Product Validation Report

Product Name	**: MAV1532A**
Model Name	**: VLD15906**
Product Stage	**: MP**
Product No.	**: 1A2A15280200800**
Revision	**: A**

Prepared By : Joe Lin **Date : 2026/08/06**

Approved By : RongChi **Date : 2026/08/06**

Index & Content			
Part	**Test Item**	**Descriptions**	**Result**
S/W	Compatibility Test	To ensure compatibility between different OS and graphic card and must meet engineering and product spec.	**PASS**

Product Front View



Product Rear View



Available Connections



Compatibility Test

Test Engineer	Joe Lin	Date	2026/8/6	Stage	Result
				MP	PASS

Test Propose

To ensure compatibility between different OS and graphic card and must meet engineering and product spec.

Evaluation Environment

Temperature	24±2°C
Relative humidity	50%±10%(RH)

Evaluation Equipment

Processor	Intel ® Core™ i5-4440 CPU@3.10GHz	WIN 10 64BIT CPU i7-8700	WIN10 64BIT I5 6400
Graphics Card	NVIDIA Quadro K2000D-Driver392.00	WIN 10 64BIT 22H2 19045.6466	W5000 - 18.Q4
Test Equipment	VIDEO TEST GENERATOR VG 871	Nvidia Geforce GTX1060 6GB	

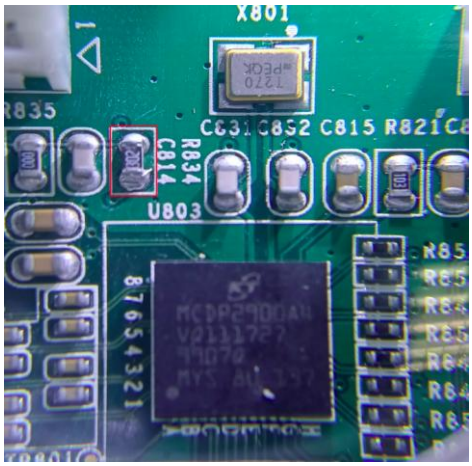
Evaluation Unit Level

LCD Type	AUO G150XTN03.5
Power Adapter	12V5.0A,FSP060-DHAN3,FSP
F/W Version	211230R0v01
Main Board	MSD92LCBW1
Controller Board	YD & Ever Glory P-CAP
Speaker	DVI-I, DP, HDMI, CVBS, Audio, RS232, RJ45
Interface Option	Anti-Glare,3H
Touch Panel Type	AR
Serial Number	RD220727001

Criteria

1. PC boot up, make sure monitor display normally. screen can't have any abnormality.
2. After monitor coming off suspend or screen saver, it must display normally.
3. Perform tests using graphic card and make sure no blank, blinking or other abnormal displays.
4. Follow Engineering Spec/Product Spec

R834 , 3K 電阻/5% 改成 3K 電阻/1%
因更換地方是 DP TO HDMI Converter IC 旁的週邊線路,所以到時候請針對DP 去做測試



Compatible Test							
Source Type	Desktop						
PC Name	WIN 10 64BIT CPU i7-8700						
O.S.	WIN 10 64BIT 22H2 19045.6466						
Graphic Card	Nvidia Geforce GTX1060 6GB						
Source Connector	DP						
Monitor Connector	DP						

Compatible Function Test			
Test Item	Compatibility Test Description	Result	Note
Plug and Play Function Test	Normal Boot-Up	Pass	
	Normal Shutdown	Pass	
	Normal Reboot	Pass	
	Power Saving	Pass	
	Hot plug DP cable and check the screen's image quality,repeat 150 times.	Pass	
OSD Function Test	Brightness	No Test	
	Color Mode	No Test	
	Startup Status Message	No Test	
	Display timing information	No Test	
Power Management Test	Sleep while the monitor is DC off	No Test	
	Sleep while the monitor is AC off	No Test	
	Repeat sleep power management 5 times	No Test	
	Startup Status	No Test	
Input Switch Test	Auto Source on/off Check	No Test	
	Switch Inputs With Active Source (5 times)	No Test	
	Switch Inputs With Inactive Source (5 times)	No Test	

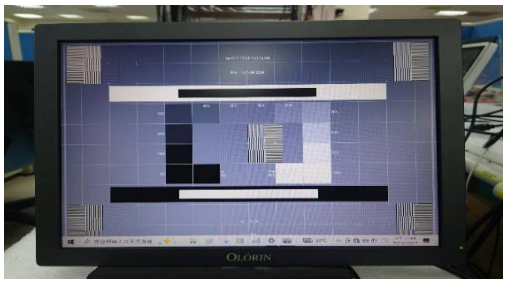
Resolution Test					
Display Timing	Description	Result	Monitor Source	Result	Note
1024x768 75Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	No Test	VGA	No Test	
			DVI	No Test	
			HDMI	No Test	
			DP	N/A	
1024x768 70Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	No Test	VGA	No Test	
			DVI	N/A	
			HDMI	N/A	
			DP	N/A	
1024x768 60Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	Pass	VGA	No Test	
			DVI	No Test	
			HDMI	No Test	
			DP	Pass	
800x 600 70Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	No Test	VGA	No Test	
			DVI	N/A	
			HDMI	N/A	
			DP	N/A	
800x 600 72Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	No Test	VGA	No Test	
			DVI	N/A	
			HDMI	N/A	
			DP	N/A	
800x 600 60Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	Pass	VGA	No Test	
			DVI	No Test	
			HDMI	No Test	
			DP	Pass	
720x400 56Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	No Test	VGA	No Test	
			DVI	N/A	
			HDMI	N/A	
			DP	N/A	
640x 480 75Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	No Test	VGA	No Test	
			DVI	N/A	
			HDMI	N/A	
			DP	N/A	
640x 480 72Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	No Test	VGA	No Test	
			DVI	N/A	
			HDMI	N/A	
			DP	N/A	
640x 480 60Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	Pass	VGA	No Test	
			DVI	No Test	
			HDMI	No Test	
			DP	Pass	
1280x 1024 75Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	No Test	VGA	No Test	
			DVI	N/A	
			HDMI	N/A	
			DP	N/A	
1280x 1024 60Hz	1. The screen must be able to display the specified resolution without any abnormality or distortion of the picture. 2. Confirm that all input signal sources can output this resolution.	Pass	VGA	No Test	
			DVI	No Test	
			HDMI	No Test	
			DP	Pass	

Support Timing Test					
Pattern Generator	Astro VG 859C		Astro VG 871B	Chroma 2403	
Test procedure				Result	Note
1. Validated according to the resolution standards provided by Engineer Spec.				Pass	
2. Verify the input source signal for each resolution and confirm the same frequency (approximation).				Pass	
3. Verify Scaling for each resolution and input source.				Pass	
4. Make sure that the screen does not appear blank or flash when switching between different Timing.				Pass	

Resolution	V Frequency (Hz)	H Frequency (kHz)	Source	Result	Note
720x400	70Hz	31.5 kHz	VGA	No Test	
			DVI	No Test	
			HDMI	N/A	Diisplay timing no support
			DP	N/A	Diisplay timing no support
640x480	60 Hz	31.5 kHz	VGA	No Test	
			DVI	No Test	
			HDMI	No Test	
			DP	Pass	
640x480	72 Hz	37.9 kHz	VGA	No Test	
			DVI	N/A	Diisplay timing no support
			HDMI	N/A	Diisplay timing no support
			DP	N/A	Diisplay timing no support
640x480	75 Hz	37.5 kHz	VGA	No Test	
			DVI	N/A	Diisplay timing no support
			HDMI	N/A	Diisplay timing no support
			DP	N/A	Diisplay timing no support
800x600	56 Hz	35.1 kHz	VGA	No Test	
			DVI	N/A	Diisplay timing no support
			HDMI	N/A	Diisplay timing no support
			DP	N/A	Diisplay timing no support
800x600	60 Hz	37.8 kHz	VGA	No Test	
			DVI	No Test	
			HDMI	No Test	
			DP	Pass	
800x600	72 Hz	48.1 kHz	VGA	No Test	
			DVI	N/A	Diisplay timing no support
			HDMI	N/A	Diisplay timing no support
			DP	N/A	Diisplay timing no support

Resolution	V Frequency (Hz)	H Frequency (kHz)	Source	Result	
800x600	75 Hz	46.9 kHz	VGA	**No Test**	
			DVI	**N/A**	Diisplay timing no support
			HDMI	**N/A**	Diisplay timing no support
			DP	**N/A**	Diisplay timing no support
1024x768	60 Hz	48.3 kHz	VGA	**No Test**	
			DVI	**No Test**	
			HDMI	**No Test**	
			DP	**Pass**	
1024x768	70 Hz	56.4 kHz	VGA	**No Test**	
			DVI	**N/A**	Diisplay timing no support
			HDMI	**N/A**	Diisplay timing no support
			DP	**N/A**	Diisplay timing no support
1024x768	75 Hz	60 kHz	VGA	**No Test**	
			DVI	**N/A**	Diisplay timing no support
			HDMI	**N/A**	Diisplay timing no support
			DP	**N/A**	Diisplay timing no support
1280x1024	60 Hz	67.5 kHz	VGA	**No Test**	
			DVI	**No Test**	
			HDMI	**No Test**	
			DP	**Pass**	
1280x1024	75 Hz	63.9 kHz	VGA	**No Test**	
			DVI	**N/A**	Diisplay timing no support
			HDMI	**N/A**	Diisplay timing no support
			DP	**N/A**	Diisplay timing no support

Image Quality Test				
Test procedure			**Result**	**Note**
1. Open Test software and select different patterns for testing.			Pass	
2. Check whether the various Patterns screens are normal, and there should be no distortion or breakage.			Pass	
3. Verify against different resolutions.			Pass	
4. Tap the monitor to confirm if the screen will flash			Pass	
Pattern Test Description			**Result**	**Note**
Grayscale	Switch display to different gamma setting using 64/128/256 grayscales, check for over saturate lines, dots, color uniformity and smooth transition, check 64/128/256 grayscales for over saturated color,line, dots, make sure they are smooth.		Pass	
Color Bar	Use color bar pattern, check for over saturate lines, dot using Auto Color Balance to auto correct if issue occurs. Make sure Auto Color Balance works And check analog RGB signals, color bar.		Pass	
Line	Use Geometry Pattern, check for line patterns within the viewing area making sure all lines are displayed properly. If analog RGB signals, use Auto adjust to calibrate the display viewing area.		Pass	
Text	Check Text patterns, make sure text are focused and clear to read. If analogRGB signals, use Auto Adjust to calibrate the display. One dot: Use one dot on/off test pattern, check for flickers, shaking, and discolor. If analog RGB signals, use Auto Adjust to calibrate the display.		Pass	
Picture	Use pattern Gen or PC to display color pictures. Check for discoloration, over saturated lines, and dots.		Pass	
Video	Use DVD player or PC to play videos, check to see if the video has flickers, shaking, synchronized, or frame delay issues.		Pass	
Resolution	**Test Software**	**Pattern**	**Result**	**Note**
640x480 60Hz	TOSHIBA/DMW	Grayscale	Pass	
		Color Bar	Pass	
		Line	Pass	
		Text	Pass	
		Picture	Pass	
		Video	Pass	
800x600 60Hz	TOSHIBA/DMW	Grayscale	Pass	
		Color Bar	Pass	
		Line	Pass	
		Text	Pass	
		Picture	Pass	
		Video	Pass	
1024x768 60Hz	TOSHIBA/DMW	Grayscale	Pass	
		Color Bar	Pass	
		Line	Pass	
		Text	Pass	
		Picture	Pass	
		Video	Pass	
1280x1024 60Hz	TOSHIBA/DMW	Grayscale	Pass	
		Color Bar	Pass	
		Line	Pass	
		Text	Pass	
		Picture	Pass	
		Video	Pass	

PHOTO OF TEST	
SMPTE133 Test Pattern	Grayscale Test Pattern
	
Line Test Pattern	Text Test Pattern
	
Colorbar Test Pattern	
	