AUO Display Plus Corporation

Product End of Life Notice

Model Name

P320HVN02.0

Prepared by: Wallace Lin

Wallace Lin, PM

Approved by: Kenney Chen

Kenney Chen, PM Manager

For ACMEPOINT internal use only – provided by Paul Lai on 2023/03/1

1.Purpose

Due to product planning, P320HVN02.0 model will be EOL and replaced by succeeding model P320HVN02.3.

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2.Recommended Replacement Model

To cope with the continuing market, demand for better performance products,

AUO Display Plus Corporation is pleased to introduce the advanced replacement models to serve customers.

To-be EOL Model		Replacement Model
P320HVN02.0	→	P320HVN02.3

3.Planned Schedule

Official EOL Notice	Mar. 01, 2023
Last Buy Order Confirmation	June. 23, 2023
Last Shipment	Dec. 15, 2023

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4.Others

P320HVN02.0 EOL

General Spec.

Model name	P320HVN02.0	P320HVN02.3
Brightness (typ.)	500 nit	←
BLU Type	ELED	←
Resolution	1920 x 1080	←
LC Type	Adv. Wide Temp (–40°C~110°C)	←
Active Area (mm)	698.4 x 392.85	←
LCM Outline (mm)	719.2 x 413.7	←
Thickness (mm)	26.3 (Front bezel to wall mount)	←
Bezel Width	7.9/7.9/7.9/7.9 (U/D/L/R)	←
Bezel Back Material	0.6t, SECC	←
Chromaticity (Wxy)	(0.280, 0.290)	(0.313, 0.329)
Color Gamut	NTSC 72%	←
POL. Type	Haze, AG2%	←
LED Life	MTTF, 50000 hrs	←
Operation temp.	0°C~50°C	←

Name: _____ Title: _____

Signature: _____ Date: _____

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DIVA displays better.

SUBJECT: **EMI Test for TSD-PT321W-1AH**

Customer Name:	MEE	Model Name:	TSD-PT321W-1AH
Sample Phase:	ES	New Parts Approval	☑ Yes ☐ No
PM Approve	Shinichi	EE Approve	Daniel
ME Approve	Ferris	Tech. Reviewer:	Rongchi
Measurement Condition			
Test Laboratory	AUDIX	Test site	10M open site
Test Rule	CE	Frequency Range	30~1000 MHz
Test Mode	HDMI mode	Test Result	☑ PASS ☐ Fail
Resolution:	1080*1920 / 60Hz	Pattern:	“H” Patten
Test PC	AUDIX_ PC	Test peripheral	N/A
Key Component list:			
Main Board:	2AAD264R138	Panel No.	AUO P320HVN2.3
Scalar :	RTD2485	Firmware ver.:	TSD-PT321W-1AH_230814R3V01
PCB layers	4	Firmware (SSC):	N/A
Power Board:	DELTA, 24V3.75A MDS-090AAS24	Cable	DVI-HDMI cable 15M

Test Summary

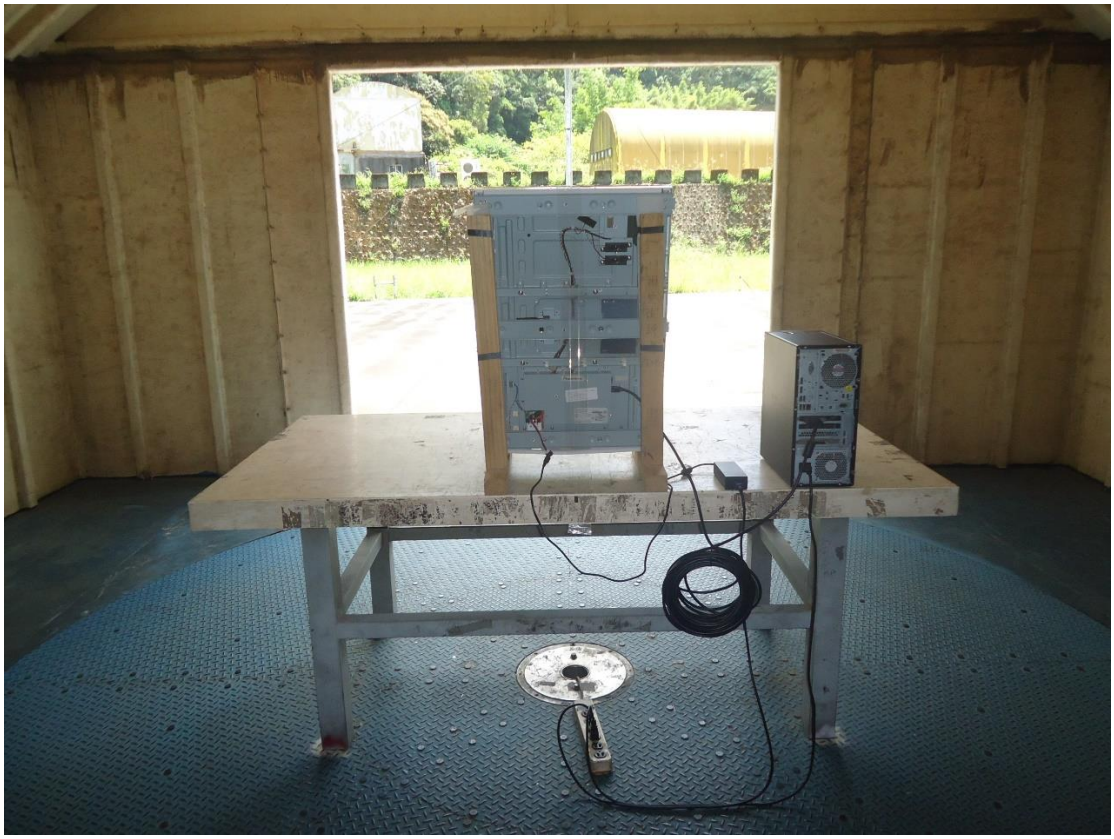
Panel：AUO P320HVN2.3

EMI Class B → PASS

Issuer: Eric	Date: 2023/08/29

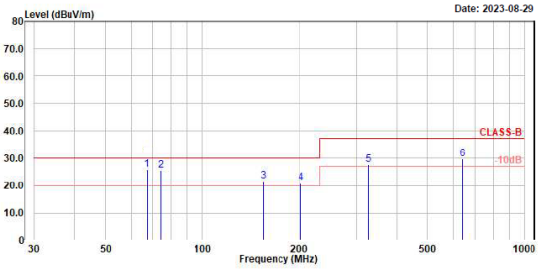
2. Test Setup：





3. Test Data：

AUDIX Technology Corp. EMC Department
Tel: +886 2 2609 2133 Fax: +886 2 2609 9303
Email: emc@audixtech.com
Website : www.audixtech.com



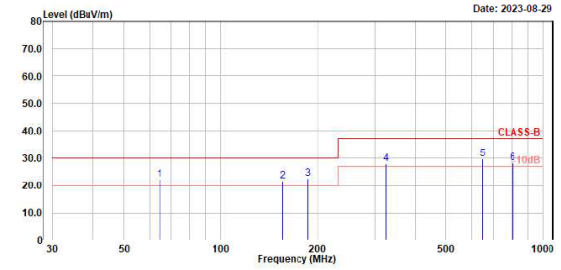
Site No. : No.6 Open Area Test Site
Instrument 1 : Spectrum N9010A(212)|Receiver ESCS(337)
Instrument 2 : CBL6112B (818)|RE-07
Distance/Limit : 10m /CLASS-B
Environment : 27°C/61%
EUT Model : TSD-PT321W-1AH
Test Mode : 1080*1920/60Hz HDMI-DVI
Ant. Pol. : Vertical
Test Rating : 100Vac/50Hz
Engineer : Eason Hsu

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	APos (cm)	TPos (deg)
1	67.750	13.01	1.14	10.51	24.66	30.00	5.34	QP		
2	74.510	13.32	1.21	9.80	24.33	30.00	5.67	QP		
3	154.052	16.90	1.91	2.61	21.42	30.00	8.58	QP		
4	201.628	15.86	2.37	2.62	20.85	30.00	9.15	QP		
5	325.618	20.50	2.82	4.05	27.37	37.00	9.63	QP		
6	641.510	25.71	4.16	-0.28	29.59	37.00	7.41	QP		

Remarks: 1. Emission Level(dBµV/m)= Antenna Factor(dB/m) + Cable Loss(dB) + Reading(dBµV).

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Instrument 1 : Spectrum N9010A(212)|Receiver ESCS(337)
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Distance/Limit : 10m /CLASS-B
Environment : 27°C/61%
EUT Model : TSD-PT321W-1AH
Test Mode : 1080*1920/60Hz HDMI-DVI
Ant. Pol. : Horizontal
Test Rating : 100Vac/50Hz
Engineer : Eason Hsu

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark	APos (cm)	TPos (deg)
1	64.500	13.08	1.11	7.91	22.10	30.00	7.90	QP		
2	155.618	16.81	1.93	2.78	21.52	30.00	8.48	QP		
3	185.600	15.67	2.27	4.51	22.45	30.00	7.55	QP		
4	324.510	20.47	2.81	4.62	27.90	37.00	9.10	QP		
5	650.410	25.75	4.20	-0.48	29.47	37.00	7.53	QP		
6	804.100	26.55	4.78	-3.34	27.99	37.00	9.01	QP		

Remarks: 1. Emission Level(dBµV/m)= Antenna Factor(dB/m) + Cable Loss(dB) + Reading(dBµV).

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END

Hot start

Test Engineer	Jim Lin	Date	2023/9/11	Stage	Result
				PP	PASS

Test Propose

To check the suitability and characteristics of the product in high temperature to which it may be exposed.

Evaluation Unit Level

Temperature	25ºC±2ºC
Reltative Humidity	50%±10%(RH)

Evaluation Equipment

Computer	Intel core i7 8700		
Graphics Card	GTX 1060 - 388.13		
O.S.	Windows7 32bit		
Evaluation Equipment	EXTECH AC POWER SOURCE CFW-105	TERCHY Chamber MHG-408L(901257)	

Evaluation Unit Level

LCD	AUO P320HVN2.3
Main Board	2AAD264R138
Power Board	MDS-090AAS24 (DELTA, 24V3.75A)
F/W Version	TSD-PT321W-1AH_230814R3V01

Test Standard

MEE Reliability Analysis Specification

Test Condition

Not in operation , After leaving it the highest acceptable temperature, +5°C for 6 hours as it is, immediately start it.

Criteria

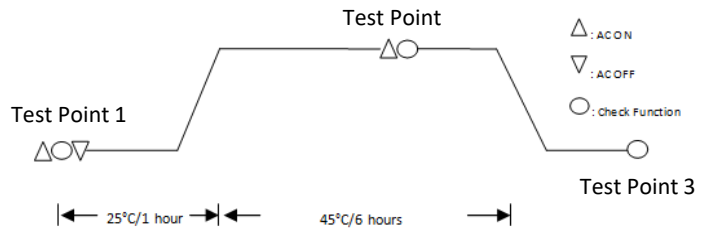
It shall normally start up and operate.

Test Procedure	Result	Note
1. Place the test display in the constant temperature chamber and set temperature inside the chamber to the specified temperature.	Pass	
2. Confirm make sure the display OSD function brightness set to minimum and open full white pattern.	Pass	
3. After leaving in the chamber for 3 hours or more after reaching the test temperature (set not operating), cold in the same atmosphere	Pass	
4. Confirm after leaving it the highest acceptable temperature, +5°C for 3 hours or more as it is, and immediately start it.	Pass	

Test Condition

Applied Voltage	90V/60Hz	Brightness	0	Resolution	1920X1080/60Hz(DP)
Temperature	45ºC	Test Pattern	Full White Pattern	Test Duration	6 hours

Environment Curve



Function Check			Test Point 1	Test Point 2	Test Point 3	Note
Electronic	OSD Control Function	OSD Light Bar Adjust	Pass	Pass	Pass	
		Brightness	Pass	Pass	Pass	
		Contrast	Pass	Pass	Pass	
		Color Mode	Pass	Pass	Pass	
		OSD Display	Pass	Pass	Pass	
		Recall	Pass	Pass	Pass	
		OSD Information Check	Pass	Pass	Pass	
Led Indication Check	Green-> Input signal is stable		Pass	Pass	Pass	
	Orange-> Power saving or no signal		Pass	Pass	Pass	
Touch Function Check	USB touch device check		Pass	Pass	Pass	
	Confirm USB touch function is normal		Pass	Pass	Pass	
	Power AC/DC on/off and USB touch normal operation		Pass	Pass	Pass	

Cold start

Test Engineer	Jim Lin	Date	2023/9/12	Stage	Result
				PP	PASS

Test Propose

To check the suitability and characteristics of the product in low temperature to which it may be exposed.

Evaluation Unit Level

Temperature	25°C±2°C
Reltative Humidity	50%±10%(RH)

Evaluation Equipment

Computer	Intel core i7 8700		
Graphics Card	GTX 1060 - 388.13		
O.S.	Windows7 32bit		
Evaluation Equipment	EXTECH AC POWER SOURCE CFW-105	TERCHY Chamber MHG-408L(901257)	

Evaluation Unit Level

LCD	AUO P320HVN2.3
Main Board	2AAD264R138
Power Board	MDS-090AAS24 (DELTA, 24V3.75A)
F/W Version	TSD-PT321W-1AH_230814R3V01

Test Standard

MEE Reliability Analysis Specification

Test Condition

Not in operation After leaving it the lowest acceptable temperature, -5°C for 6 hours as it is, immediately start it.

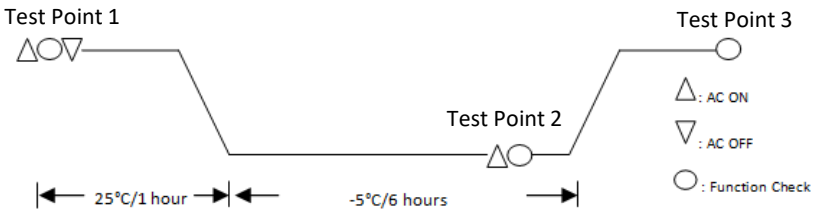
Criteria

It shall normally start up and operate.

Test Procedure	Result	Note
1. Place the test display in the constant temperature chamber and set temperature inside the chamber to the specified temperature.	Pass	
2. Confirm make sure the display OSD function brightness set to minimum and open full white pattern.	Pass	
3. After leaving in the chamber for 3 hours or more after reaching the test temperature (set not operating), cold in the same atmosphere	Pass	
4. Confirm after leaving it the lowest acceptable temperature, -5°C for 3 hours or more as it is, and immediately start it.	Pass	

Test Condition					
Applied Voltage	90V/60Hz	Brightness	0	Resolution	1920X1080/60Hz(DP)
Temperature	-5ºC	Test Pattern	Full White Pattern	Test Duration	6 hours

Environment Curve



Function Check			Test Point 1	Test Point 2	Test Point 3	Note
Electronic	OSD Control Function	OSD Light Bar Adjust	Pass	Pass	Pass	
		Brightness	Pass	Pass	Pass	
		Contrast	Pass	Pass	Pass	
		Color Mode	Pass	Pass	Pass	
		OSD Display	Pass	Pass	Pass	
		Recall	Pass	Pass	Pass	
		Version (Model Name and F/W Version)	Pass	Pass	Pass	
		OSD Information Check	Pass	Pass	Pass	
Led Indication Check	Green-> Input signal is stable		Pass	Pass	Pass	
	Orange-> Power saving or no signal		Pass	Pass	Pass	
Touch Function Check	USB touch device check		Pass	Pass	Pass	
	Confirm USB touch function is normal		Pass	Pass	Pass	
	Power AC On/Off and USB touch normal operation		Pass	Pass	Pass	

Temperature Cycle Test

Test Engineer	Jim Lin	Date	2023/9/13-9/15	Stage	Result
				PP	PASS

Test Propose

To check that characteristics of product is proper when it is exposed to Possible temperature when starting-up and during operation.

Evaluation Unit Level

Temperature 24±2(ºC)/Humidity 50±10%RH

Evaluation Equipment

Computer	Intel core i7 8700		
Graphics Card	GTX 1060 - 388.13		
O.S.	Windows7 32bit		
Evaluation Equipment	TERCHY Chamber MHG-408L(901257) Instrument calibration date : 2018/9/17		

Evaluation Unit Level

LCD	AUO P320HVN2.3
Main Board	2AAD264R138
Power Board	MDS-090AAS24 (DELTA, 24V3.75A)
F/W Version	TSD-PT321W-1AH_230814R3V01

Criteria

The screen width position and other items shall be checked. The screen quality including video characteristics, noise, and screen functions shall not deteriorate. The specification shall be satisfied.

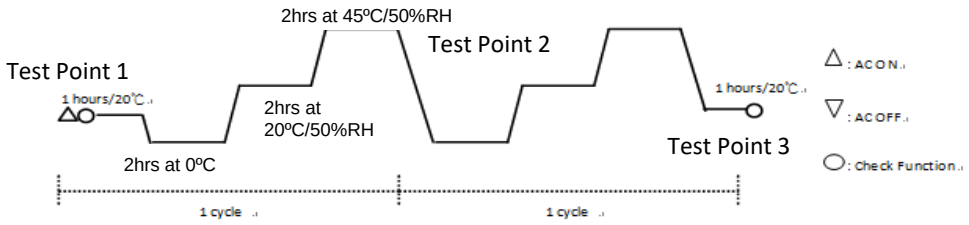
Test Standard：

Reference IEC60068-2-14 Testing procedures

Test Nb : Change of temperature test

Test Condition：

1. Resolution : 1920X1080/60Hz(DP)
2. Chamber Temperature : 2hrs at 0ºC
   2hrs at 20ºC/50%RH
   2hrs at 45ºC/50%RH
   Total of 8 cycles
3. Applied Voltage : 110V/60Hz
4. OSD Preset setting.
5. Test times : 72 hours
6. Test Pattern : General Pattern
7. Test environment curve :



Temperature Cycle Test						
Test procedure					**Result**	**Note**
1. Place the test machine in Chamber.					Pass	
2. Set the conditions of the test machine.(Brightness/Color mode/ALS).					Pass	
3. Set the temperature change program to change the temperature every two hours, 0ºC/20ºC/45ºC for one cycle, and verify 8 cycles.					Pass	
4 Please confirm the following items after verification.					Pass	
Function Check			**Test Point 1**	**Test Point 2**	**Test Point 3**	**Note**
Electronic	OSD	OSD Function Check	Pass	Pass	Pass	
		OSD Light Bar Adjust	Pass	Pass	Pass	
		Image Quality	Pass	Pass	Pass	
		Color Temperature/Gamma	Pass	Pass	Pass	
		Recall Function	Pass	Pass	Pass	
	System	Not No Power/Black Screen /Noise	Pass	Pass	Pass	
		Normal Boot-Up	Pass	Pass	Pass	
		Normal Shutdown	Pass	Pass	Pass	
		Normal Reboot	Pass	Pass	Pass	