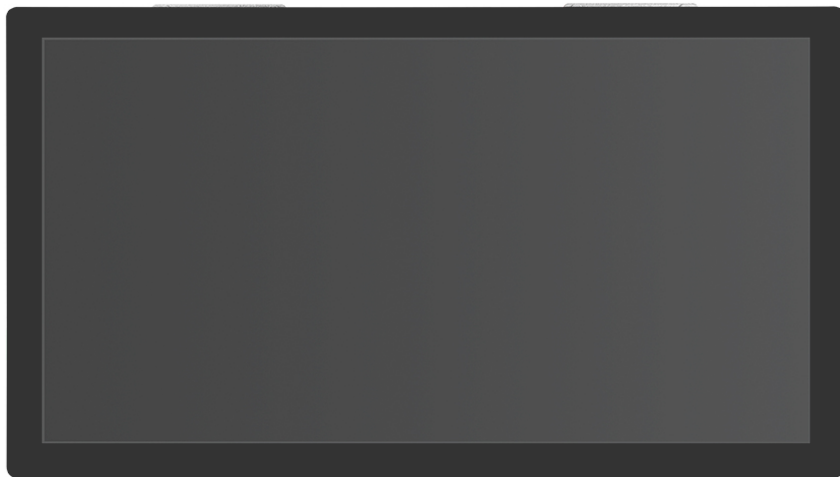**VISIONPRO**

21,5" LCD Monitor
Model: 150TFT[X]2154

Manual
Version 1.0 / December 2015

SUZOHAPP

Antonie van Leeuwenhoekstraat 9
3261 LT Oud Beijerland
The Netherlands

Phone :   +31(0)186-643333
Fax :   +31(0)186-643322
Email :   info@suzohapp.nl
Web :   eu.suzohapp.com

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1. **Introduction**

Congratulations with the purchase of your monitor. This LCD monitor is a color active matrix thin-film-transistor (TFT) liquid crystal (LCD) to provide superior display performance.

2. **Safety**

This monitor is only suitable for use in an interior environment where it's not sealed and not subject to dust, dirt, condensation (Pollution Degree 2) (IP20).

It is not allowed to connect appliances to the monitor which does not comply to SELV or Class II qualification.

Unplug the monitor from the power outlet before cleaning. Do not use alcohol (methyl, ethyl or isopropyl) or any strong dissolvent. Do not use thinner or benzene, abrasive cleaners or compressed air. To clean the monitor, use a cloth lightly damped with a mild detergent.

The slots located on the backside of the monitor case are for ventilation. Do not block or insert anything inside the ventilation slots.

It is important that your monitor remains dry. Do not pour liquid into or onto the monitor. If the monitor becomes wet do not attempt to repair it yourself.

If the liquid crystal materials leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, legs or clothes, it must be washed away thoroughly with soap.

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

3. **Model descriptions**

Part number	Description
150TFT2154	Monitor 21,5"
150TFTG2154	Monitor 21,5" with tempered glass

Further models to be announced

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4. **Monitor connection**

1. Connect the 12V power supply to the monitor.
2. Connect one end of the video cable to the computer and the other end to the monitor. Tighten by turning the two thumb screws clockwise to ensure proper grounding.
3. Connect one end of the touch screen cable to the computer and the other end to the monitor.
4. Press the power button on the rear panel to turn the monitor on.

5. **Monitor specifications**

Panel

Manufacturer	Part No.
LG	LM215WF3-SLN1

Absolute Maximum Ratings

Item	Unit	Min	Typical	Max	Remarks
Operating Temperature	°c	0	-	50	-
Storage Temperature	°c	-20	-	60	-
Operation Humidity	%	10	-	90	-
Storage Humidity	%	10	-	90	-

Input characteristics

Description	Signal	Unit	Min	Typical	Max	Remarks
Power in (2,5mm plug)						
	Input	VDC	11.4	12	12,6	
	Consumption	A	-	1.4	-	Mosaic pattern 8 x 6
RGB Input						
	Analog RGB	VPP	0	0.7	-	
	Sync	VDC	0	5	5.5	
	H Frequency	KHz	64	66	83	Depends on Mode
	V Frequency	Hz	50	60	75	Depends on Mode
DVI-D Input						
	DATA/CLK	VPP	450	500	900	Differential +/-

Display Characteristics

Item	Unit	Specifications
Screen Diagonal	[inch]	21.5
Active Area	[mm]	476.064 (H) x 267.786 (V)
Pixels		1920 x 1080
RoHS Compliance		RoHS Compliance

Optical Characteristics

Item	Unit	Conditions	Min.	Typ.	Max	Remarks
Surface Luminance, white	[cd/m2]		200	250	-	-
Contrast Ratio	C/R		700	1000	-	-
Response Time	[msec]	Gray to gray	-	14	25	-
Viewing Angle	[degree]	Horizontal (CR > 10)	170	178	-	-
	[degree]	Vertical (CR > 10)	170	178	-	

Signal Input (Analog RGB, TMDS(DVI))

Item	Description	Resolution
Supported Resolutions	XGA	1024x768
	720P (HD)	1280x720
	WXGA	1366x768
	SXGA	1280x1024
	WSXGA+	1680x1050
	1080P (FHD)	1920x1080

6. **Operation**

Color LED: This LED shows the state of the controller.
- Green is the "normal state".
- Red is the "Off mode". (Can't find Sync. signals)
- Amber is the "DPMS mode" (*Display Power Management Signaling).*

PC Settings: The PC needs to be set to an appropriate graphics mode that has the same resolution as the LCD panel to have clear screen image. The vertical refresh rate should be set to one of 56~75Hz, non-interlaced signal.

LCD display System Settings: The OSD (On Screen Display) provides certain functions to have clear image and others. This board supports 5 buttons OSD operation as a standard. The control functions defined on OSD operation are as below.

PC Graphics Output: Signal quality is very important. If there is noise or instability in the PC graphics output, it may result in visible noise on the display. Refer to the graphic modes table in specification section for supported modes. Non-interlaced & interlaced video input is acceptable.

**(If installed) USB cable:** Plug the USB cable to the connector on the backside of the monitor.

VGA cable: Plug the VGA cable to the connector on the backside of the monitor.

DVI-D Cable: Plug the DVI-D Cable (not included) to the connector on the backside of the monitor.

Power supply: Plug the 12V power supply (not included) to the connector on the backside of the monitor (separate power supply 182-0520).

Power on: Switch on the monitor by using the on/off switch on the OSD control buttons.

PC Setting: The controller has been designed to take a very wide range of input signals. However, to optimize the PC's graphic performance, we recommend choosing 60Hz vertical refresh rate. This will not cause screen flicker.
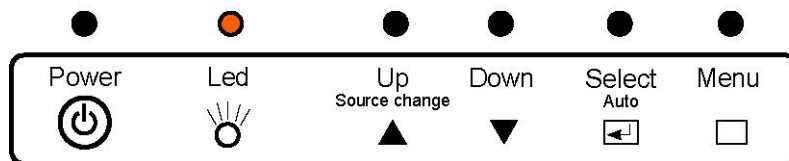
The chosen OSD settings will be stored in memory. The OSD menu can be cleared from the screen by moving the selection bar to the EXIT MENU icon pressing the SEL button. The OSD menu will automatically be cleared from the screen after a few second of non-use.

VISIONPRO

7. OSD MENU

[PICTURE]

PICTURE		
Brightness		80
Contrast		80
Sharpness		80

[COLOR]

COLOR		
Color Status Management	▶ NORMAL	
Red		80
Green		80
Blue		80
Auto Color	▶ To Start	

[SCREEN]

SCREEN		
Auto Configure	▶ To Start	
H Position		80
V Position		80
Clock		80
Phase		80

[OSD]

OSD		
Language	▶ English	
H Position		80
V Position		80
Transparency		80
OSD Time		10

[SETUP]

SETUP	
Source	▶ RGB
Factory reset	▶ To Start
Aspect	▶ Off
1024x768 60 Hz	
Version 1.05	

OSD GUI Control Table

MAIN	SUB MENU	CONTROL	
Picture	Brightness	50(0~100)	
	Contrast	50(0~100)	
	Sharpness	2(0 ~ 4)	
Color	Color Status Management	User(User, Warm, Normal, Cool)	
	Red	50(0~100)	PC ONLY
	Green	50(0~100)	
	Blue	50(0~100)	
	Auto Color	To Start	
Screen	Auto Configure	To Start	
	H Position	50(0~100)	PC ONLY
	V Position	50(0~100)	
	Clock	50(0~100)	
	Phase	30(0~100)	
OSD	Language	English(English, Deutsch, Francais, Italiano, Espanol, Korean)	
	H Position	50(0~100)	
	V Position	50(0~100)	
	Transparency	33 (0~100)	
	OSD Time	10(3~30)	
SETUP	Source	RGB, DVI, AUTO	
	Factory reset	To Start	
	Aspect	Off(On/Off)	

![VISIONPRO logo]

9. **Mounting instructions**

512,6 [MOUNT TO MOUNT]

204,0

14,3

33,3

14,3

204,0

307,6 [MOUNT TO MOUNT]

USER MOUNT - M4 [2X EACH SIDE]

VGA

DISPLAYPORT

12VDC

OSD BUTTONS

VESA MOUNT 100 X 100 - M4
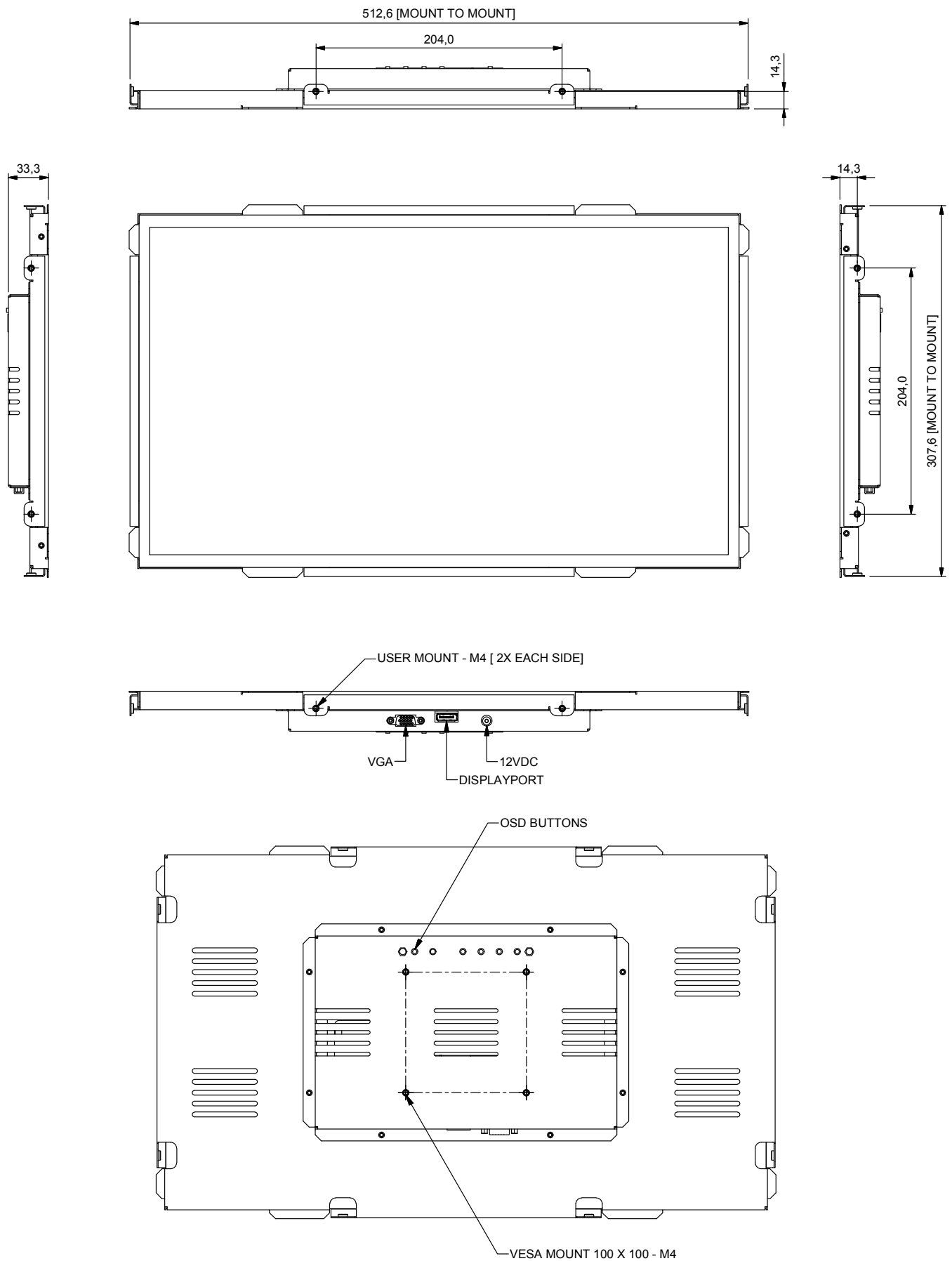
10. Accessories

Part number	Description	
150-0049	Power supply input 100/240V output 12V 5A	
22-0012-4	Power cable Euro lead 1.80M	
149-0112-11	VGA cable 1.80m	
149-0121	DVI-D Cable 2 mtr 18+1	