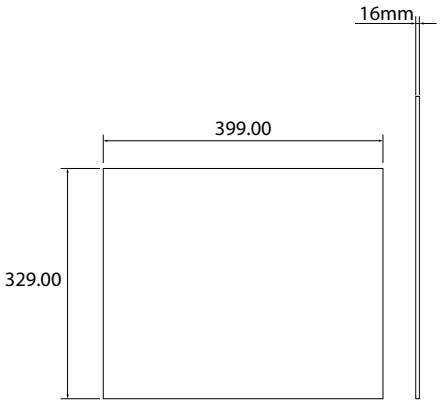
Chapter 3: System Setup

Panel Mounting

1. Select a place on the panel where you will mount the Industrial Touch Monitor.

2. Cut out a shape on the panel that corresponds to the Industrial Touch Monitor's rear dimensions.

   The thickness of the panel (e.g. steel board, plank, acrylic board, wall, etc.) where you will mount the Industrial Touch Monitor must not exceed 7mm. If the distance between the front bezel and panel mount hole is too wide, it will not fit the panel mount kit.

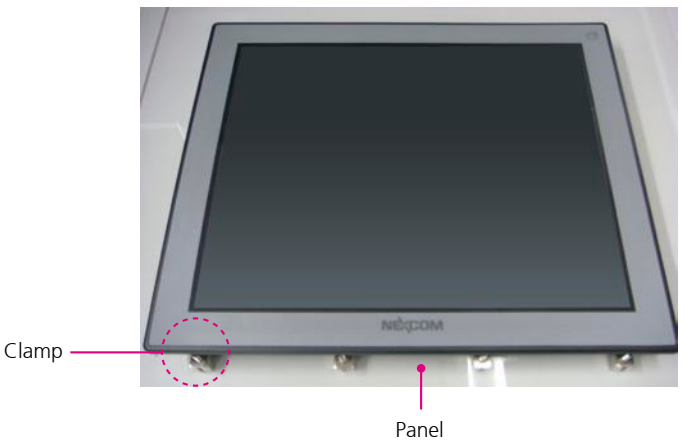


APPD 1700T

3. Slide the Industrial Touch Monitor through the hole until it is properly fitted against the panel.

4. Position the mounting clamps along the rear edges of the Industrial Touch Monitor. The first and second clamps must be positioned and secured diagonally prior to mounting the rest of the clamps. Tighten the clamp's screw until it touches the panel.

Do not overtighten the screws to prevent damaging the Panel PC.



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5. The illustration below shows all clamps properly mounted.

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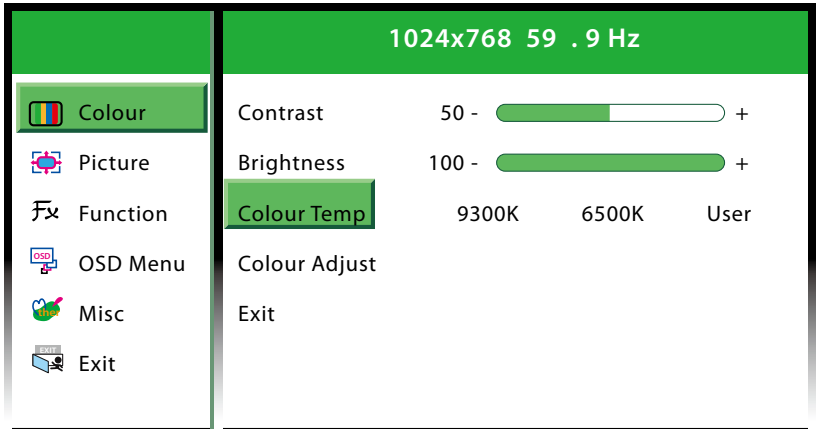
Chapter 4: Adjusting the Display

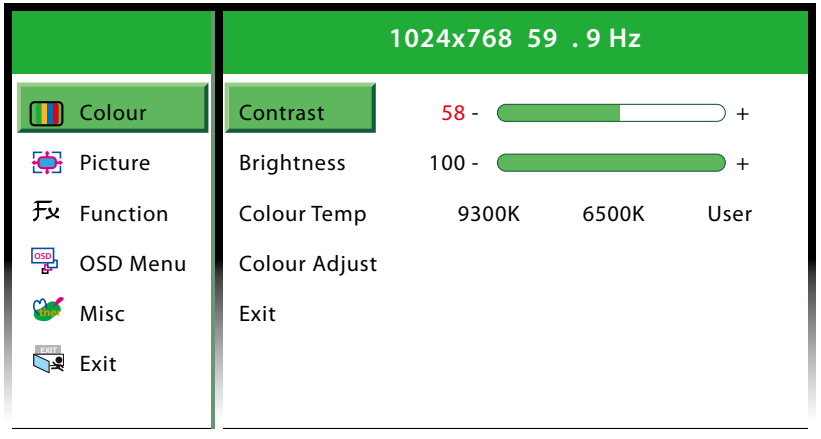
OSD Menu Functions

The On Screen Display (OSD) menu provides options to adjust the display. Press the MENU button on the back of the display panel to open the OSD menu. Refer to the images below for each OSD menu options.

1. Colour



Contrast



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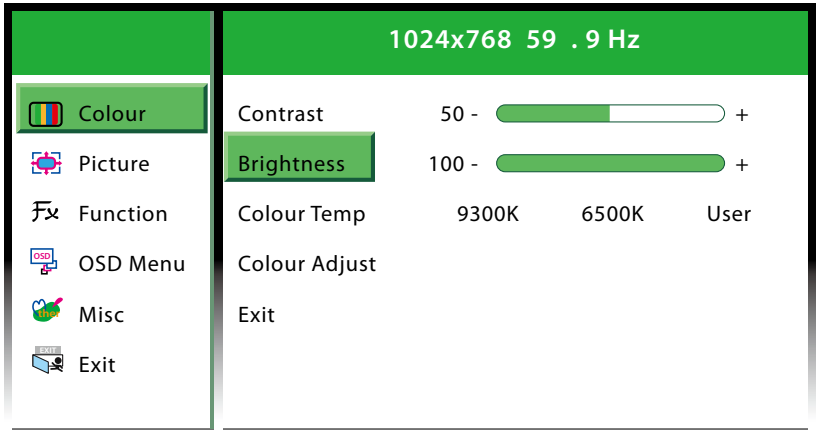
Brightness

MENU → colour → MENU → Brightness → MENU → ◁▽ to increase the brightness.

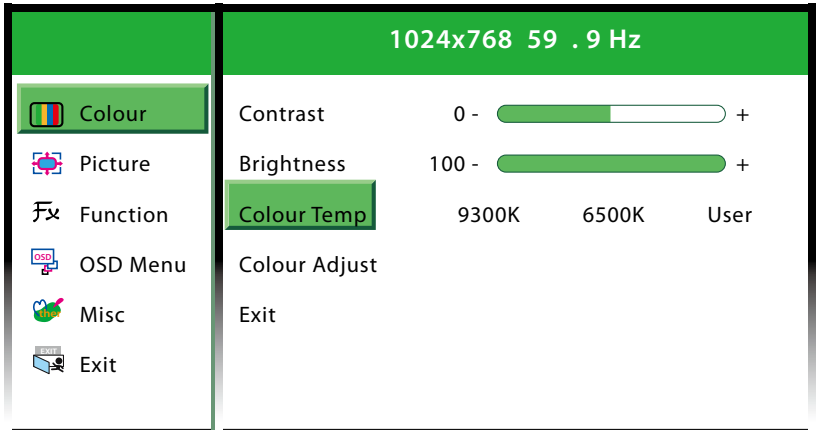
MENU → colour → MENU → Brightness → MENU → ▷△ to decrease the brightness.



Colour Temp

MENU → colour → MENU → contrast → ◁▽ →colour temp → MENU → ▷△ to move it towards left.

MENU → colour → MENU → contrast → ◁▽ →colour temp → MENU → ▷△ to move it towards right.



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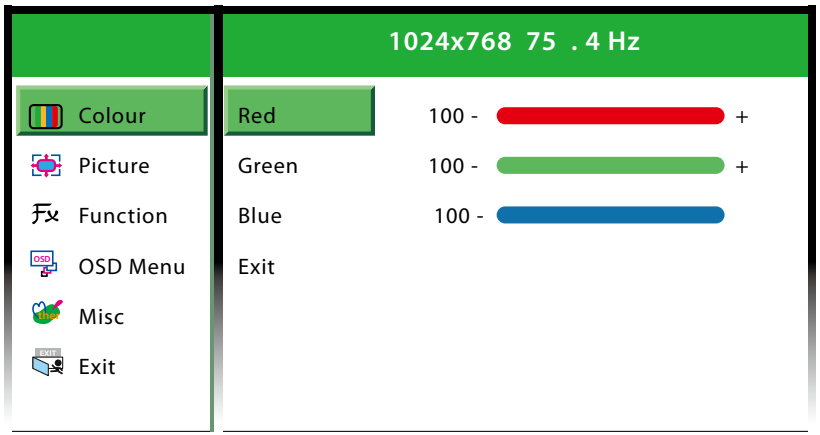
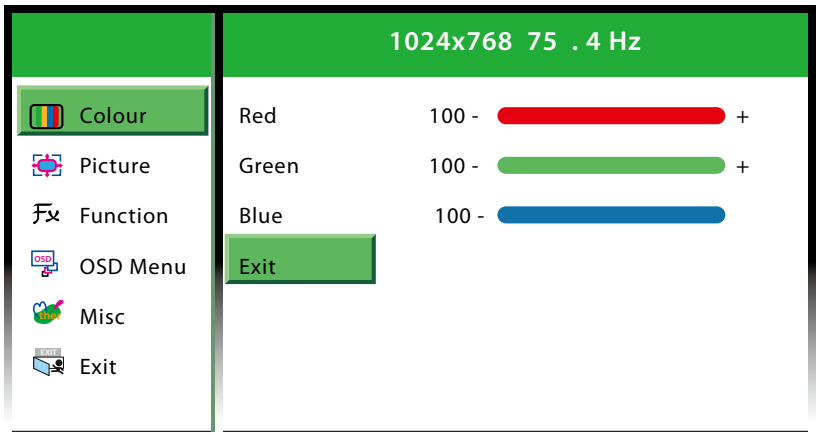
Colour Adjust



Exit

Exits the Colour Adjust sub-menu or press the AUTO/EXIT button to exit.



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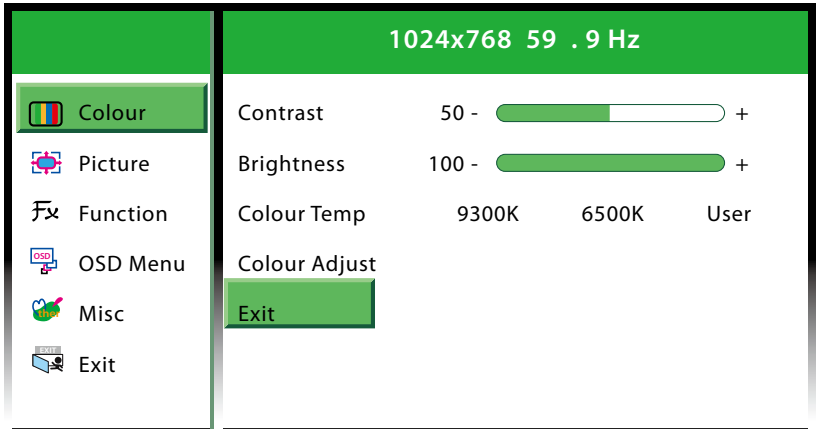
Exit

Exits the Colour sub-menu and return to main menu, or press the

button continuously till exit.



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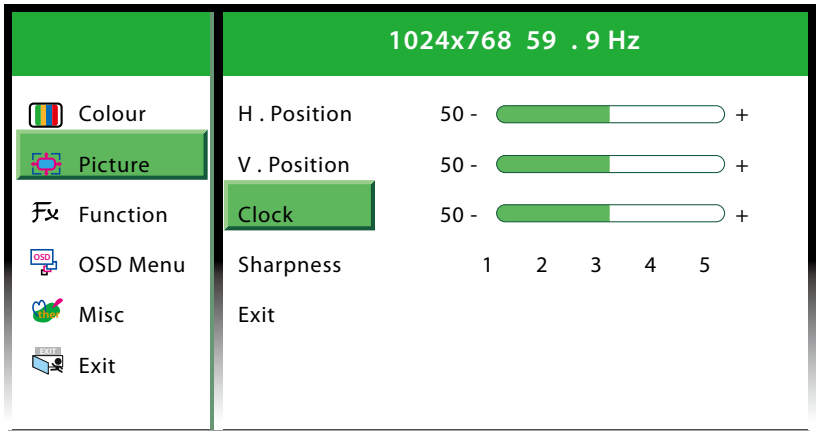
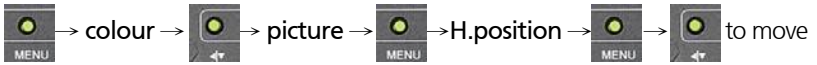
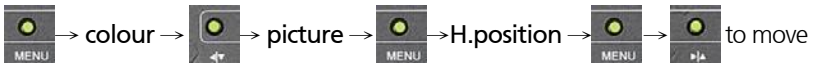
2. Picture



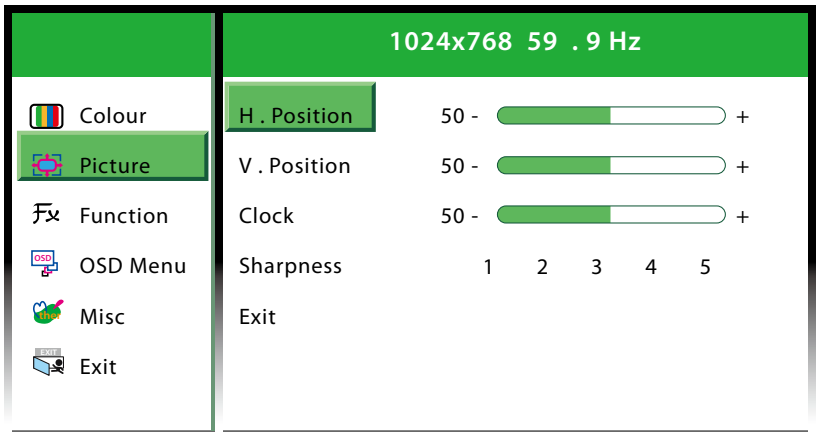
H. Position



the screen towards right.



the screen towards left.



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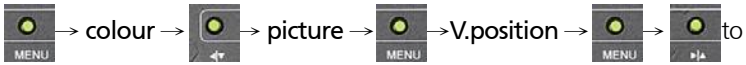
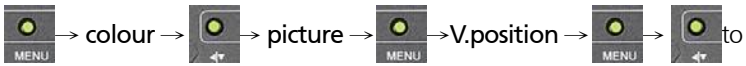
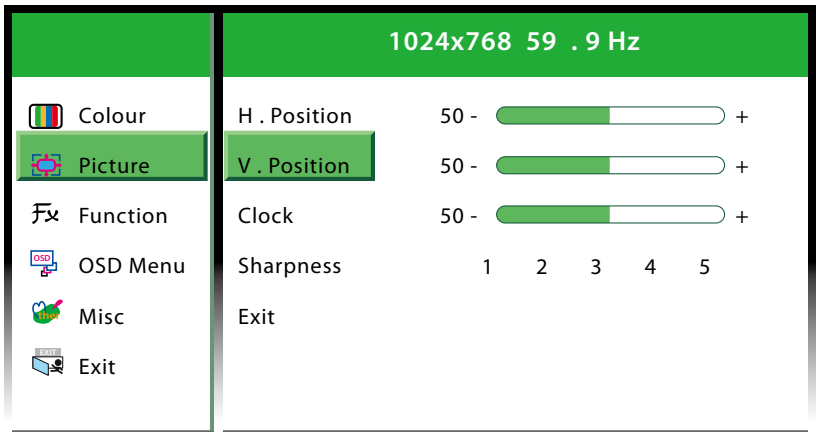
V. Position



the screen down.

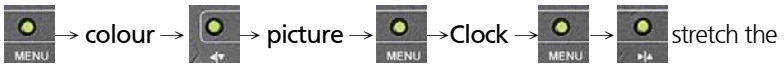


the screen up.

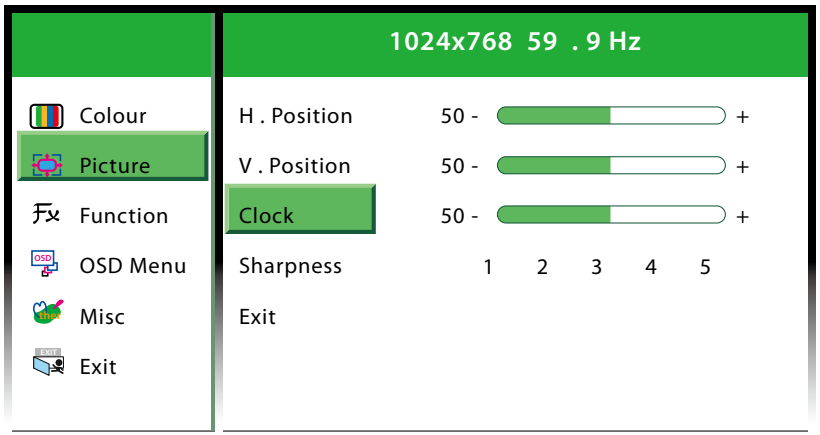


Clock

screen towards right.



screen towards right.



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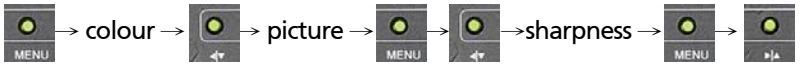
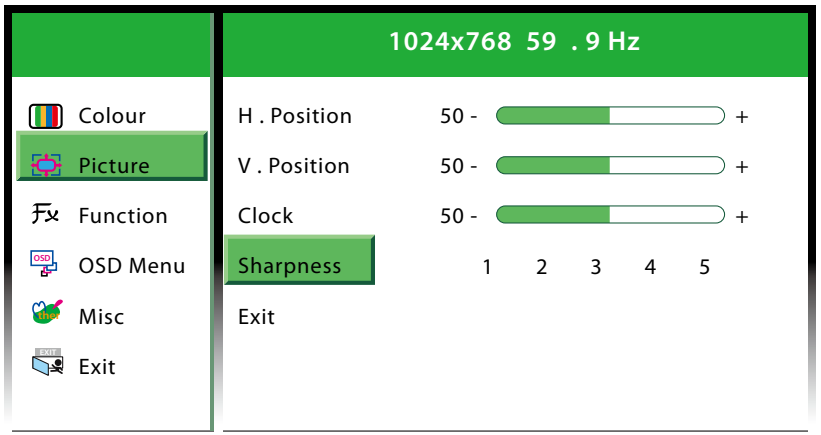
Sharpness



to decrease it.

to decrease it.



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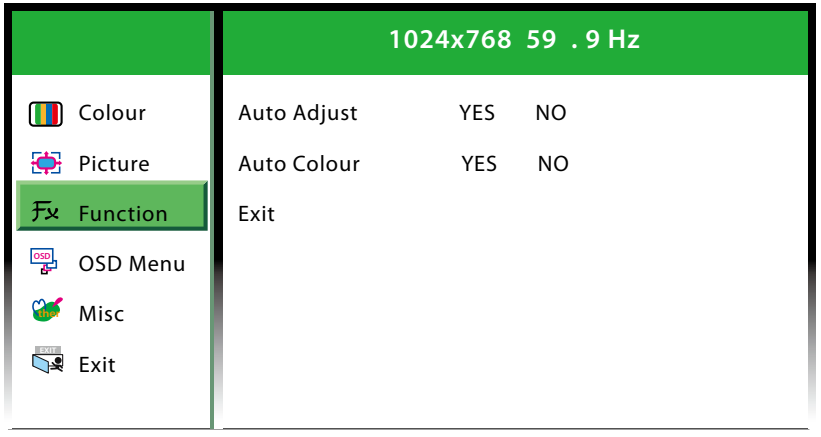
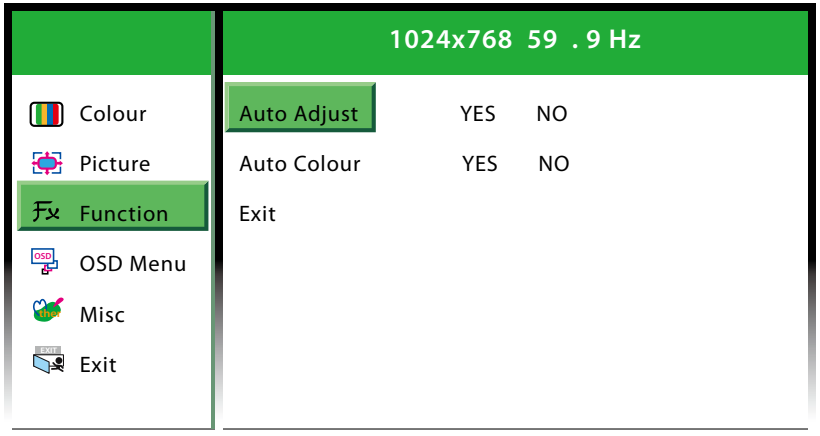
3. Function



Auto Adjust

automatically adjust the screen size, or NO to abort it.



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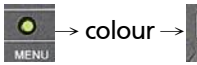
Auto Colour

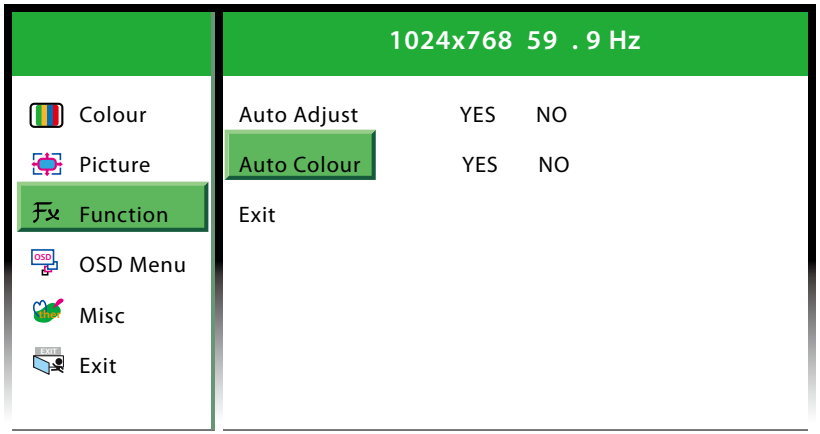


→ colour →

→ function →

→auto colour →

→ YES to automatically adjust the colour, or NO to abort it.



Exit

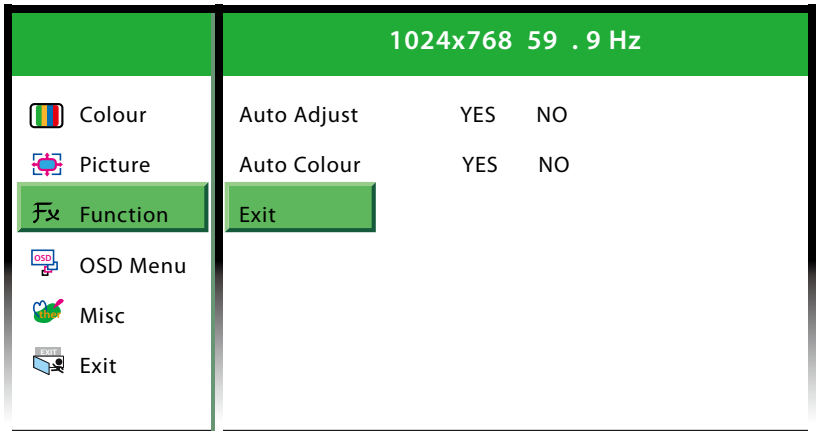
Exits the Function Adjust sub-menu or press the

button to exit.

→colour→

→function→

→exit.



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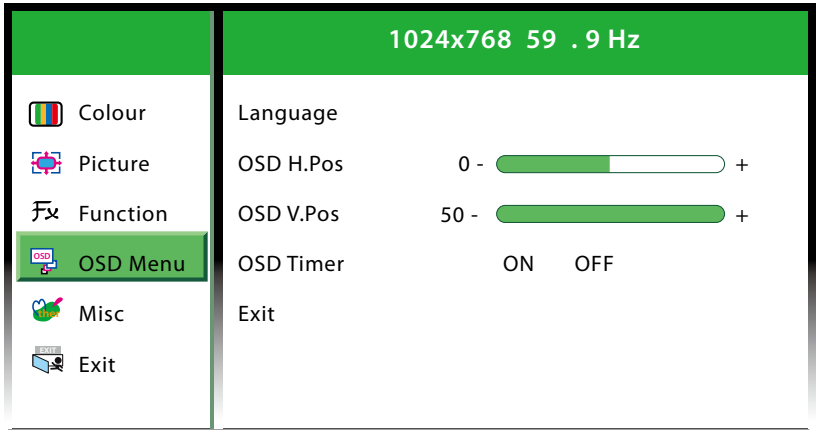
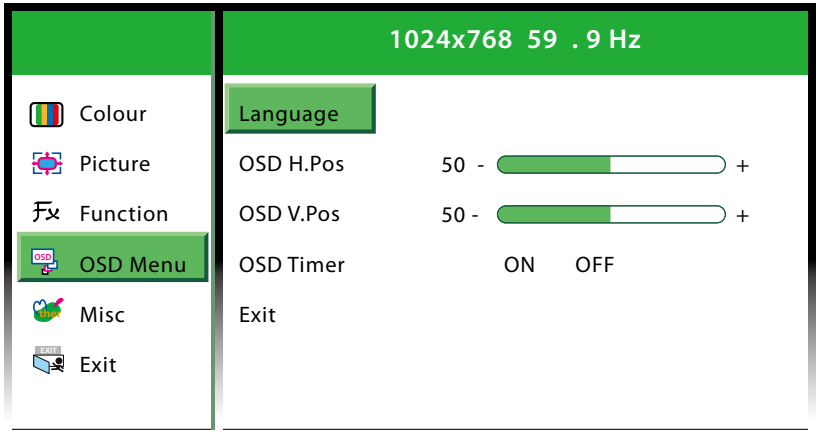
4. OSD Menu



Language

Press the

button to enter the Language sub-menu.



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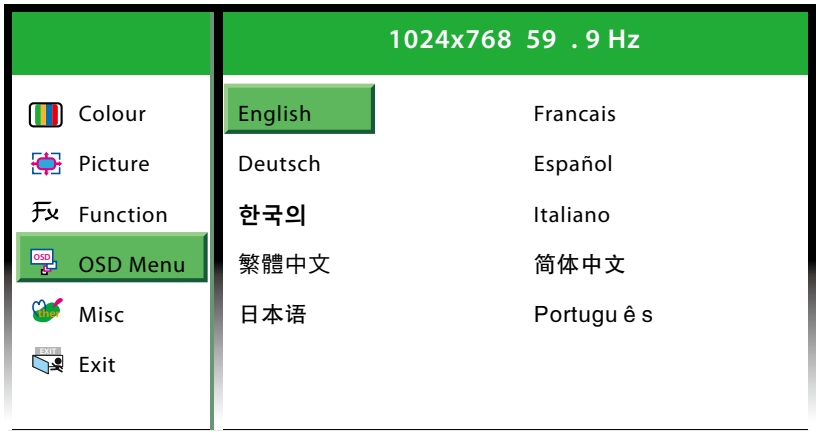
Select the desired language for the OSD menu and press the button to apply the language.



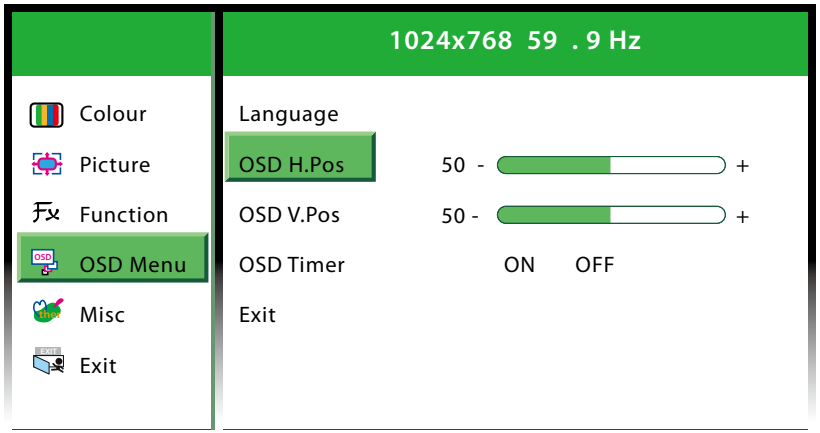
OSD H. Pos

→ colour → → osd menu → → →osd H.pos → →

→move it towards left.

→ colour → → osd menu → → →osd H.pos → →

→move it towards right.



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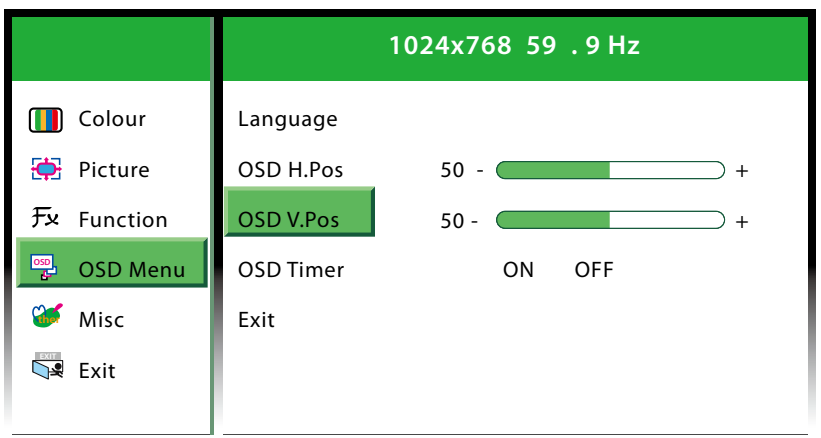
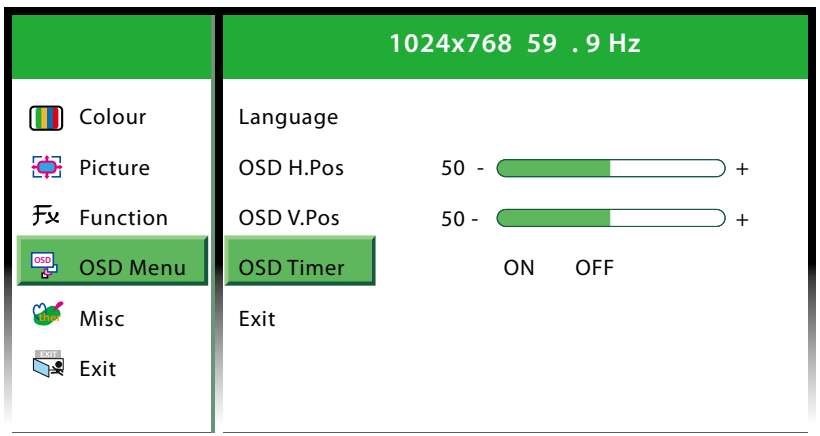
OSD V. Pos

Press ◄|▼ on the back of the display panel to move the OSD menu up, or ►|▲ to move it down.



OSD Timer

Select ON to specify the timeout period of the OSD menu, or OFF to disable it. Press on the back of the display panel to increment the timer by 1 second, or to decrement the timer by 1 second.



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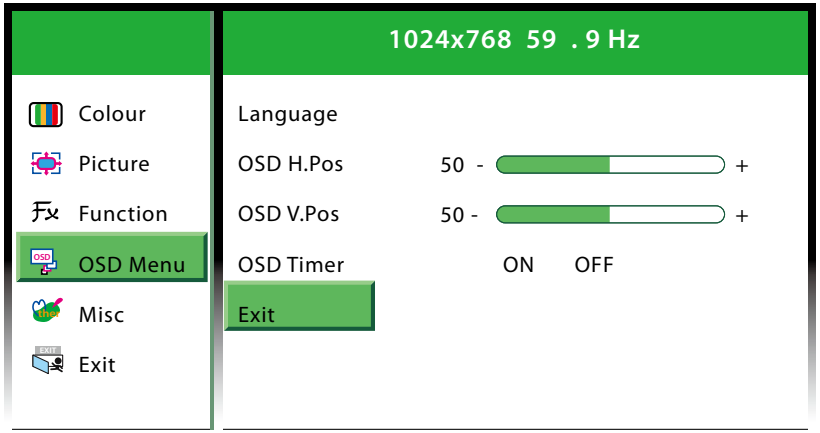
Exit

Exits the OSD Menu sub-menu or press the

button to exit.



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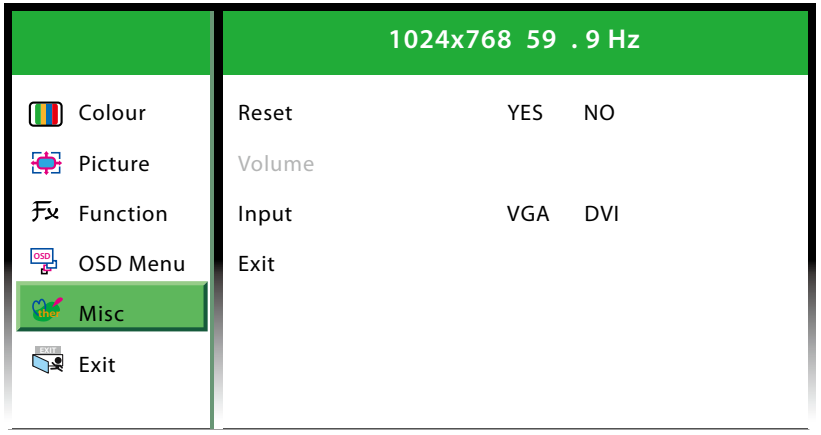
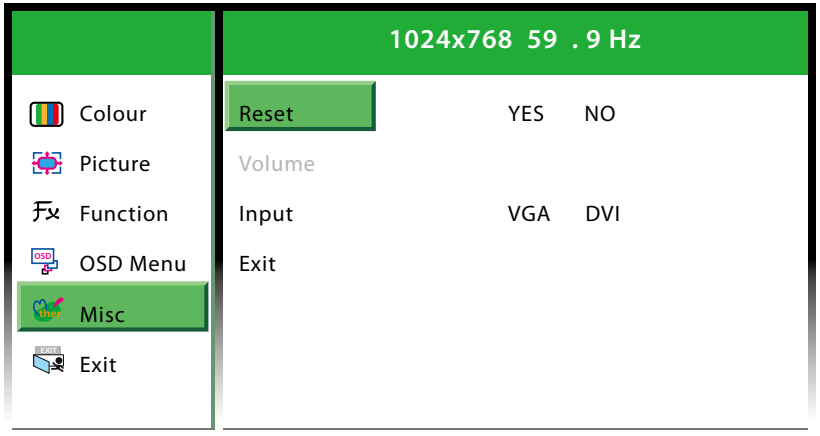
5. Misc



Reset

→ colour → → Misc → →reset → → YES to restore factory default settings, or NOT to abort it.



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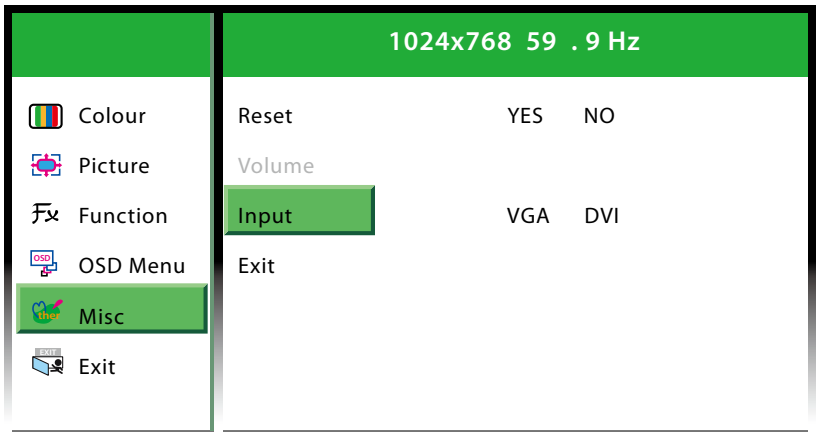
Input

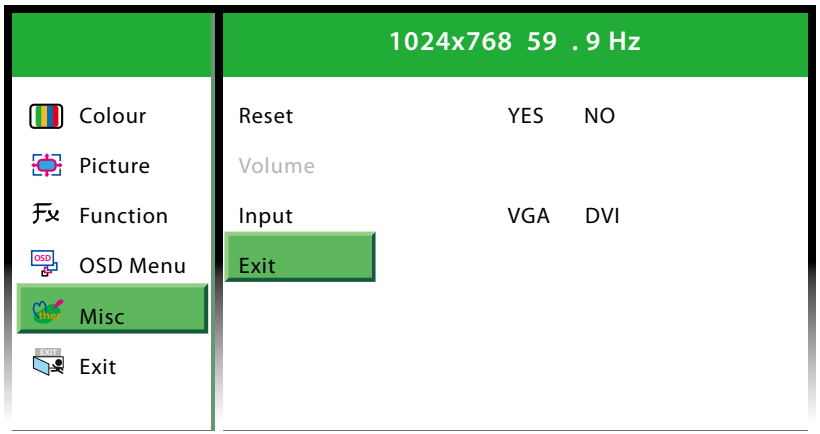
VGA or DVI as the video input.



Exit

Exits the Misc sub-menu or press the

button to exit.



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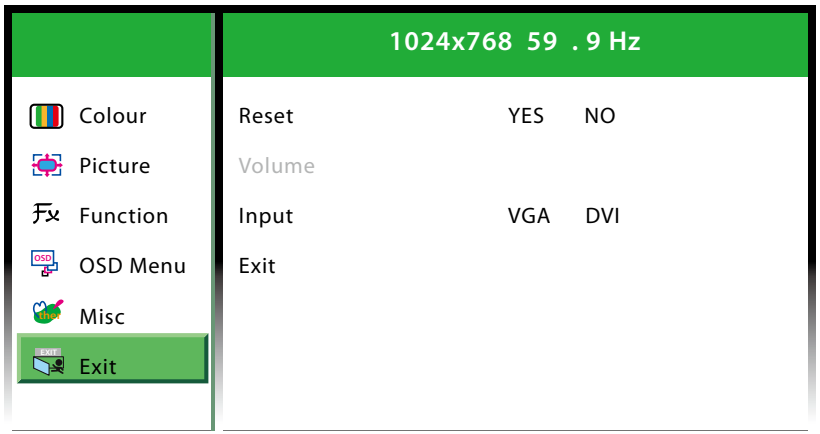
6. Exit

Exits the OSD main menu or press the

button to exit.



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Chapter 5: Touch Driver Settings

Before installing the touch drivers, please adjust the Install.ini file. The Install.ini file is located under the following folder:

\PenMount Windows Universal Driver V2.2.0.283(Win7_32_64bit_WHQL)\Driver

1. Open the Install.ini file.
2. Confirm if the Install.ini file has the following settings, if not, please change it.

```
[Install]
USB = 1          Must set this to "1"
COM = 1          Must set this to "1"
MMonitor = 1
ENUM = 1

[Option]
TouchReport = 2          USB/COM
EdgeOffset = 5
Smoothing = 1

[ENUM]
Total = 4
COM1 = 1         Set "1" to the COM port you intend to use
COM2 = 0
COM3 = 0
COM4 = 0

[COM1]
AlwaysExist
```

3. Install the touch drivers.

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Appendix A: Power Consumption

Purpose

The purpose of the power consumption test is verified the power dissipation of the system and the load of the power supply.

Test Equipment

PROVA CM-07 AC/DC CLAMP METER
Desktop PC

Device Under Test

DUT: Sys #1

Test Procedure

1. Power up the DUT and then switch on the desktop PC connecting to it.
2. Measure the power consumption and record it.
3. Enter the standby mode (Turn off display).
4. Measure the power consumption and record it.

APPD 1700T

	+12V	+24V
Full-Loading Mode	2.7A	1.2A
Total	32.4W	28.8W
Standby Mode	0.21A	0.18A
Total	2.52W	2.24W

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Appendix B: Extended Display Identification Data Timing Support

Extended Display Identification Data (EDID) timing support

Resolution	Vertical Frequencies			
	60Hz	70Hz	73Hz	75Hz
640x480	v		v	v
800x600	v		v	v
1024x768	v	v		v
1152x864				v
1280x960	v			
1280x1024	v			v

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