

## User Manual 15" LCD



### Senses 15P[T]

Aluminum front bezel



### Senses 15OF

Universal Mounting Open Frame



REACH

## Legal Information

First English printing, October 2002

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

## Safety Instructions

**Please read all of these instructions carefully before you use the device. Save this manual for future reference.**

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

## What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - ☐ Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - ☐ Repair or attempted repair by anyone not authorized by us.
  - ☐ Any damage of the product due to shipment.
  - ☐ Removal or installation of the product.
  - ☐ Causes external to the product, such as electric power fluctuation or failure.
  - ☐ Use of supplies or parts not meeting our specifications.
  - ☐ Normal wear and tear.
  - ☐ Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

## Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. 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.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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## Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

## Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

## How To Clean Your LCD Monitor



### Caution :

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the LCD screen. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- Use only cleansers made specifically for cleaning monitors and monitor screens. Cleansers not made to clean monitors and monitor screens can scratch the LCD display or strip off the finish.
- Do not spray any kind of liquid directly onto the screen or case of your monitor. Spraying liquids directly onto the screen or case can cause damage which is not covered under warranty.
- Do not use paper towels or abrasive pads to clean your monitor. Using an abrasive pad or any wood based paper product such as paper towels can scratch your LCD screen.

## Cleaning Your Monitor

To clean your LCD safely, please follow these steps :

- ① Disconnect the power cord.
- ② Gently wipe the surface using a clean, dry microfiber cloth. Use as little pressure as possible.

## Cleaning Tough Marks and Smudges

To remove tough marks and smudges, please follow these steps :

- ① Disconnect the power cord.
- ② Spray a small amount of non-abrasive cleanser on a microfiber cloth.



**Caution : Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.**

- ③ Gently wipe the surface. Use as little pressure as possible.
- ④ Wait until your monitor is completely dry before plugging it in and powering it up.

< Part 1 >

< 1.1 > Package Content - Senses 15P[T]

15" LCD Display

**Senses 15P[T]**



**15" LCD display X 1**

**6ft VGA cable X 1**

**Power adapter X 1**

**Power cord X 1**

**Mounting hardware X 1 pack**

- Mounting bracket x 2 pcs

- M4\* 6mm screw x 4 pcs

- M4\* 50mm screw x 4 pcs

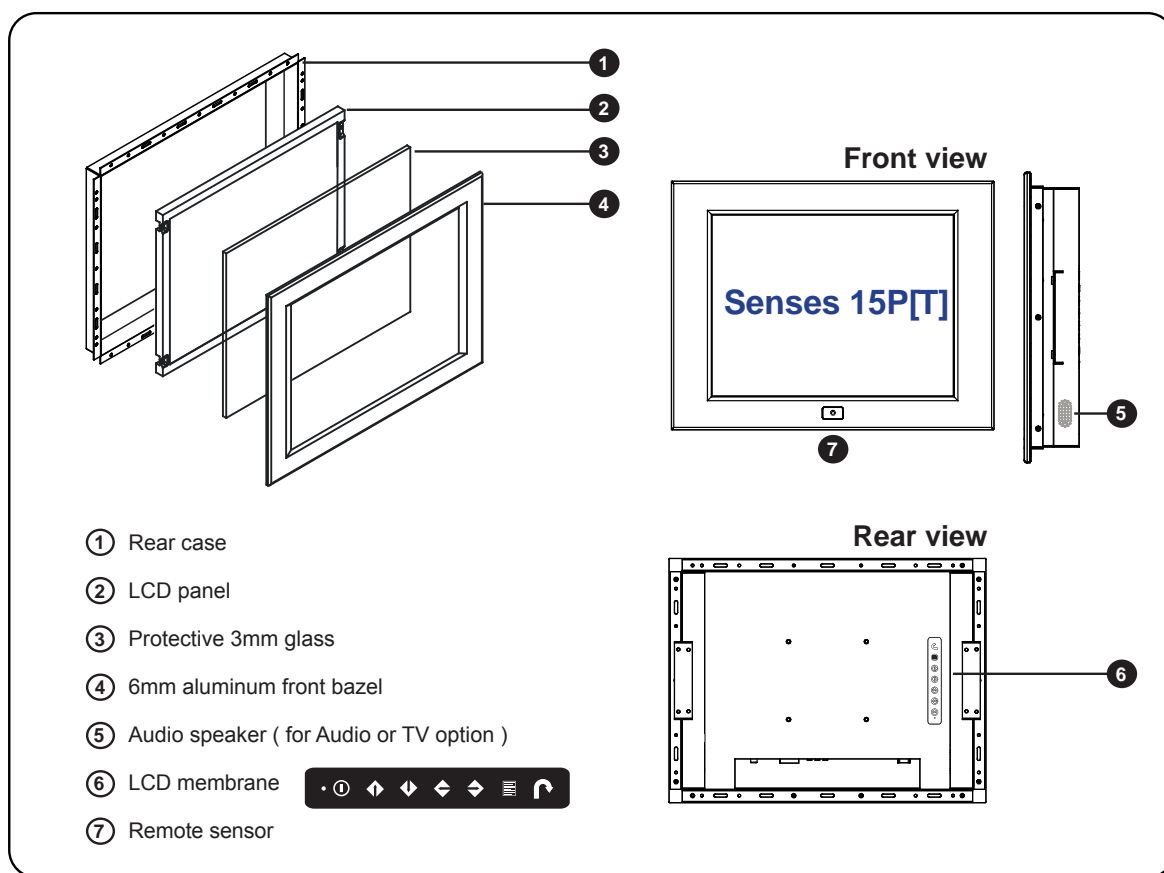
**Basic I/O**



**AV2.2 upgrade I/O**



## < 1.2 > Structure Diagram - Senses 15P[T]

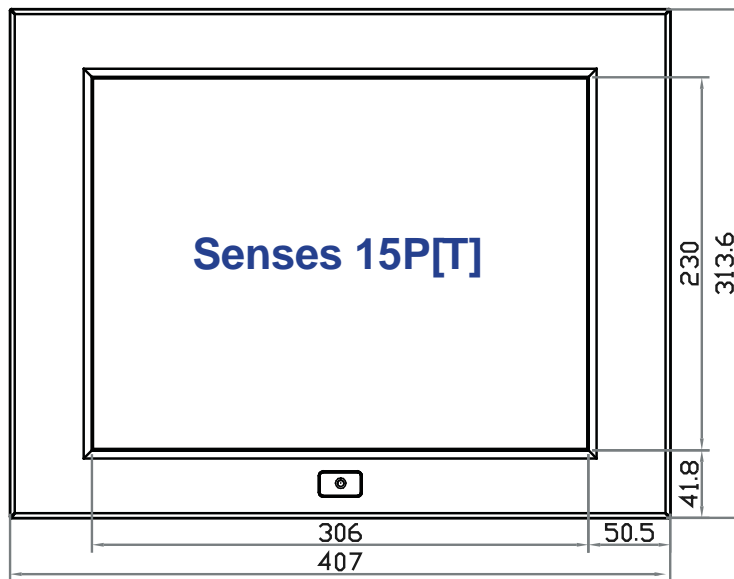


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
<b>Senses 15P[T]</b>	407 x 59.1 x 313.6 mm 16 x 2.3 x 12.3 inch	615 x 113 x 523 mm 24.2 x 4.4 x 20.6 inch	4.7 kg 10.3 lbs	7.3 kg 16.1 lbs

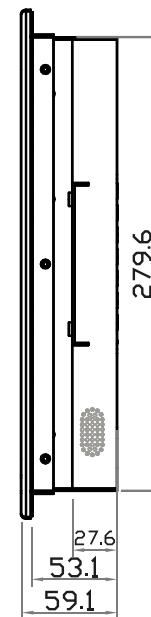
## < 1.2 > Dimension - Senses 15P[T]

## 15" LCD Display

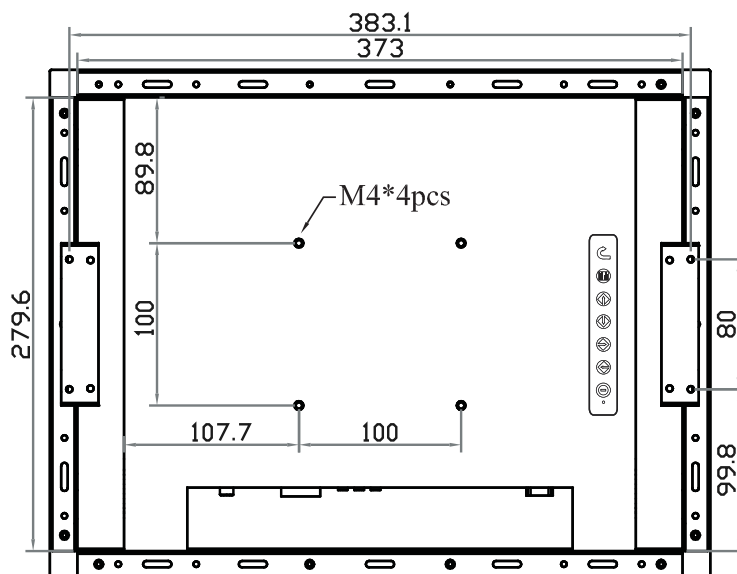
Front View



Side View

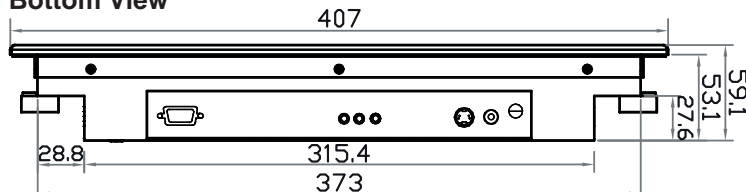


Rear View



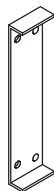
UNIT : mm  
1mm = 0.03937 inch

Bottom View



## < 1.3 > Panel Mount Installation - Senses 15P[T]

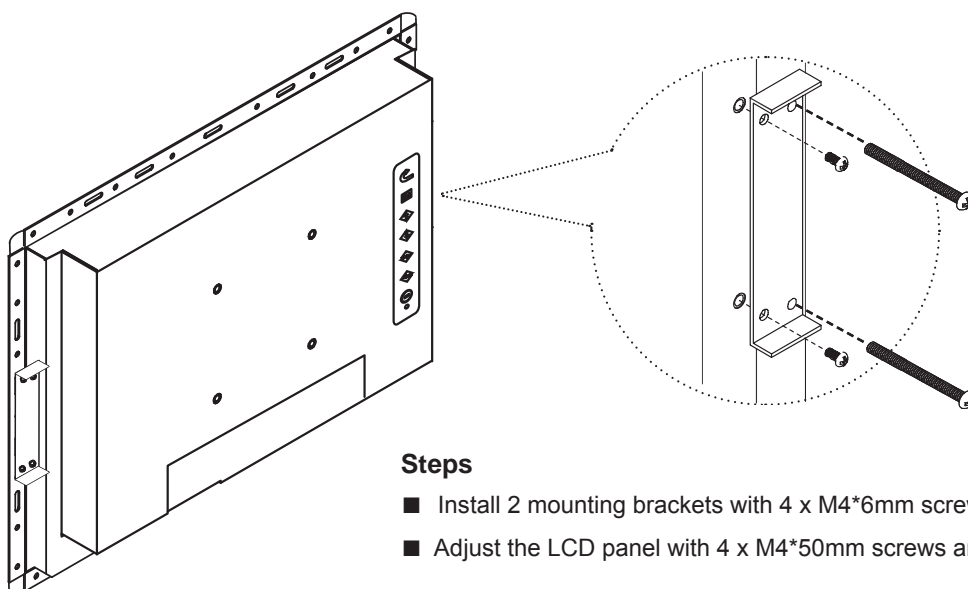
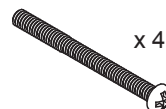
- 1 Mounting bracket  
x 2 pcs



- 2 M4\*6mm screw  
x 4 pcs



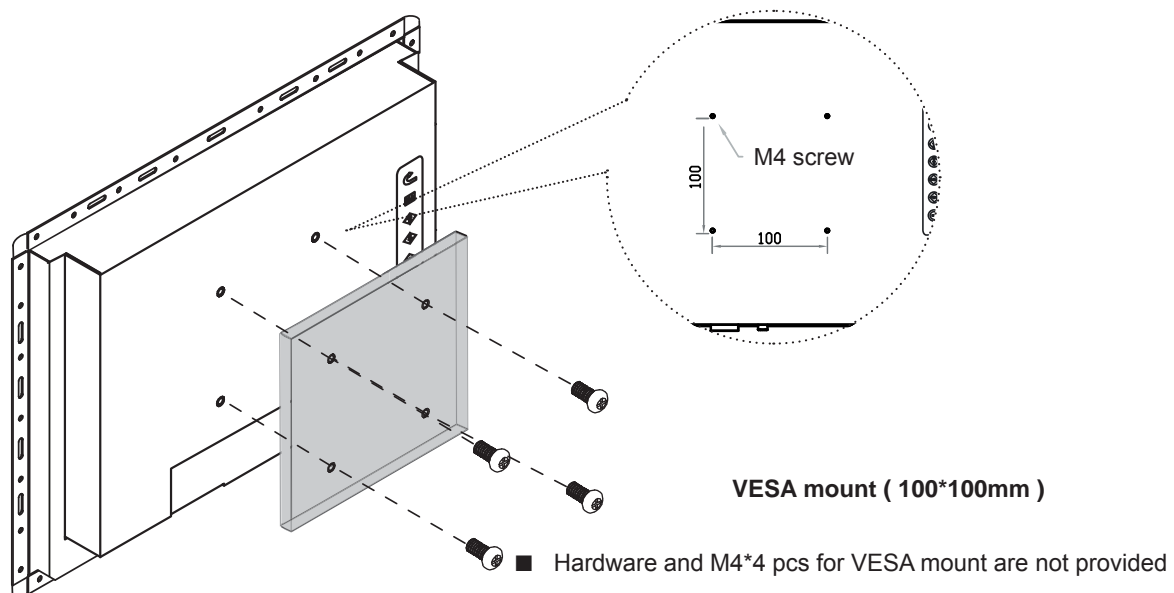
- 3 M4\*50mm screw  
x 4 pcs



### Steps

- Install 2 mounting brackets with 4 x M4\*6mm screws
- Adjust the LCD panel with 4 x M4\*50mm screws and fix it on the surface.





< Part 2 >  
< 2.1 > Package Content - Senses 150F

Senses 150F



- 15" LCD display X 1
- 6ft VGA cable X 1
- Power adapter X 1
- Power cord X 1

Basic I/O

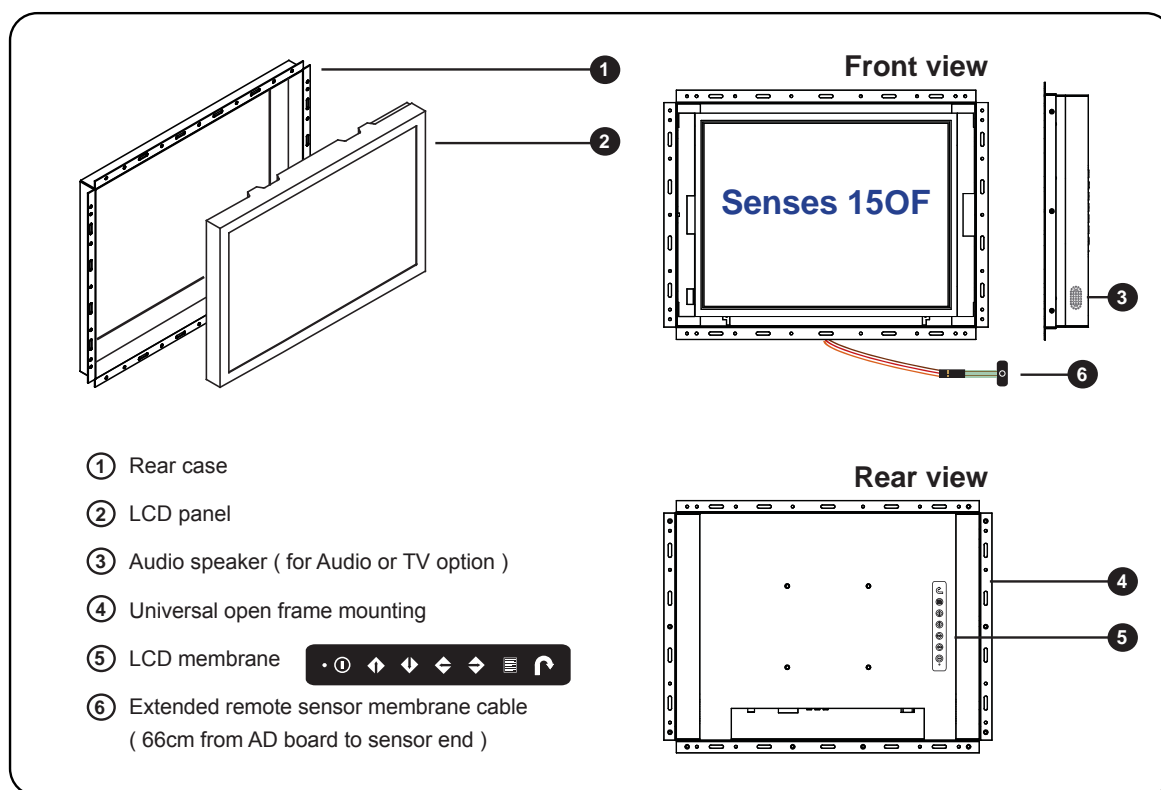


AV2.2 upgrade I/O



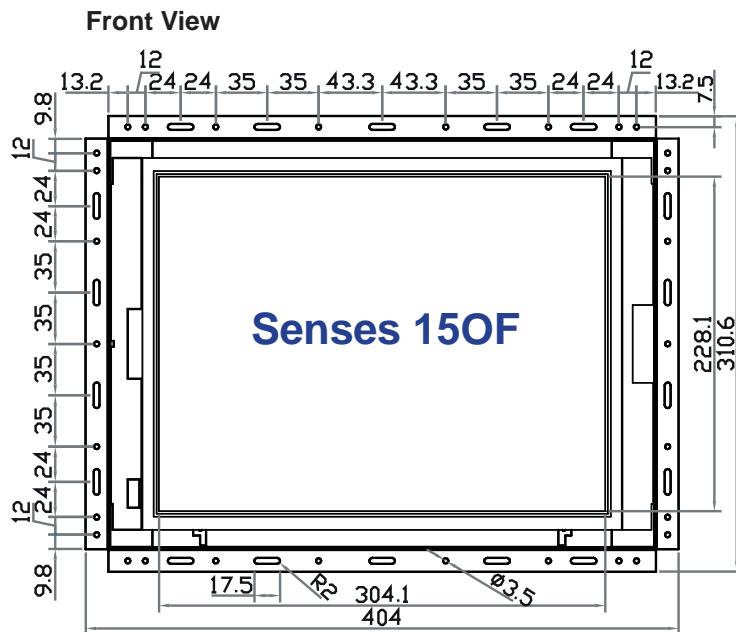
## < 2.2 > Structure Diagram - Senses 150F

15" LCD Display

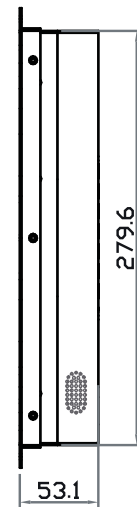


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
Senses 150F	404 x 53.1 x 310.6 mm 15.9 x 2.1 x 12.2 inch	615 x 113 x 523 mm 24.2 x 4.4 x 20.6 inch	3.5 kg 7.7 lbs	6.1 kg 13.4 lbs

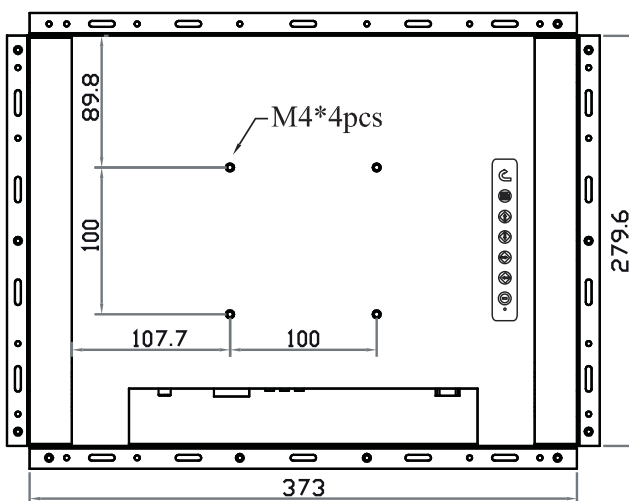
## < 2.2 > Dimension - Senses 150F



**Side View**

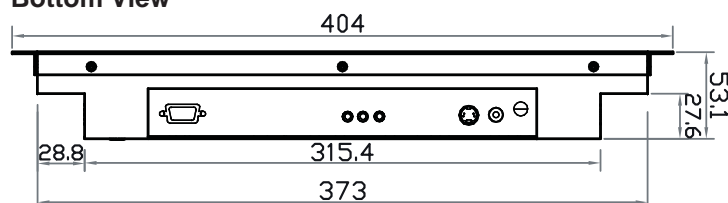


**Rear View**



UNIT : mm  
1mm = 0.03937 inch

**Bottom View**



## 15" LCD Display

Hardware and M4\*4 pcs for VESA mounting are not provided

## < Part 3 >

### < 3.1 > Product Specifications

Mechanical Design		Senses 15P[T]	Senses 15OF
	Front Panel	Black, RAL 9005	-
	Rear Casing	Black, RAL 9005	Black, RAL 9005
	VESA Mounting	100 x 100mm	100 x 100mm
	Other Mounting	Panel mount	Universal mount
	Protection	3mm protective glass	-

LCD Panel	Manufacturer	<b>AUO</b>	
	Panel Size ( diagonal )	15-inch TFT color LCD	
	Display pixel ( dots x lines )	1024 x 768	
	Brightness ( typ. )	250	
	Contrast Ratio ( typ. )	700:1	
	Color	16.2 M	
	Viewing Angle ( L/R/U/D )	75/75/75/60	
	Response Time ( ms )	8	
	Dot pitch ( mm )	0.297	
	Display Area ( mm )	304.12H x 228.09V	
	Surface treatment	Haze 25%	
	Surface hardness	3H	
	Backlight Type	CCFL	
	MTBF ( hrs )	30,000	

Video Connectivity	Analog	VGA	Analog 0.7Vp-p
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Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50/60Hz
	Power Consumption	Screen display ON	22W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

Regulatory	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant

Environmental Conditions	Operating	Temperature	0 to 50°C degree
		Humidity	20~90%, non-condensing
	Storage	Temperature	-5 to 60°C degree
		Humidity	5~90%, non-condensing
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

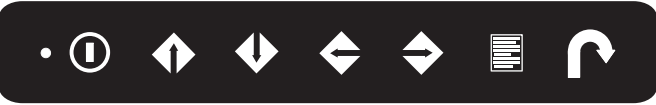
## 15" LCD Display

Physical Specification		Senses 15P[T]	Senses 15OF
	Product ( W x D x H )	407 x 59.1 x 313.6 mm 16 x 2.3 x 12.3 inch	404 x 53.1 x 310.6 mm 15.9 x 2.1 x 12.2 inch
	Packing ( W x D x H )	615 x 113 x 523 mm 24.2 x 4.4 x 20.6 inch	615 x 113 x 523 mm 24.2 x 4.4 x 20.6 inch
	Net Weight	4.7 kgs / 10.3 lbs	3.5 kgs / 7.7 lbs
	Gross Weight	7.3 kgs / 16.1 lbs	6.1 kgs / 13.4 lbs

Applicable Format	VGA Input	PC Signal	1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
			640 x 350 x 70Hz

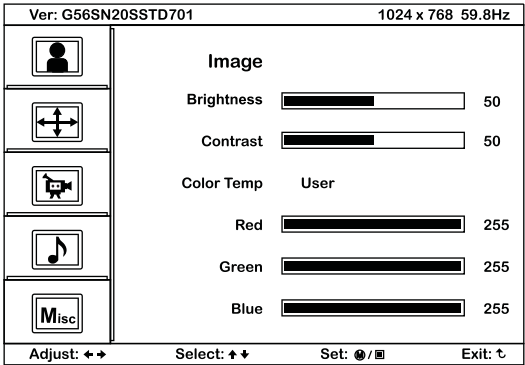
< 3.2 > On-screen Display Operation ( OSD )

- Power light
- Green = On
- Orange = Power saving



Membrane Switch	Function
	Power on / off LCD
	Display the OSD menu
	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button  for 5 seconds)
	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

OSD Configuration Page



	<b>Image:</b> for the brightness, contrast, color temp, red, green, and blue
	<b>Geometry:</b> for the auto adjust, H position, V position, phase and clock
	<b>Video:</b> for the colour, tint, sharpness, noise reduction, DCDi and TV Setup
	<b>Audio:</b> for volume, bass, treble, balance, AVL and mute
	<b>Misc:</b> for the language, OSD position, graphic mode, ratio, reset and timer