

User Manual 17" / 19" / 20" LCD 1152 x 900 Native Resolution



Designed and manufactured by Austin Hughes

751

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
- □ 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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3.1 DC Power: 12V / 24V / 48V / 125V / 250V

P.12

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.

Caution: Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your

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:

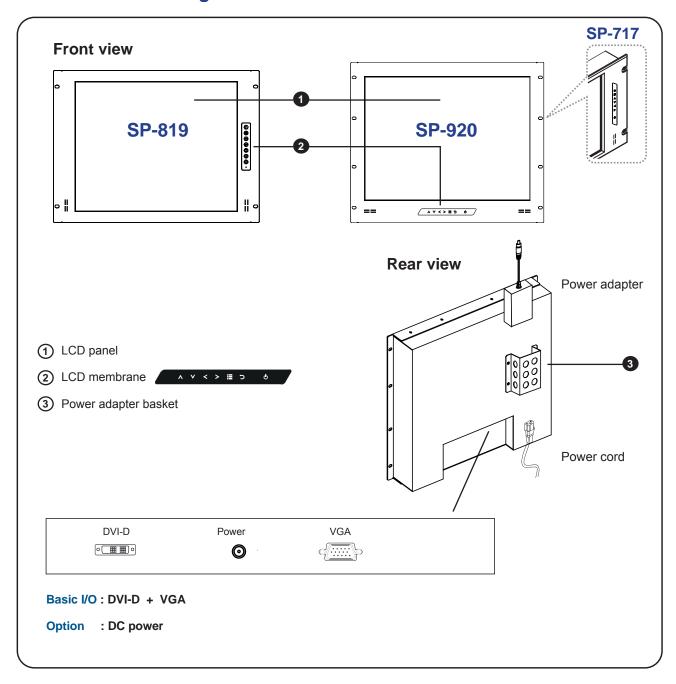
- ① Disconnect the power cord.
- 2 Spray a small amount of non-abrasive cleanser on a microfiber cloth.
- microfiber cloth first, not directly on the parts you are cleaning.
- Gently wipe the surface. Use as little pressure as possible.
- Wait until your monitor is completely dry before plugging it in and powering it up.

< 1.1 > Package Content



SP-717 or SP-819 or SP-920 X 1 6ft VGA cable X 1 Power adapter X 1 Power cord X 1

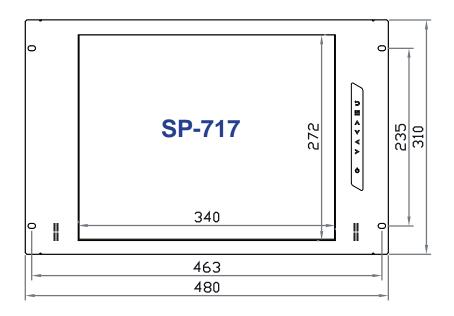
< 1.2 > Structure Diagram

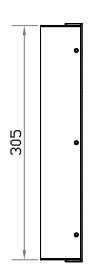


< 1.2 > Dimension - SP-717

Front View

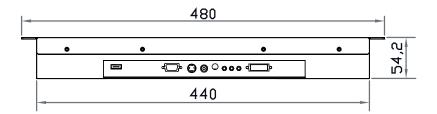
Side View





Bottom View

UNIT : mm 1mm = 0.03937 inch

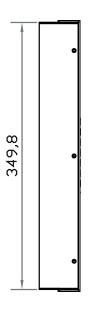


Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
SP-717	480 x 54.2 x 310 mm	529 x 124 x 495 mm	6.1 kg	8.2 kg
	18.9 x 2.1 x 12.2 inch	20.8 x 4.9 x 19.5 inch	13.4 lbs	18 lbs

Front View

SP-819 SP-819 8,752 463 480

Side View



Bottom View

1mm = 0.03937 inch

UNIT: mm

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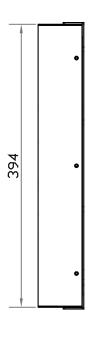
Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
SP-819	480 x 53.3 x 354.8 mm	539 x 129 x 529 mm	5.7 kg	8 kg
	18.9 x 2.1 x 14 inch	21.2 x 5.1 x 20.8 inch	12.5 lbs	17.6 lbs

< 1.2 > Dimension - SP-920

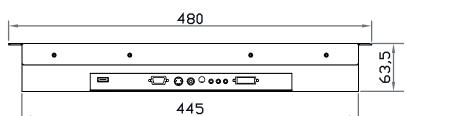
Front View

SP-920 SP-920 411 463 480

Side View



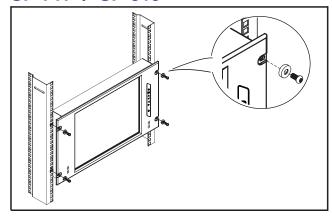
Bottom View



UNIT : mm 1mm = 0.03937 inch

Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
SP-920	480 x 63.5 x 399 mm	583 x 124 x 529 mm	8.5 kg	11 kg
	18.9 x 2.5 x 15.7 inch	23 x 4.9 x 20.8 inch	19 lbs	24 lbs

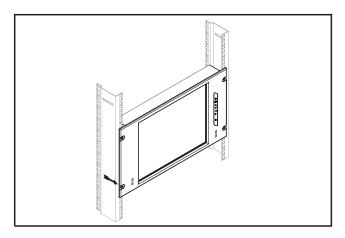
SP-717 / SP-819



Step 1

- Mount the display panel with M6 screw set.
- \blacksquare M6 screw x 4 pcs required (Left & right side).

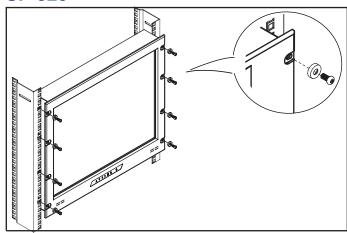
M6 screw sets are not provided.



Step 2

■ Fix the LCD into the rack.

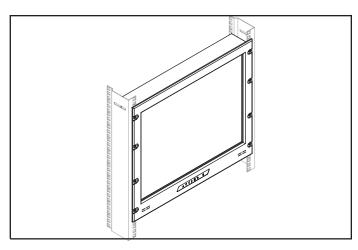
SP-920



Step 1

- Mount the display panel with M6 screw set.
- M6 screw x 8 pcs required (Left & right side).

M6 screw sets are not provided.



Step 2

■ Fix the LCD into the rack.

< 2.1 > Product Specifications - SP-717 / SP-819

LCD		SP-717	SP-819
Panel	Manufacturer	Vno	VNO
	Panel Size (diagonal)	17-inch TFT color LCD	19-inch TFT color LCD
	Diaplay pival (data y linea)	1152 x 900 (Direct)	1152 x 900 (Direct)
	Display pixel (dots x lines)	1280 x 1024 (Native)	1280 x 1024 (Native)
	Brightness (typ.)	250	250
	Contrast Ratio (typ.)	1000:1	1000:1
	Color	16.7 M	16.7 M
	Viewing Angle (L/R/U/D)	85/85/80/80	85/85/80/80
	Response Time (ms)	5	5
	Dot pitch (mm)	0.264	0.294
	Display Area (mm)	337.92H x 270.33V	376.32H x 301.06V
	Surface treatment	Haze 25%, I	Hard-coating
	Surface hardness	3H	3H
	Backlight Type	LED	LED
	MTBF (hrs)	30,000	30,000

Video	Digital	DVI	DVI-D, TMDS single link
Connectivity	Analog	VGA	Analog 0.7Vp-p
	Plug & Play	DVI / VGA	VESA EDID structure 1.3
	Synchronization	VGA	Separate, Composite & SOG

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen ON	Max. 25W
		Power saving mode	Max. 4W
		Power button OFF	Max. 1W

Regulatory	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant

Environmental	Operating	Temperature	0 to 55°C degree
Conditions		Humidity	20~90%, non-condensing
		Altitude	16,000 ft
	Storage / Non-operating	Temperature	-20 to 60°C degree
		Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

SP-717 / 819 / 920

Physical		SP-717	SP-819
Specification	Product (WxDxH)	480 x 54.2 x 310 mm	480 x 53.3 x 354.8 mm
		18.9 x 2.1 x 12.2 inch	18.9 x 2.1 x 14 inch
	Packing (WxDxH)	529 x 124 x 495 mm	539 x 129 x 529 mm
		20.8 x 4.9 x 19.5 inch	21.2 x 5.1 x 20.8 inch
	Net Weight	6.1 kgs / 13.4 lbs	5.7 kgs / 12 lbs
	Gross Weight	8.2 kgs / 18 lbs	8 kgs / 17.6 lbs

Applicable Format	DVI-D / VGA Input	PC Signal	1152 x 900 x 66Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 768 x 60 / 75Hz
			1152 x 864 x 75Hz
			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

< 2.1 > Product Specifications - SP-920

LCD	Manufacturer	(1) LG
Panel	Panel Size (diagonal)	20-inch TFT color LCD
	Display pixel (dots x lines)	1152 x 900 (Direct)
		1600 x 1200 (Native)
	Brightness (typ.)	300
	Contrast Ratio (typ.)	800:1
	Color	16.7 M
	Viewing Angle (L/R/U/D)	89/89/89
	Response Time (ms)	16
	Dot pitch (mm)	0.255
	Display Area (mm)	408.00H x 306.00V
	Surface treatment	Anti-glare, Hard-coating
	Surface hardness	3H
	Backlight Type	CCFL
	MTBF (hrs)	45,000

Video	Digital	DVI	DVI-D, TMDS single link
Connectivity	Analog	VGA	Analog 0.7Vp-p
	Plug & Play	DVI / VGA	VESA EDID structure 1.3
	Synchronization	VGA	Separate, Composite & SOG

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen ON	Max. 48W
		Power saving mode	Max. 4W
		Power button OFF	Max. 1W

Regulatory	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant

Environmental Conditions	Operating	Temperature	0 to 55°C degree
		Humidity	20~90%, non-condensing
		Altitude	16,000 ft
	Storage / Non-operating	Temperature	-20 to 60°C degree
		Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

SP-717 / 819 / 920

Physical	Product (WxDxH)	480 x 63.5 x 399 mm
Specification		18.9 x 2.5 x 15.7 inch
	Packing (WxDxH)	583 x 124 x 529 mm
		23 x 4.9 x 20.8 inch
	Net Weight	8.5 kgs / 19 lbs
	Gross Weight	11 kgs / 24 lbs

Applicable	DVI-D / VGA Input	PC Signal	1152 x 900 x 66Hz
Format			1600 x 1200 x 60Hz
			1400 x 1050 x 60Hz
			1440 x 900 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 768 x 60 / 75Hz
			1152 x 864 x 75Hz
			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

< 2.2 > On-screen Display Operation (OSD)

SP-819 O 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)

SP-717 / SP-920

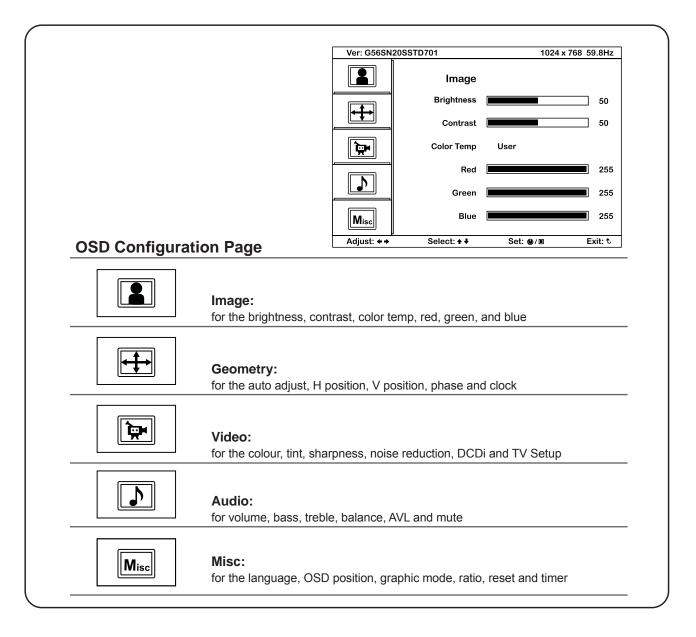


Membrane Switch	Function	
&	Turn the monitor on or off	
	Display the OSD menu Act as an Enter key to select screen setting options	
$\wedge $	Scroll through menu options and adjust the displayed control	
	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu	

Remark : All LED touch buttons in WHITE light.

The LED of **Power** touch button will flash continuously when there is no signal input.

- 1 All the LED touch buttons will automatically turn off after 10 minutes of idle status (except the **Power** (b)).
- (2) Light up all membrane buttons, please press any button for 1 2 seconds (except the **Power** (1)).



< Part 3 >

< 3.1 > Options : DC Power



Model	12V	24V	48V	125V	250V
Input rating					
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt	300-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V	180 ~ 425V
Input current					
- No load	50 mA	50 mA	50 mA	35 mA	10 mA
- Full load	4950 mA	2450 mA	1220 mA	749 mA	600 mA
Output rating					
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	6.25A	12.5A
Efficiency	84%	85%	85%	91%	86%

*** For DC power option:

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(1)	If the unit with LCD,	earthing	may be required	

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