

AYDINDISPLAYS

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USER'S MANUAL

for the

Model CFP21W2

**21-INCH AMLCD FLAT PANEL COLOR
MONITOR**

Document # 150-CFP-210(-)

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WARNING



TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS UNLESS THE PRONGS CAN BE FULLY INSERTED.
DO NOT OPEN THE CABINET. THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



CAUTION



RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK, NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol warns the user that un-insulated voltage within the unit may be large enough to cause electric shock. Therefore, it is dangerous to touch any part inside the unit.



This symbol alerts the user that important literature about the operation and maintenance of this unit has been included. Read it carefully to avoid any problems.

PRODUCT SAFETY PRECAUTIONS

- ◆ Follow all warnings and instructions marked on the display.
- ◆ Do not attempt to service this display yourself. Removing the display cover or back may expose you to dangerous voltage or other risks. Refer all servicing to qualified service personnel.
- ◆ Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the display from overheating. Do not block ventilation slots and openings or install the display in a place where ventilation may be hindered.
- ◆ This display should be operated from the type of power source indicated on the displays rating label.
- ◆ Do not allow metal pieces or objects of any kind to fall into the display through the ventilation holes.

Thank you for purchasing this Aydin Displays LCD Display.

The carton contains the items listed below:

- CFP21W2 LCD Display
- Product CD containing:
 - This User's Guide
 - Warranty Guide

Table of Contents

1. Introduction	1
2. Specifications.....	1
3. Front Panel Buttons/On-Screen Display.....	2
3.1. Front Panel Buttons	2
3.2. Power Management.....	2
4. On-Screen Control Function Items.....	3
5. Drivers	10
6. Maintenance.....	10
6.1 Preventive Maintenance	10
6.2 Corrective Maintenance	10
6.3 Troubleshooting (No Picture).....	10
6.4 Replaceable Parts	11
7. Mechanical Drawing.....	12

1. Introduction

The Model CFP21W2 AMLCD Monitor is a 21.3" diagonal display with a native resolution of 1600 x 1200 (WUXGA). The display is designed to operate from 115/220 VAC, 60Hz, single phase. Inputs are provided for DVI-D, VGA and Video. Generally all VESA compatible video formats are supported. If a mode isn't supported, the factory can add special modes. Picture-in-Picture (PIP) mode can be provided as an option.

2. Specifications

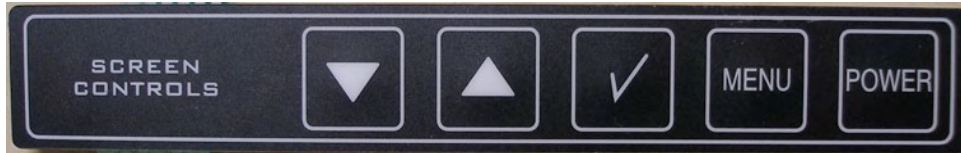
Specifications	
Display Type:	21.3" TFT
Active Display Area:	17.01"(w) x 12.76"(h) (432 x 324 mm)
Pixel Pitch:	.27 mm
Brightness:	760 Nits LED Backlight
Viewing Angle:	Left/ Right 88°/88° Up/ Down 88°/88°
Contrast Ratio:	24:1 @ 6000 fL
Response Time:	20 ms White to Black
Display Colors:	16.7M
Input Signal:	Video: Analog 0.7V p-p/75 Ω Sync: Separate H&V, Combined, SOG
Input Interface:	RCA, Mini-DIN, HD-15, DVI-D
Video Inputs:	NTSC/PAL (RCA) Mini-DIN (S-Video) HD15 (VGA) DVI-D (Digital)
Resolutions Supported:	640 x 480 800 x 600 1024 x 768 1280 x 1024 1600 x 1200
Native Resolutions:	1600 x 1200 (UXGA)

Environmental	
Temperature:	Operating: 0°C to 50°C
	Storage: -20°C to +60°C
Humidity (Non-Condensing):	Operating: 10 to 95%
	Storage: 10 to 95%
Altitude:	Operating: 0 to 10,000 ft.
	Storage: 0 to 40,000 ft.
Shock:	30g's, 11ms, ½ Sine
Vibration:	1g RMS 20-500Hz
Power Requirements:	Power Supply: 90-264 VAC Auto Switching @ 50/60 Hz (Internal)
	Power/ Current: 55 Watts (Max) .52a
Dimensions & Weight:	Height: 15.02" (381.51 mm)
	Width: 19.27" (489.46 mm)
	Depth: 3.8" (96.52 mm)
Options:	Bonded Capacitive Touchscreen USB Desk Stand

3. Front Panel Buttons/On-Screen Display

3.1. Front Panel Buttons

Press MENU to display the On-Screen-Display (OSD). Use the ▲ and ▼ to move the cursor to the desired menu selection and press MENU to access the adjustment or function. With the ✓ button you can exit the current function and go back to the previous menu point.



BUTTON	OPERATION PERFORMED IF OSD NOT DISPLAYED	OPERATION PERFORMED WHEN OSD DISPLAYED
▼	DECREASES BACKLIGHT BRIGHTNESS	SELECTS NEXT MENU OPTION OR NEXT SUB-MENU OPTION OR DECREASE SELECTED VALUE
▲	INCREASES BACKLIGHT BRIGHTNESS	SELECTS PREVIOUS MENU OPTION OR PREVIOUS SUB-MENU OPTION OR INCREASE SELECTED VALUE
✓	PERFORMS AUTO ADJUST	EXITS SUB-MENU OPTION OR EXITS OSD
MENU	ENABLES OSD	SELECTS MENU OPTION OR SUB-MENU OPTION
POWER	URNS POWER ON/OFF	POWER SAVE/SLEEP MODE

3.2. Power Management

When Horizontal or Vertical Sync is not detected, the screen will display the No Sync message. After approximately 3 seconds the display will begin to search all active inputs for Sync.

If no Sync is detected on any of the available inputs the unit will go into sleep mode and shut off the display backlight.

Detection of Sync on ANY input will wake the display and enable the unit backlights.

4. On-Screen Control Function Items

Main Menu				
Input Select	Main Picture Channel	DisplayPort	Set main input to selected input	
		DVI		
		VGA		
		SVideo		
		Video		
	Scan Input	On	Enable scanning of Main and PiP inputs	
		Off	Disable scanning of inputs	
	PiP Mode	Off	Disable PiP	
		Small	Shown PiP in small window	
		Large	Show PiP in large window	
		Side by Side	Show PiP Side by Side	
	PiP Channel	DisplayPort	Set PiP channel to selected input	
DVI				
VGA				
SVideo				
Video				
PiP Position	Bottom / Right	Set PiP to lower-right corner		
	Top / Right	Set PiP to upper-right corner		
	Bottom / Left	Set PiP to lower-left corner		
	Top / Left	Set PiP to upper-left corner		
Swap Main & PiP	Swap main an PiP channel			

Main Menu			
Image Adjustments	Sharpness	0 – 24	12 = Disabled 11 - 0 = smoothing filter 13 – 24 = sharpness filter (only working on analogue inputs)
	Gamma	Off	Disable Gamma correction
		1.8	Modify output Gamma by selected correction table
		2.0	
		2.2	
2.4			
2.6			
Image Adjustments	Dynamic NR Mode	Off	Disable dynamic noise reduction
		Adaptive	Set noise filter strength dynamically depending on measured noise data
		Low	Set static noise reduction filter
		Medium	
		High	
		Max	
	MPEG NR Mode	On	Enable/Disable MPEG noise reduction to compensate MPEG/JPEG artefacts
		Off	
	DCDi	On	Enable/Disable "Directional Correlation DeInterlacing" that eliminates jagged edges during low-angle diagonal interpolation
		Off	
	Motion Processing	Off	Disable motion processing for interlaced inputs
		Adaptive	Combine normal de-interlacing with motion detection
		Normal	Odd and even filed will be outputted together
	Film Mode	Off	Disable film mode detection
		Video 2:2	Enable film mode detection using selected method
		Video 3:2	
	Decoder Settings	Video 3:2+2:2	
Y-Bias		Luminance bias for video decoder	
Y-Gain		Luminance gain of video decoder	
	C-Gain	Color gain of video decoder	

Main Menu			
Image Adjustments	Auto Adjust	Setup and settle input image automatically On success, mode data will be saved for this mode	
	Clock	Range dep. on input	Adjust horizontal total
	Phase	0 - 63	Adjust H-Phase
	Hor. Position	Range dep. on input	Shift image depending on H-Porches
	Ver. Position	Range dep. on input	Shift image depending on V-Porches

Main Menu			
Color Adjustment	Scheme	Off	Scheme is disabled
		Vivid	Vivid color scheme
		Cinema	Cinema color scheme
		Gaming	Gaming color scheme
	Backlight	0 - 100	Adjust intensity of backlight
	Brightness	0 - 100	Adjust digital brightness
	Contrast	0 - 100	Adjust digital contrast
	Color Temp.	User	Disable color temp. and activate user RGB adjustments
		4200K	Set color temperature to desired value in Kelvin
		5000K	
		6500K	
7200K			
9300K			
RGB	Red	Adjust user color Range 0 - 100	
	Green		
	Blue		
Saturation	0 - 100	Adjust Saturation (only possible on Video / SVideo)	
Hue	0 - 100	Adjust Hue (only possible on Video / SVideo)	
Auto Color Adjust	Calibrate internal ADC's		

Main Menu			
Scaling Adjustments	Main Scaling Mode	Full Screen	Zoom/shrink input to fully fit into display
		Letter Box	Select different Letter Box and Pillar Box scaling modes
		Pillar Box	
		Letter Box Expand	
		Pillar Box Expand	
		Native	1:1 scaling
	Zoom	Hor.	Horizontal zoom in %
		Ver.	Vertical zoom in %
	Zoom Pos.	Hor.	Select horizontal and vertical position of zoom window in %
		Ver.	

Main Menu				
Audio Settings	Volume	0 - 100	Master volume	
	Balance	-10 to +10	Balance between left and right audio channel	
	Bass	-10 to +10	Increase / decrease bass	
	Treble	-10 to +10	Increase / decrease treble	
	Auto Volume	On	Enable / Disable auto volume	
		Off	This keeps volume on master volume level	

Main Menu			
OSD Settings	OSD Timeout	0 - 60	OSD Timeout in seconds, 0 = Disable timeout
	OSD Hor. Pos.	0 - 100	Horizontal OSD position in %
	OSD Ver. Pos.	0 - 100	Vertical OSD position in %
	OSD Blend	0 - 10	OSD transparency 0 = No transparency 10 = maximum level of transparency
	OSD Orientation	0°	Rotation of OSD
		90°	
		180°	
		270°	
	OSD Language	English	OSD Language
		German	
French			
Italian			
Spanish			

Main Menu		
System Settings	Info	Main: DisplayPort 1920x1200@60Hz Firmware Version: V1.18 Jul 16 2015 Panel type: LM240WU9
	Mode Info	Main: DisplayPort 1920x1200@60Hz Mode Nr 5 STD H/V Total 2080-1234 H/V Start 112-32 Hor freq 74 kHz Sync pol H+ V-
	Restore user defaults	Restore saved user defaults
	Save user defaults	Save user defaults
	Reset factory default	Reset factory defaults This will load firmware defaults but not erase the previous saved user defaults

5. Drivers

Your newly purchased AMLCD display may have a Capacitive Touch Option. If it does, please install the driver from the CD supplied with your display. If you require further assistance, please contact Aydin Displays' Customer Service / Technical Support.

6. Maintenance

6.1 Preventive Maintenance

The only periodic maintenance recommended is exterior surface cleaning when necessary.

The window and exterior surfaces may be cleaned with standard non-abrasive glass cleaners applied with a soft cloth to avoid scratching the anti-reflective coating on the glass panel.

6.2 Corrective Maintenance

The only field corrective maintenance recommended is fuse replacement. Any other corrective maintenance should be deferred to the depot or factory.

6.3 Troubleshooting (No Picture)

- a) If no front panel indicators are lit, the most likely cause is no power input:
 - 1) Is power connected? (Make sure the power cord is fully seated.)
 - 2) Is the POWER switch ON?
 - 3) Is the fuse OK?

- b) If the Yellow NO SYNC indicator is lit, most likely the monitor is not receiving a video input or that video input is not selected as the Main Picture Channel Input. (See section 4.3)

6.4 Replaceable Parts

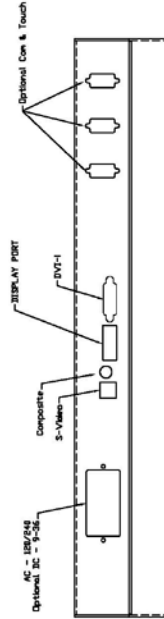
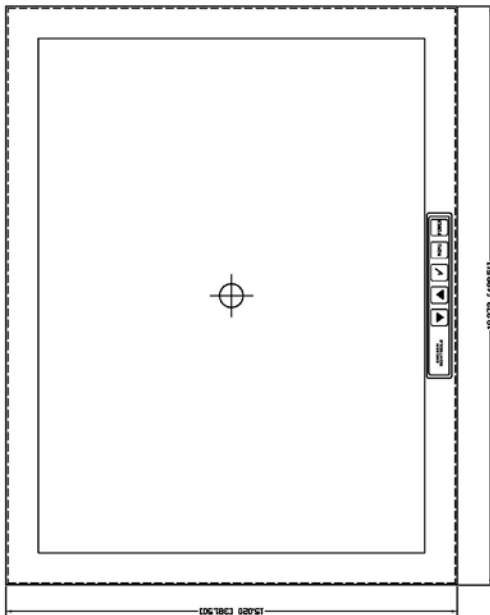
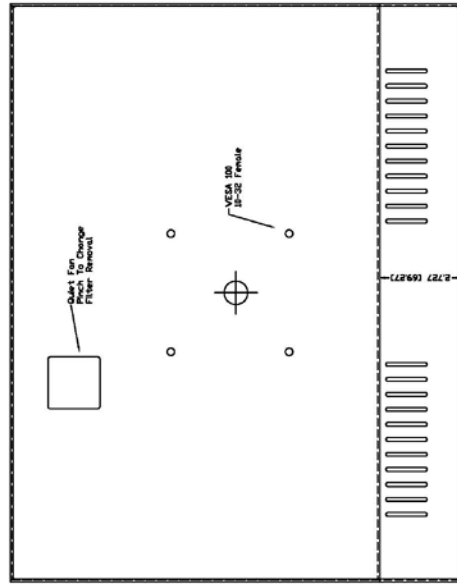
A spare fuse is provided with the LCD Display.

Fuse

Description:

Fuse, Glass, 3AG Slo-Blo, 2A/250V

7. Mechanical Drawing



DATE	BY	CHKD	APPD
10/10/2011	Y. H. CHEN		
PART NAME: 150-CFP-120 ASSY			
DRAWN BY: Y. H. CHEN			