

【秘密】 【Confidential】

General Spec for PC monitor

MODEL NAME :
DD-E244FL
DD-E244FLW

Version : 1.0
Date : Jul/31, 2025

Monitor Development Department
1st Development Division

Designed by :	<u>T.Miyake</u>	<u>S.Kurihara</u>
Checked by :	<u>-</u>	<u>-</u>
Approve by :	<u>N.Kano</u>	<u>-</u>

Sharp NEC Display Solutions,Ltd.

Document Number: 07FT4MAM-N

REVISION HISTORY

Ver	Date	Description	Designed	Checked	Approved
1	2025/7/31	1st release	T.Miyake S.Kurihara	-	N.Kano

		Brand change Rev.1 DD-E244FL	Brand change Rev.1 DD-E244FLW	Brand change Rev.1 DD-E244FL
1. Destination-Color		Aver-BK	Bver-WH	Bver-BK
1.1. Model Name/Brand/Platform/Color	Series name	MultiSync	MultiSync	MultiSync
	Model name 形名	DD-E244FL	DD-E244FLW	DD-E244FL
	Application name for agency 規格申請名	DD-E244FL	DD-E244FLW	DD-E244FL
	Size information for spec list (cm)	60.47	60.47	60.47
	on Catalogue / Manual (inch)	23.8inch	23.8inch	23.8inch
	Inch information for Carton box 包装箱 (inch)	24 inch	24 inch	24 inch
	Brand name ブランド名	SHARP	SHARP	SHARP
	Platform プラットフォーム	-	-	-
	Color	Black	White	Black
1.2. Factory/Release date	Manufacturing	Factory 製造工場 MTC	MTC	MTC
	Country 製造国	China	China	China
	Release	Year 発売年 2025年	2025年	2025年
	Month 発売月	8月	8月	8月
1.3. Code/ID	Product code 商品コード (8桁)	07FT3MAM	07FT3MBM	07FT4MBM
	Model number 型番	M242FT(4M)-BK(A)SHFD	M242FT(3M)-WH(B)SHFD	M242FT(4M)-BK(B)SHFD
	Model ID 形名ID	A3DDE244FLBU	A3DDE244FLWE	A3DDE244FLBE
	Panel code	M	M	M
	Serial 3rd digit	M (Serial 2nd digit)	M (Serial 2nd digit)	M (Serial 2nd digit)
	Revision code	1A	1A	1A
	UPC	074000705135	-	-
	EAN	-	4550556177658	4550556177641
	GS code	-	-	-
	JAN	-	-	-
	USB Vendor/Product ID	Vendor ID Product ID	-	-
	EDID Product code	D-SUB DVI-D HDMI1	-	-
		0x263E	0x263E	0x263E
		-	-	-
	miniDP(1.1a)	-	-	-
	miniDP(1.1a.w/o sound)	-	-	-
	DisplayPort(1.1a)	0x263F	0x263F	0x263F
	DisplayPort(1.1a.w/o sound)	-	-	-
	DisplayPort(1.2.SST)	-	-	-
	DisplayPort(1.2.SST.w/o sound)	-	-	-
	DisplayPort(1.2.MST)	-	-	-
	DisplayPort(1.2.MST.w/o sound)	-	-	-
	DisplayPort(1.2.MST)	-	-	-
	DisplayPort(1.2.MST.w/o sound)	-	-	-
	USB-C(1.1a)	0x2640	0x2640	0x2640
	USB-C(1.1a.w/o sound)	-	-	-
	USB-C(1.2.SST)	-	-	-
	USB-C(1.2.SST.w/o sound)	-	-	-
	USB-C(1.2.MST)	-	-	-
	USB-C(1.2.MST.w/o sound)	-	-	-
	HDMI(2.0b)	-	-	-
	DisplayPort(1.2)	-	-	-
	DisplayPort(1.2 w/o sound)	-	-	-
	USB-C(1.2)	-	-	-
	USB-C(1.2 .w/o sound)	-	-	-
	HDMI(2.0/4DR)	-	-	-
	HDMI(2.0)	-	-	-
	HDMI(1.4)	-	-	-
	HDMI(2.0/4DR)	-	-	-
	HDMI(2.0)	-	-	-
	HDMI(1.4)	-	-	-
	DisplayPort(1.2/4DR/with Sound)	-	-	-
	DisplayPort(1.2/with Sound)	-	-	-
	DisplayPort(1.2/without Sound)	-	-	-
	DisplayPort(2.1/2/4DR/with Sound)	-	-	-
	DisplayPort(2.1/2/with Sound)	-	-	-
	DisplayPort(2.1/2/without Sound)	-	-	-
	USB-C (4lane)(1.2/4DR/with Sound)	-	-	-
	USB-C (4lane)(1.2/with Sound)	-	-	-
	USB-C (4lane)(1.2/without Sound)	-	-	-
	USB-C (4lane)(1.1a/with Sound)	-	-	-
	USB-C (2lane)(1.2/4DR/with Sound)	-	-	-
	USB-C (2lane)(1.2/with Sound)	-	-	-
	USB-C (2lane)(1.2/without Sound)	-	-	-
2. Panel spec.				
2.1. Supplier/Model name	Panel Manufacturer パネル製造者	MTC	MTC	MTC
	Panel name パネル形名	PN238CS02-2	PN238CS02-2	PN238CS02-2
2.2. Size/Weight	Module size 外形寸法	Horizontal Vertical	534.04mm 307.76mm	534.04mm 307.76mm
	Bezel to Bezel Area(Opening area)	Horizontal Vertical	- -	- -
	Active Display Area 有効表示領域	Horizontal Vertical	527.04mm 296.46mm	527.04mm 296.46mm
	(Reference)	Diagonal (inch)	23.8inch	23.8inch
	(Reference)	Diagonal (cm)	60.47cm	60.47cm
	Weight 重量 (typ.)		496g	496g
	Weight 重量 (Max.)		-	-
2.3. Optical/Electrical	LC Driving method 液晶駆動方式	IPS type	IPS type	IPS type
	LC Driver Element 液晶駆動素子	a-Si TFT active matrix	a-Si TFT active matrix	a-Si TFT active matrix
	Number of pixel	Horizontal Vertical	1920 1080	1920 1080
	Pixel pitch	Horizontal Vertical	0.275mm 0.275mm	0.275mm 0.275mm
	Pixel per inch	PPI	93	93
	Maximum Dot defect		5	5
	Dot defect rate		0.00008%	0.00008%
	Vsync Frequency	Typ.	50-75Hz	50-75Hz
	Back light	Element	LED	LED
	Method	Bottom Edge	Bottom Edge	Bottom Edge
	Back light control type	DC	DC	DC
	Operating Life Time		30000hour	30000hour
	Luminance of White 全白輝度	Typ.	250cd/m*2	250cd/m*2
	(Panel specification)	Min.	200cd/m*2	200cd/m*2
	Brightness(calibration capable range)	Max.	250cd/m*2	250cd/m*2
		Min.	50cd/m*2	50cd/m*2
	Contrast Ratio コントラスト比	Typ.	1200:1	1200:1
		Min.	1000:1	1000:1
	Contrast Ratio (Dynamic)		17000:1	17000:1
	Response time(G to G)	Typ.	14ms	14ms
	(Response Improve: OFF)	Max.	-	-
	Response time(G to G)	Typ.	6.0ms	6.0ms
	(Response Improve: ON)	Max.	-	-
	Response time(White to Black) TF	Typ.	-	-
		Max.	-	-
	Response time(Black to White) TR	Typ.	-	-
		Max.	-	-
	Response time(White to Black to white) TF+TR	Typ.	-	-
		Max.	-	-
	Color Gamut(Cover ration)	vs NTSC Typ.	70.6%	70.6%
		vs sRGB Typ.	95.6%	95.6%
		vs Adobe RGB Typ.	74.0%	74.0%
	Color Gamut(Area ration)	vs NTSC Typ.	73.8%	73.8%
		vs sRGB Typ.	104.2%	104.2%
		vs Adobe RGB Typ.	77.2%	77.2%
	Color Chromaticity	Rx Typ.	0.647	0.647
		Ry Typ.	0.337	0.337
		Gx Typ.	0.322	0.322
		Gy Typ.	0.621	0.621
		Bx Typ.	0.150	0.150
		By Typ.	0.053	0.053
		Wx Typ.	0.313	0.313
		Wy Typ.	0.329	0.329
		Rxv, Gxv, Bxv Max.	Typ. + 0.03	Typ. + 0.03
		Rx Max.	0.677	0.677
		Ry Max.	0.367	0.367
		Gx Max.	0.352	0.352
		Gy Max.	0.651	0.651
		Bx Max.	0.180	0.180
		By Max.	0.083	0.083
		Wx Max.	0.343	0.343
		Wy Max.	0.359	0.359
		Rxv, Gxv, Bxv Min.	Typ. - 0.03	Typ. - 0.03
		Rx Min.	0.617	0.617
		Ry Min.	0.307	0.307
		Gx Min.	0.292	0.292

3.2. Power consumption & Power supply	Crest factor	@100V	-	-	-	
		@230V	3%	3%	3%	
	Power consumption	On mode Typ. (Factory setting)	19W	19W	19W	
		On mode Typ. (Brightness Max)	23W	23W	23W	
		On mode Max. (All function work)	107W	107W	107W	
		Apparent power(at 100VAC)	160VA	160VA	160VA	
		Apparent power(at 240VAC)	168VA	168VA	168VA	
		ECO mode*1* Power consumption	-	-	-	
		ECO mode*1* Brightness range	0~70%	0~70%	0~70%	
		ECO mode*2* Power consumption	-	-	-	
		ECO mode*2* Brightness range	0~30%	0~30%	0~30%	
		Power saving mode(for IT monitor)	0.50W	0.50W	0.50W	
		DC off(for IT monitor)	0.30W	0.30W	0.30W	
		Default setting of USB functionality(USB power)	OFF	OFF	OFF	
		Power supply	Power output 1	USB1	USB1	USB1
	Voltage(Max.)		5.0V	5.0V	5.0V	
	Current(Max.)		900mA	900mA	900mA	
	Power		4.5W	4.5W	4.5W	
	Power output 2		USB2	USB2	USB2	
	Voltage(Max.)		5V	5V	5V	
	Current(Max.)		900mA	900mA	900mA	
	Power		4.5W	4.5W	4.5W	
	Power output 3		DP power(DPin)	DP power(DPin)	DP power(DPin)	
	Voltage(Max.)		3.3V	3.3V	3.3V	
	Current(Max.)		500mA	500mA	500mA	
	Power		1.7W	1.7W	1.7W	
	Power output 4		USB-C PD	USB-C PD	USB-C PD	
	Voltage(Max.)		20V	20V	20V	
	Current(Max.)		3000mA	3000mA	3000mA	
Power	60.0W		60.0W	60.0W		
Power output 5	n/a		n/a	n/a		
Voltage(Max.)						
Current(Max.)						
Power						
Power output 6	n/a	n/a	n/a			
Voltage(Max.)						
Current(Max.)						
Power						
Power output 7	n/a	n/a	n/a			
Voltage(Max.)						
Current(Max.)						
Power	0W	0W	0W			
3.4. EMI Class						
EMI Class		Class B	Class B	Class B	Class B	
3.5. Usage environment						
Storage environment 保管環境	Storage Temp. Max. (C)	60°C	60°C	60°C	60°C	
	Storage Temp. Max. (F)	140F	140F	140F	140F	
	Storage Temp. Min. (C)	-10°C	-10°C	-10°C	-10°C	
	Storage Temp. Min. (F)	14F	14F	14F	14F	
	Storage humidity Max.	85%	85%	85%	85%	
	Storage humidity Min.	10%	10%	10%	10%	
	Storage Altitude (ft.)	40000ft	40000ft	40000ft	40000ft	
	Storage Altitude (m)	12192m	12192m	12192m	12192m	
	Operation Temp. Max. (C)	35°C	35°C	35°C	35°C	
	Operation Temp. Max. (F)	95F	95F	95F	95F	
	Operation Temp. Min. (C)	5°C	5°C	5°C	5°C	
	Operation Temp. Min. (F)	41F	41F	41F	41F	
	Operation humidity Max.	80%	80%	80%	80%	
	Operation humidity Min.	20%	20%	20%	20%	
	Operation Altitude (m)	5000m	5000m	5000m	5000m	
	Operation Altitude (ft.)	16404ft	16404ft	16404ft	16404ft	
	24hours/7days usage	No	No	No	No	
	3.6. Carton/Transport					
	Design Type of Carton Box	WW ver.	WW(A,B)ver	WW(A,B)ver	WW(A,B)ver	WW(A,B)ver
	Material of Carton Box	Kraft Innerboard and trifolded corrugated board (Double wall)	Kraft Innerboard and trifolded corrugated board (Double wall)	Kraft Innerboard and trifolded corrugated board (Double wall)	Kraft Innerboard and trifolded corrugated board (Double wall)	Kraft Innerboard and trifolded corrugated board (Double wall)
Gross Dimensions	Gross Width (mm)	670.0mm	670.0mm	670.0mm	670.0mm	
	(in.)	26.4in.	26.4in.	26.4in.	26.4in.	
	Gross Height (mm)	390.0mm	390.0mm	390.0mm	390.0mm	
	(in.)	15.4in.	15.4in.	15.4in.	15.4in.	
	Gross Depth (mm)	180.0mm	180.0mm	180.0mm	180.0mm	
Gross weight	(in.)	7.1in.	7.1in.	7.1in.	7.1in.	
	(lbs)	8.3kg	8.3kg	8.3kg	8.3kg	
Container loading Q'ty	20ft	480unit	480unit	480unit	480unit	
	40ft	960unit	960unit	960unit	960unit	
Palletized(Max.)	HC40R	-	-	-	-	
	Pallet Width	1140mm	1140mm	1140mm	1140mm	
	Pallet Depth	1360mm	1360mm	1360mm	1360mm	
Stacking	units/pallet/40ft	60units	60units	60units	60units	
	units/pallet/HC40R	-	-	-	-	
	MAX layer at 1pallet	5units	5units	5units	5units	
Stacking	Stacking limit by number (indicate to CARTON)	9units	9units	9units	9units	
	MAX layer at warehouse	10units	10units	10units	10units	
Transport condition	Need to always use PALLET	Yes	Yes	Yes	Yes	
3.7. Warranty/MTBF						
Limited Warranty		3year(s)	3year(s)	3year(s)	3year(s)	
MTBF	excluding LCD module, MIL-217E(hours)	-	-	-	-	
	excluding LCD module, MIL-217F(hours)	67600	67600	67600	67600	
	including all components, MIL-217E(hours)	-	-	-	-	
	including all components, MIL-217F(hours)	-	-	-	-	
4. Terminal & Slot						
4.1. Video terminal						
Video input terminal	HDMI Input	HDMI (HDMI1.4)	HDMI (HDMI1.4)	HDMI (HDMI1.4)	HDMI (HDMI1.4)	
		-	-	-	-	
	DisplayPort Input	DisplayPort (DisplayPort)	DisplayPort (DisplayPort)	DisplayPort (DisplayPort)	DisplayPort (DisplayPort)	
		USB Type-C (DisplayPort)	USB Type-C (DisplayPort)	USB Type-C (DisplayPort)	USB Type-C (DisplayPort)	
		-	-	-	-	
		-	-	-	-	
		-	-	-	-	
	DVI Input	-	-	-	-	
	VGA Input	-	-	-	-	
	Video Input	-	-	-	-	
	Video output terminal	Number of terminal	3	3	3	3
		HDMI Output	-	-	-	-
		DisplayPort Output	-	-	-	-
		Number of Terminal	0	0	0	0
4.2. Audio terminal						
Audio input terminal	HDMI	HDMI	HDMI	HDMI	HDMI	
		DisplayPort	DisplayPort	DisplayPort	DisplayPort	
		USB Type-C	USB Type-C	USB Type-C	USB Type-C	
		-	-	-	-	
		-	-	-	-	
	Audio output terminal	Number of Terminal	3	3	3	3
			Head phone out (Stereo Mini Jack)	Head phone out (Stereo Mini Jack)	Head phone out (Stereo Mini Jack)	Head phone out (Stereo Mini Jack)
4.3. USB terminal						
USB Terminal	Upstream (to host)	USB1 (USB Type-C)	USB1 (USB Type-C)	USB1 (USB Type-C)	USB1 (USB Type-C)	
		-	-	-	-	
		-	-	-	-	
		-	-	-	-	
		-	-	-	-	
	Number of terminal	1	1	1	1	
	Downstream (to device)	USB1 (USB Type-A)	USB1 (USB Type-A)	USB1 (USB Type-A)	USB1 (USB Type-A)	
		USB2 (USB Type-A)	USB2 (USB Type-A)	USB2 (USB Type-A)	USB2 (USB Type-A)	
		-	-	-	-	
	Number of terminal	2	2	2	2	
	Other	-	-	-	-	
	Number of terminal	0	0	0	0	
	4.4. Communications terminal					
	Control Terminal	LAN	LAN (RJ-45)	LAN (RJ-45)	LAN (RJ-45)	LAN (RJ-45)
-			-	-	-	
1			1	1	1	
-			-	-	-	
-			-	-	-	
USB		-	-	-	-	
		-	-	-	-	
		-	-	-	-	
Number of terminal		0	0	0	0	
RS-232C		-	-	-	-	
Number of terminal		0	0	0	0	
ControlSync input		-	-	-	-	
Connector type of ControlSync		-	-	-	-	
Max number of connected sub monitor via ControlSync		-	-	-	-	

		Other	-	-	-
			-	-	-
4.5. Slot					
	SD card slot	Number of slot	-	-	-
	Interface for extended options		-	-	-
5. In-out signal					
5.1. Analog RGB input					
	Terminal 1	Terminal name	-	-	-
		Connector type	-	-	-
		Max Resolution	-	-	-
		Horizontal frequency Max.	~	~	~
		Horizontal frequency Min.	~	~	~
		Vertical frequency Max.	~	~	~
		Vertical frequency Min.	~	~	~
		Video clock frequency Max.	~	~	~
		Video clock frequency Min.	~	~	~
		Video Signal Level	-V _{p-p}	-V _{p-p}	-V _{p-p}
		Video Signal Impedance	-	-	-
		Separate sync. TTL Level	-	-	-
		Composite sync. TTL Level	-	-	-
		Sync on Green: 0.3V _{p-p} negative	-	-	-
		Color type	-	-	-
		DDC/CI	-	-	-
5.2. DVI input					
	Terminal 1	Terminal name	-	-	-
		Connector type	-	-	-
		Max Resolution	-	-	-
		Horizontal frequency Max.	~	~	~
		Horizontal frequency Min.	~	~	~
		Vertical frequency Max.	~	~	~
		Vertical frequency Min.	~	~	~
		Dot clock frequency Max.	~	~	~
		Dot clock frequency Min.	~	~	~
		Interface	-	-	-
		Color type	-	-	-
		Dual-Link	-	-	-
		HDCP	-	-	-
		DDC/CI	-	-	-
5.3. HDMI input					
	Terminal 1	Terminal name	HDMI	HDMI	HDMI
		Connector type	HDMI (Type A)	HDMI (Type A)	HDMI (Type A)
		Max Resolution	1920x1080@60	1920x1080@60	1920x1080@60
		Horizontal frequency Max.	~81.1kHz	~81.1kHz	~81.1kHz
		Horizontal frequency Min.	31.5kHz~	31.5kHz~	31.5kHz~
		Vertical frequency Max.	~75Hz	~75Hz	~75Hz
		Vertical frequency Min.	50Hz~	50Hz~	50Hz~
		Dot clock frequency Max.	~165MHz	~165MHz	~165MHz
		Dot clock frequency Min.	25MHz~	25MHz~	25MHz~
		Interface	-	-	-
		HDMI version	1.4	1.4	1.4
		Color type	RGB	RGB	RGB
		Deep Color	No	No	No
		HDCP ver.	1.4	1.4	1.4
		CEC	No	No	No
	Terminal 2	Terminal name	-	-	-
		Connector type	-	-	-
		Max Resolution	-	-	-
		Horizontal frequency Max.	~	~	~
		Horizontal frequency Min.	~	~	~
		Vertical frequency Max.	~	~	~
		Vertical frequency Min.	~	~	~
		Dot clock frequency Max.	~	~	~
		Dot clock frequency Min.	~	~	~
		Interface	-	-	-
		HDMI version	-	-	-
		Color type	-	-	-
		Deep Color	-	-	-
		HDCP	-	-	-
		CEC	-	-	-
5.4. DisplayPort input					
	Terminal 1	Terminal name	DisplayPort	DisplayPort	DisplayPort
		Connector type	DisplayPort	DisplayPort	DisplayPort
		Max Resolution	1920x1080@60	1920x1080@60	1920x1080@60
		Horizontal frequency Max.	~81.1kHz	~81.1kHz	~81.1kHz
		Horizontal frequency Min.	31.5kHz~	31.5kHz~	31.5kHz~
		Vertical frequency Max.	~75Hz	~75Hz	~75Hz
		Vertical frequency Min.	50Hz~	50Hz~	50Hz~
		Dot clock frequency Max.	~165MHz	~165MHz	~165MHz
		Dot clock frequency Min.	25MHz~	25MHz~	25MHz~
		DisplayPort Version	1.2	1.2	1.2
		Color type	RGB(8bit)	RGB(8bit)	RGB(8bit)
		Bit rate	RBR/HBR	RBR/HBR	RBR/HBR
		MST	No	No	No
		HDCP	1.3	1.3	1.3
	Terminal 2	Terminal name	USB Type-C	USB Type-C	USB Type-C
		Connector type	USB Type-C	USB Type-C	USB Type-C
		Max Resolution	1920x1080@60	1920x1080@60	1920x1080@60
		Horizontal frequency Max.	~81.1kHz	~81.1kHz	~81.1kHz
		Horizontal frequency Min.	32kHz~	32kHz~	32kHz~
		Vertical frequency Max.	~75Hz	~75Hz	~75Hz
		Vertical frequency Min.	50Hz~	50Hz~	50Hz~
		Dot clock frequency Max.	~165MHz	~165MHz	~165MHz
		Dot clock frequency Min.	25MHz~	25MHz~	25MHz~
		DisplayPort Version	1.2	1.2	1.2
		Color type	RGB(8bit)	RGB(8bit)	RGB(8bit)
		Bit rate	RBR/HBR	RBR/HBR	RBR/HBR
		MST	No	No	No
		HDCP	1.3	1.3	1.3
	Terminal 3	Terminal name	-	-	-
		Connector type	-	-	-
		Max Resolution	-	-	-
		Horizontal frequency Max.	~	~	~
		Horizontal frequency Min.	~	~	~
		Vertical frequency Max.	~	~	~
		Vertical frequency Min.	~	~	~
		Dot clock frequency Max.	~	~	~
		Dot clock frequency Min.	~	~	~
		DisplayPort Version	-	-	-
		Color type	-	-	-
		Bit rate	-	-	-
		MST	-	-	-
		HDCP	-	-	-
5.5. Audio input					
	Analog Audio	Terminal	No	No	No
		Connector type	-	-	-
		Support Signal	-	-	-
	Digital Audio (HDMI)	Terminal	HDMI	HDMI	HDMI
		Support Signal	PCM 32, 44.1, 48kHz (16, 20, 24bit)	PCM 32, 44.1, 48kHz (16, 20, 24bit), 2ch	PCM 32, 44.1, 48kHz (16, 20, 24bit), 2ch
	Digital Audio (DisplayPort)	Terminal	DisplayPort, USB Type-C	DisplayPort, USB Type-C	DisplayPort, USB Type-C
		Support Signal	PCM 32, 44.1, 48kHz (16, 20, 24bit)	PCM 32, 44.1, 48kHz (16, 20, 24bit), 2ch	PCM 32, 44.1, 48kHz (16, 20, 24bit), 2ch
5.6 Support timings (for User's manual)					
	640 x 480	60Hz (p)	Yes	Yes	Yes
	640 x 480	67Hz (p)	No	No	No
	640 x 480	72Hz (p)	No	No	No
	640 x 480	75Hz (p)	No	No	No
	720 x 400	70Hz (p)	No	No	No
	720 x 480	60Hz (p)	Yes	Yes	Yes
	720 x 480	60Hz (i) HDMI only	No	No	No
	720 x 576	50Hz (p)	Yes	Yes	Yes
	720 x 576	50Hz (i) HDMI only	No	No	No
	800 x 600	56Hz (p)	Yes	Yes	Yes
	800 x 600	60Hz (p)	Yes	Yes	Yes
	800 x 600	72Hz (p)	No	No	No
	800 x 600	75Hz (p)	No	No	No
	1024 x 768	60Hz (p)	Yes	Yes	Yes
	1024 x 768	70Hz (p)	No	No	No
	1024 x 768	75Hz (p)	No	No	No
	1280 x 720	24Hz (p)	No	No	No
	1280 x 720	25Hz (p)	No	No	No
	1280 x 720	30Hz (p)	No	No	No
	1280 x 720	50Hz (p)	Yes	Yes	Yes
	1280 x 720	60Hz (p)	Yes	Yes	Yes
	1280 x 960	60Hz (p)	Yes	Yes	Yes
	1280 x 960	75Hz (p)	No	No	No
	1280 x 1024	60Hz (p)	Yes	Yes	Yes
	1280 x 1024	75Hz (p)	No	No	No
	1280 x 1440	60Hz (p) for Multi picture	No	No	No
	1440 x 900	60Hz (p)	Yes	Yes	Yes
	1600 x 1200	60Hz (p)	No	No	No

	180 x 1050	60Hz (p)	Yes	Yes	Yes
	1920 x 1080	24Hz (p)	No	No	No
	1920 x 1080	25Hz (p)	No	No	No
	1920 x 1080	30Hz (p)	No	No	No
	1920 x 1080	50Hz (p)	Yes	Yes	Yes
	1920 x 1080	60Hz (p)	Yes	Yes	Yes
	1920 x 1080	50Hz (i)	No	No	No
	1920 x 1080	60Hz (i)	No	No	No
	1920 x 1200	60Hz (p)	No	No	No
	1920 x 2160	60Hz (p) for Multi picture	No	No	No
	2560 x 1440	60Hz (p)	No	No	No
	3840 x 2160	60Hz (p)	No	No	No
	3840 x 2160	30Hz (p)	No	No	No
	4096 x 2160	60Hz (p)	No	No	No

Output signal							
6.1. HDMI output							
	Terminal 1	Terminal name	No	No	No	No	No
		Connector type	-	-	-	-	-
		Signal that can be output	-	-	-	-	-
		HDCP	-	-	-	-	-
		Daisy Chain Support	-	-	-	-	-
		Max number of connections w/o HDCP	-	-	-	-	-
		Max number of connections with HDCP	-	-	-	-	-
6.2. DisplayPort output							
	Terminal 1	Terminal name	No	No	No	No	No
		Connector type	-	-	-	-	-
		Signal that can be output	-	-	-	-	-
		DisplayPort Version	-	-	-	-	-
		HDCP	-	-	-	-	-
		Daisy Chain Support (DP or USB-C)	-	-	-	-	-
		Max number of connections in MST, w/o HDCP	-	-	-	-	-
		Max number of connections in MST, with HDCP	-	-	-	-	-
		Max number of connections in SST, w/o HDCP	-	-	-	-	-
		Max number of connections in SST, with HDCP	-	-	-	-	-
		Daisy Chain Support (DP or USB-C)	-	-	-	-	-
		Max number of connections in MST, w/o HDCP	-	-	-	-	-
		Max number of connections in MST, with HDCP	-	-	-	-	-
		Max number of connections in SST, w/o HDCP	-	-	-	-	-
Max number of connections in SST, with HDCP	-	-	-	-	-		
6.3. Audio output							
	Terminal 1	Terminal name	HEAD PHONE OUT	HEAD PHONE OUT	HEAD PHONE OUT	HEAD PHONE OUT	
		Connector type	Stereo Mini Jack	Stereo Mini Jack	Stereo Mini Jack	Stereo Mini Jack	
		Analog/Digital	Analog	Analog	Analog	Analog	
		Signal	Stereo L/R	Stereo L/R	Stereo L/R	Stereo L/R	
6.4. Speaker							
	Integrated Speaker	Support	Yes	Yes	Yes	Yes	
		Spec	Stereo 1W + 1W	Stereo 1W + 1W	Stereo 1W + 1W	Stereo 1W + 1W	
	Option Speaker	Support	No	No	No	No	
		Spec	Not support	Not support	Not support	Not support	

7. Function					
7.1. User Interface	Multi-lingual OSD	Support	Yes	Yes	Yes
		Languages	English	English	English
			German	German	German
			French	French	French
			Spanish	Spanish	Spanish
			Italian	Italian	Italian
			Swedish	Swedish	Swedish
			Polish	Polish	Polish
			Russian	Russian	Russian
			Japanese	Japanese	Japanese
			Chinese	Chinese	Chinese
		-	-	-	
		-	-	-	
		-	-	-	
		Number of support languages	10	10	10
	Control key	Support	Yes, Integrated	Yes, Integrated	Yes, Integrated
		Button Type	Mechanical	Mechanical	Mechanical
		Buttons	5Direction Key	5Direction Key	5Direction Key
IR Remote control	Number of buttons				
	Support	No	No	No	
7.2. Connectivity with external equipment	USB hub	Support	Yes, Integrated	Yes, Integrated	Yes, Integrated
		Version	3.1 Gen1	3.1 Gen1	3.1 Gen1
	USB - Connect to storage device	Support	No	No	No
		USB Version	No	No	No
	USB - Display Control by PC	Support	No	No	No
		USB Version	No	No	No
	USB Power Delivery	Support	Yes	Yes	Yes
		Power Delivery Revision	3	3	3
	SD / microSD	Power Delivery Alternative Mode	DisplayPort support	DisplayPort support	DisplayPort support
		SD card support	No	No	No
		SDHC card support	No	No	No
		SDXC card support	No	No	No
		microSD card support	No	No	No
		microSDHC card support	No	No	No
		microSDXC card support	No	No	No
	RS-232C	Input	No	No	No
		Daisy chain	No	No	No
	LAN	10 BASE-T support	No	No	No
		100 BASE-TX support	No	No	No
		1000 BASE-T support	Yes	Yes	Yes
	Wired Remote (mini pin jack)	Support protocol	Not support	Not support	Not support
Input (Gray connector)		No	No	No	
Output (Black connector)		No	No	No	
Microphone	Support	No	No	No	
	Headphone	Support	Yes	Yes	
	ControlSync®	ControlSync input (Gray connector)	No	No	No
Plug and Play	ControlSync output (Black connector)	No	No	No	
	Slave monitors qty (Max.)	n/a	n/a	n/a	
	Support by VESA ODC2®	Yes	Yes	Yes	
	Support by DDC/CI	Yes	Yes	Yes	
	Support by DisplayPort	Yes	Yes	Yes	
7.3. Picture control	Color control	Support	Yes	Yes	Yes
		SpectraView Engine	Support	No	No
	Local dimming	Generation	-	-	-
		Support	No	No	No
		Switch ON/OFF	No	No	No
		Number of partitions, Horizontal	-	-	-
	Picture Mode	Number of partitions, Vertical	-	-	-
		Total number of Control Blocks	-	-	-
		Support	Yes	Yes	Yes
		Available modes	5000K	5000K	5000K
			sRGB	sRGB	sRGB
			9300K	9300K	9300K
			LowBlueLight	LowBlueLight	LowBlueLight
			USER	USER	USER
			-	-	-
			-	-	-
			-	-	-
			-	-	-
	-		-	-	
	-	-	-		
	Expanding modes for lower resolutions	Full screen	Selectable	Selectable	Selectable
		1:1 (pixel correct)	n/a	n/a	n/a
		Normal (Keeping aspect ratio)	Selectable	Selectable	Selectable
Wide (Expands a 16:9 letter box signal)		n/a	n/a	n/a	
Dynamic (Expand 4:3 pictures and cut off the outside image area)		n/a	n/a	n/a	
Custom zoom (Keeping aspect ratio and zoom)		n/a	n/a	n/a	
Frame Comp		Support	No	No	
Edge Comp		Support	No	No	
Picture In Picture		Support	No	No	
Picture By Picture		Support	No	No	
Tile Matrix	Picture by Picture(AUTO)	No	No	No	
	Support	No	No	No	
	Max number	No	No	No	

	Real time clock	Support	No	No	No
	Scheduler	Support	No	No	No
	Off Timer	Support	No	No	No
	Power on delay	Support	No	No	No
7.5. Reliability					
	Running Hours Indicate	Support	Yes	Yes	Yes
	Self diagnostic	Support	No	No	No
	Notification method		n/a	n/a	n/a
7.6. Power saving					
	VESA DPMS	Compliant	Yes	Yes	Yes
	Ambient light sensor	Support	No	No	No
	Human detective sensor	Default setting	n/a	n/a	n/a
		Support	No	No	No
		Sensor type	n/a	n/a	n/a
		Default setting	n/a	n/a	n/a
		detective distance(Maximum)	n/a	n/a	n/a
		Sleep mode power(Human sensor1)	n/a	n/a	n/a
		Sleep mode power(Human sensor2)	n/a	n/a	n/a
	Vacation switch		No	No	No
		Location	n/a	n/a	n/a
7.7. Touch panel					
	Touch panel capability	Support	No	No	No
		Prepare space for Touch Panel	n/a	n/a	n/a
		Prepare space for Control PCBA	n/a	n/a	n/a
		Prepare screw hole to fix	n/a	n/a	n/a
		Prepare connector for Power supply	n/a	n/a	n/a
		Prepare I/F to PC	n/a	n/a	n/a
	Integrated Touch panel	Support	No	No	No
		Sensor vendor	n/a	n/a	n/a
		Sensor product name	n/a	n/a	n/a
		Method	n/a	n/a	n/a
		Resolution	n/a	n/a	n/a
		Touch accuracy	n/a	n/a	n/a
		Multi-touch	n/a	n/a	n/a
		Interface	n/a	n/a	n/a
		Operating System	n/a	n/a	n/a
7.8. Shipment setting					
		DV MODE	ON	ON	ON
		ECO MODE	OFF	OFF	OFF
		Uniformity Correction	n/a	n/a	n/a
		Response improve	ON	ON	ON
8. Bundled items					
8.1. Power cord/AC adapter					
	AC adapter		No	No	No
	AC POWER CORD (US type)		Yes	No	No
		Length	1.8m	n/a	n/a
		Color	Black	n/a	n/a
	AC POWER CORD (EU type)		No	Yes	Yes
		Length	n/a	1.8m	1.8m
		Color	n/a	White	Black
	AC POWER CORD (Ch type)		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	AC POWER CORD (JP type)		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	AC POWER CORD (UK type)		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	AC POWER CORD (Au type)		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
8.2. Accessory					
	Remote Control Unit		No	No	No
		AA Battery x2	No	No	No
		AAA Battery x2	No	No	No
	VGA - VGA cable		n/a	n/a	n/a
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	VGA - DVI-A cable		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	DVI-D - DVI-D cable		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	DisplayPort to DisplayPort cable		Yes	Yes	Yes
		Length	1.8m	1.8m	1.8m
		Color	Black	Gray	Black
	DisplayPort mini to DisplayPort cable		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	HDMI to HDMI cable		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	USB-A to USB-B cable		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	USB-C to USB-C cable		Yes(USB PD, DP Alternate mode	Yes(USB PD, DP Alternate mode USB3.0)	Yes(USB PD, DP Alternate mode USB3.0)
		Length	1.0m	1.0m	1.0m
		Color	Black	Gray	Black
	Audio cable(φ 3.5mm stereo mini plug)		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	ControlSync cable(φ 2.5mm stereo micro plug)		No	No	No
		Length	n/a	n/a	n/a
		Color	n/a	n/a	n/a
	Stand base		Yes	Yes	Yes
		Color	Black	White	Black
	Stand Neck		No	No	No
		Color	n/a	n/a	n/a
	Cable holder		Yes	Yes	Yes
		Color	n/a	n/a	n/a
	VESA plate(Bracket)		No	No	No
		Plate Color	n/a	n/a	n/a
		Screw quantity	n/a	n/a	n/a
		Screw Color	n/a	n/a	n/a
	Cap for DPout (Attached to monitor)		No	No	No
	Cap for USB host (Attached to monitor)		No	No	No
	Fixture	Clamper and Screw	No	No	No
		Number of Clamper & Screw	n/a	n/a	n/a
		Wall mount screw with washer	No	No	No
		Size of Wall mount screw & washer	n/a	n/a	n/a
		Color of Wall mount screw & washer	n/a	n/a	n/a
		Number of Wall mount screw & washer	n/a	n/a	n/a
8.3. Attached document					
	CD-ROM (Software & Documentation)		No	No	No
	Paper Manual	Paper Manual Full (A ver)	No	No	No
		Paper Manual Full (B ver)	No	No	No
		Paper Manual Full (JAPAN)	No	No	No
		Paper Manual Full (W ver)	No	No	No
		Paper Manual 1sheet type (Taiwan, Korea) (W ver)	No	No	No
		Paper Manual Full (RU, BY, KZ) (W ver)	No	No	No
	Setup Manual	Setup Manual (1st)	Yes(Aver)	Yes(Bver)	Yes(Bver)
		Setup Manual (2nd)	No	No	No
		Setup Manual (3rd)	No	No	No
	Contents sheet	Contents sheet (1st)	No	No	No
		Contents sheet (2nd)	No	No	No
	Addendum sheet for head only model	Addendum sheet (1st)	No	No	No
		Addendum sheet (2nd)	No	No	No
	California Proposition sheet		No	No	No
	Setting info sheet		No	No	No
	Warranty Card	Warranty Card (China)	No	No	No
		Warranty Card (Japan)	No	No	No
	NaViSet Administrator 2 flyer		No	No	No
	Sheet for regulation	EEL label and EEL SHEET	No	Yes (with Fiche)	Yes (with Fiche)
		UK EEI label and UK EEI SHEET	No	Yes (with Fiche)	Yes (with Fiche)
		UK EEI Fiche	No	No	No
		UK Import Information Sheet	No	No	No
		CE Information Sheet	No	No	No
		EC62368-1 GND Sheet	No	No	No
		EnergyStar 6.0 sheet	No	No	No
		WEEE sheet	No	No	No
	CEL Sheet		No	No	No
	Factory Calibration and Verification Report		No	No	No
	Addendum sheet for head angle limitation		No	No	No
	DV MODE addendum sheet		No	No	No
	Sheet for USB setting		No	No	No
	Company name change notice sheet		No	No	No
9. Regulation					
9.1. Safety					

	ULIC-JUL (US/Canada)	Yes	Yes	Yes
	TUV-GS	Yes	Yes	Yes
	ProdSG (Germany)	No	Yes	Yes
	CB Report	Yes	Yes	Yes
	PSB (Singapore)	Yes(Running change)	Yes(Running change)	Yes(Running change)
	NOM (Mexico)	Yes	No	No
	Rating label	2.0A	n/a	n/a
9.2. Safety+EMC	RAM or TUV Argentina S (Argentina)	No	No	No
	India BIS	No	No	No
	SASO (Saudi Arabia)	No	No	No
		-	-	-
	CE Marking (EU)	Yes	Yes	Yes
	CCC (China)	Yes(Running change)	Yes(Running change)	Yes(Running change)
	EAC (Russia)	No	No	No
9.3. EMC	BSMI (Taiwan)	No	No	No
	KC (Korea)	No	No	No
	NSP (Korea)	No	No	No
	S-TUV or S-JQA (Japan)	No	No	No
	電安法/PSE Japan safety (Japan)	No	No	No
		-	-	-
		-	-	-
9.4. Ergonomics	FCC/ICES-003 (US/Canada)	Yes	Yes	Yes
	FCC/BETS7 (US/Canada, for TV)	n/a	n/a	n/a
	RCM (Australia/New Zealand)	Yes(Running change)	Yes(Running change)	Yes(Running change)
	VCCI (Japan)	No	No	No
	資源省規格 JIS C61000-3-2 (Japan)	No	No	No
	JEITA 電磁波かたやう性 (Japan)	No	No	No
	JEITA 電磁波かたやう性 (Japan)	No	No	No
9.5. Environmental	JEITA IT-3001A (Immunity) (Japan)	No	No	No
		-	-	-
	TUV-Ergonomics (Germany)	Yes	Yes	Yes
	ISO9241-307	Yes	Yes	Yes
	Pixel-failure class	I	I	I
	Reflection class (pos./neg.)	-	-	-
	TCO Certified Displays (Sweden)	Yes(9.0)	Yes(9.0)	Yes(9.0)
9.6. Other Regulation	TCO Certified Edge Displays (Sweden)	No	No	No
	JEITA1'外漏けかたやう性 (Japan)	No	No	No
	TUV Flicker Free	Yes	Yes	Yes
	Back light control	DC control	DC control	DC control
	TUV Low Blue light	Yes	Yes	Yes
	Low Blue Light/Reduction ratio from "Native" to "L.B."	61%	61%	61%
	TUV Color Accuracy	No	No	No
9.7. Medical Regulation	U.S. Mercury regulations	No	No	No
	RoHS (EU)	No	No	No
	RoHS (US California)	Yes	No	No
	Batteries Directive 2006/66/EC (EU)	No	No	No
	WEEE(EU)	No	Yes	Yes
	India E-waste	No	No	No
	ErP Lot 5 (IT PD, TV) (EU)	No	Yes	Yes
9.8. Logo	ErP Lot 7 (External Power supply)	No	No	No
	ErP Lot 6 (EU)	No	No	No
	ErP Lot 26 (EU)	No	No	No
	CEMA-370(EU)	No	Yes	Yes
	REACH	Yes	Yes	Yes
	RoHS(EU)	Yes	Yes	Yes
	Chinese-RoHS	Yes	Yes	Yes
9.9. European Recycling	Turkish-RoHS	No	Yes	Yes
	Ukrainian RoHS	No	No	No
	UAE RoHS	No	No	No
	EAEU RoHS	No	No	No
	ケーン購入法 (Japan)	No	No	No
	エコマーク (Japan)	No	No	No
	PCワランヘルズ (Japan)	No	No	No
9.9. European Recycling	JEITA VOC/ホルマリン (Japan)	No	No	No
	JEI-C-0950 -J-Moss (Japan)	No	No	No
	PCリサイクル法 (Japan)	No	No	No
	容器包装リサイクル法/取扱いリサイクル協議会マーク (Japan)	No	No	No
	Containers and Packing Recycling Law (China)	Yes	Yes	Yes
	Containers and Packing Recycling Law (Russia)	No	No	No
	Containers and Packing Recycling Law (Korea)	No	No	No
9.9. European Recycling	Der Grüne Punkt (Germany)	No	No	No
	NECコンポ&	No	No	No
	EPREL(EU)	No	No	No
	Ambient illumination sensor	n/a	n/a	n/a
	Default setting value of illumination sensor	n/a	n/a	n/a
	Backlight brightness value in dark ambient room	n/a	n/a	n/a
	Total Harmonic Distortion	n/a	n/a	n/a
9.9. European Recycling	Energy Star (US)	Yes(8.0)	Yes(8.0)	Yes(8.0)
	Energy Star (EU)	No	No	No
	Energy Star (JP)	No	No	No
	CEC(California)	Yes	No	No
	E-Standby (Korea)	No	No	No
	EEL label (before 2020) (EU)	No	No	No
	Class	n/a	n/a	n/a
9.9. European Recycling	On mode power consumption	-	-	-
	Annual on mode power consumption	-	-	-
	Reference period	-	-	-
	New EEL label (from 2021) (EU)	No	Yes	Yes
	Class	-	D	D
	On mode energy consumption in kWh per 1000h	-	14kWh/1000h	14kWh/1000h
	New UK EEL label (from 2021) (EU)	No	Yes	Yes
9.9. European Recycling	Class	-	D	D
	On mode energy consumption in kWh per 1000h	-	14kWh/1000h	14kWh/1000h
	MEPS (Australia)	Yes(Running change)	Yes(Running change)	Yes(Running change)
	Star rating	7	7	7
	CEC(kWh per year)	50	50	50
	CEL Energy efficiency regulation (China)	Yes	Yes	Yes
	Class	3	3	3
9.9. European Recycling	能源效率	1.5	1.5	1.5
	Sleep	0.50	0.50	0.50
	Off	0.40	0.40	0.40
	产品类型	标准显示器	标准显示器	标准显示器
	CECP (China)	No	No	No
	Morocco mark	No	No	No
	UAE ECAS	No	No	No
9.9. European Recycling	IEC62087	No	No	No
	MOAH MOSH(フランス鉱物油インク規制)			
	TUV-GM(Germany)	No	No	No
	CE-MDD (EU)	No	No	No
	EN14971:2012 Risk Management Plan (EU)	No	No	No
	MDD Annex I (Essential Requirement) (EU)	No	No	No
	IEC62563-1 (EU)	No	No	No
9.9. European Recycling	FDA-510K (US)	No	No	No
	AAPM-TG18 (US)	No	No	No
	DIN 6868-157 (German) Category I or II:	No	No	No
	EN60601-1-2 section 2	No	No	No
	EN62304:2006 (医療機器ソフトウェア)	No	No	No
	EN62366:2008 (ユーザビリティ)	No	No	No
		-	-	-
9.9. European Recycling	Windows 7	No	No	No
	Windows 8	No	No	No
	Windows 10 Driver	No	No	No
	Windows 11 Driver	No	No	No
	HDMI	Yes	Yes	Yes
	DisplayPort	Yes	Yes	Yes
	USB-IF	No	No	No
9.9. European Recycling	DisplayPort Alternate Mode	Yes	Yes	Yes
	G2 Category	Paper	Paper	Paper
	Carton Box TOP (Material)	1003g	1003g	1003g
	Carton Box TOP (Weight)	-	-	-
	Carton Box MIDDLE (Material)	-	-	-
	Carton Box MIDDLE (Weight)	-	-	-
	Carton Box BTM (Material)	-	-	-
9.9. European Recycling	Carton Box BTM (Weight)	-	-	-
	Carton Others (Material)	-	-	-
	Carton Others (Weight)	-	-	-
	G2 Total Weight	1003g	1003g	1003g
	G5 Category	EPS	EPS	EPS
	Plastic inlays (Material)	377g	377g	377g
	Plastic inlays (Weight)	-	-	-
9.9. European Recycling	Plastic inlays (Material)	-	-	-
	Plastic inlays (Weight)	-	-	-
	Monitor bag (Material)	PE	PE	PE
	Monitor bag (Weight)	24g	24g	24g
	Power Cable bag (Material)	PE	PE	PE
	Power Cable bag (Weight)	4g	4g	4g
	Signal Cable bag (Material)	PE	PE	PE

[illegible]