

	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 1 of 15

Model Name: OLMU-K5552
OLME-K5552
OLME-K5572

ISSU. DEPT	PREPARED BY	REVIEWED BY	APPROVED BY
R&D Center	SU-SAM, CHOI		Han-Joo, Bae
			
	2023. 11. 19		2023. 11. 19

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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 2 of 15

© Revisions History

Revision No.	Revised Date	Page	Revised Description
1.0	2020. 01. 28	All	Establishment
2.1	2022. 01. 26	5	Surface Treatment
	2022. 01. 26	5	Power Consumption
2.2	2023. 11. 19	4	Video Daisy Wall Chain (15x15)

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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 3 of 15

CONTENTS

1. Application	4
2. Summary	4
3. Environmental Conditions	4
4. General Information	5
5. Specifications	7
5-1. Input/Output Specifications	7
5-2. Input / Output Terminal	7
5-3. Supported resolutions	8
5-4. Remote control	9
6. Accessory	10
6-1. Accessory	10
6-2. Optional Accessory	10
7. Product Drawing & Dimension	11
7-1. OLMU-K5552 Drawing.	11
7-2. OLME-K5552/OLME-K5572 Drawing .	12
8. Label	13
8-1. Box Label	13
8-2. Serial Label	13
8-3 Product Label	14
9. Packing	15
9-1. Set Packing	15
9-2. Pallet Packing	16

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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 4 of 15

1. Application

This specification applies to Multi-LCD Sets OLMU-K5552/OLME-K5552/OLME-K5572 with 55" Ultra Narrow Bezel LCD PANEL or Extreme Narrow Bezel LCD PANEL.

2. Summary

OLMx-K Series are infinitely expandable LCD monitor system ready for 4K UHD (3840*2160P@60Hz) video signal such as DisplayPort (DP 1.2) & HDMI (HDMI 2.0) along with DVI. Also provides various means of control such as RS-232C, LAN and IR.

- ✓ Ultra/Extreme Narrow splicing bezel
- ✓ No delay and motion trail of graphics, natural and smooth display.
- ✓ Support up to 15x15 splicing units (Video Daisy Wall Chain (15x15))
- ✓ The screen has a 24/7 non-stop operating time
- ✓ Video Wall Processor built in
- ✓ Remote Display Management
- ✓ Landscape and Portrait, all metal chassis
- ✓ HDMI In, DVI In, DP In/Out
- ✓ RS-232C In/Out, Network port (RJ-45) for PC / sever control
- ✓ PIP / PBP / QUAD Displays
- ✓ Auto power recovery, auto pixel shift, standard VESA mounting hole patterns

3. Environmental Conditions

Item	Operating Condition		Storage Condition	
	Maximum	Recommend	Maximum	Recommend
Temperature	0 ~ 50 °C	0 ~ 40 °C	-20 ~ 60 °C	-10 ~ 50 °C
Humidity	10 ~ 90 %RH	10 ~ 80 %RH	0 ~ 90 %RH	10 ~ 90 %RH

※ If the condition exceeds maximum ratings, it can cause malfunction or unrecoverable damage to the device

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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 5 of 15

4. General Information

PRODUCT NAME		55" UNB MLCD		55" ENB MLCD	
MODEL NAME		OLMU-K5552		OLME-K5552	OLME-K5572
PANEL TYPE		IPS			
LCD PANEL	Diagonal Screen Size	55 inch (1387.8mm)			
	Module Dimension (H x V mm)	1213.4 x 684.2	1211.0 x 681.7		
	Active Display Area	1209.6 x 680.4 mm			
	Number of Pixel	1920 x 1080 (16 :9)			
	Pixel pitch (mm)	0.63 x 0.63			
	Luminance of White (cd/m ²)	500	500	700	
	Contrast ratio (Typ.)	1,400 : 1 (Dynamic C/R 500,000 :1)			
	Backlight Type	DIRECT LED			
	Response Time (G to G)	Typ.: 8 ms			
	Viewing Angle	Viewing angle free (R/L 178° (Min), U/D 178° (Min))			
	Display Colors	1.07 Billion (10bit)			
	Color Gamut	72 %			
	Surface Treatment	Hard coating (3H), Anti-Glare (Haze 28%)			
	Life time (Hrs, Typ.)	60,000			
	TERMINAL	Video	INPUT: 1 x DP1.2, 2 x HDMI2.0, 1 x DVI-D; OUTPUT: 1 x DP1.2		
Audio		INPUT: Stereo mini-Jack; OUTPUT: Stereo mini-Jack			
Control		INPUT: RS-232, LAN, IR, USB (For A/S); OUTPUT: RS-232			
DAISY CHAIN	Loop out Port	DP (Display Port)			
	Source	DP, HDMI, DVI			
INPUT SIGNAL	Support Resolution	480p, 576p, 720p, 1080p, UHD (only HDMI, DP)			
	Frequency	30 ~ 140 KHz (HOR), 29 ~ 76 Hz (VER)			
	Pixel frequency max.	77 MHz			
	HDCP	HDCP 2.2			
FEATURES	Advanced Color Management	Yes			
	Auto Pixel Shift	Yes			
	Auto Source Switching	Yes			
	Auto Source Recovery	Yes			
	Button Lock	Yes			
	Clock Battery	168hrs Clock Keeping			
	Color Temperature Adjust	Yes			
	DP 1.2 Digital Daisy Chain	Yes			
	Plug and Play (DDC2B)	Yes			
	OSW software	RS232/ RJ45			
	Rotate/ Pivot Display	Yes			
	Splicing Video Wall up to 15x15	Yes			
	Smart F/W update	Yes			
	Temperature Sensor	Yes			
POWER SUPPLY (Built-in)		AC100V ~ 240V±10% (50/60Hz)			
POWER CONSUMPTION	Stand-by/ Off mode (Watt)	≤ 0.5			
	Typical (Watt)	90	90	115	
	Maximum (Watt)	242	242	250	
	BTU max.	825			
SEAM GAP (Typ. mm)		3.5 (Bezel to Bezel)	1.8 (Bezel to Bezel)/ 0.9 (Even)		

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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 6 of 15

DIMENSION (W x H x D mm)	1213.4 x 684.2 x 75.2	1211.0 x 681.7 x 70
MOUNTING (H x V. mm)	600 x 400	
WEIGHT (kg)	20.5±0.5	19.4±0.5
INSTALLATION ORIENTATION	Portrait / Landscape	
OPERATION HOUR	24 / 7	

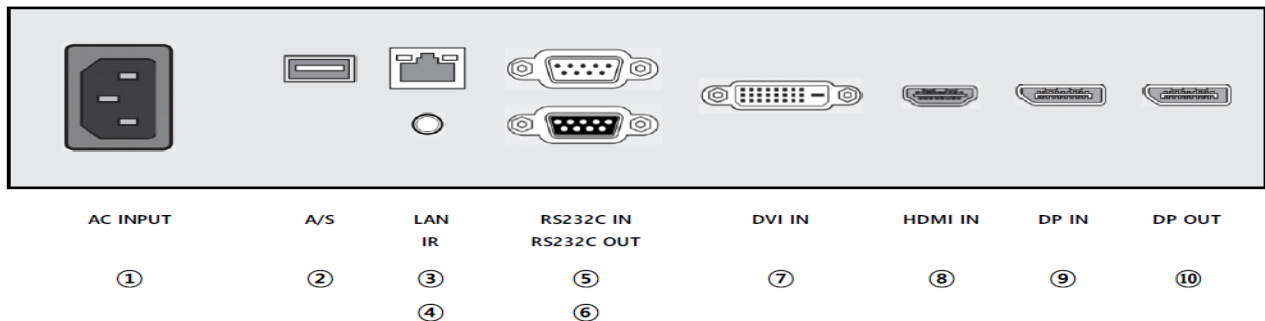
* Product design and specification can be changed for quality improvement without prior notice

5. Specifications

5-1. Input/Output Specifications

Terminal Name	Terminal Spec.	Q'Ty	Signal Spec.	Remark
DP IN	STANDARD DisplayPort	1	DP1.2 (HDCP2.2)	
DP OUT	STANDARD DisplayPort	1	DP1.2 (HDCP2.2)	
HDMI IN	HDMI Type A Female	2	HDMI2.0 (HDCP2.2)	
DVI IN	DVI-D 24 Pin Female	1	DVI-D	Dual-link
RS-232C IN	D-Sub 9 Pin Female	1	±15V	
RS-232C OUT	D-Sub 9 Pin Male	1	±15V	
LAN	RJ45	1	10/100 BASE-T	
IR	Stereo Mini Jack 3.5Φ	1	-	
USB	USB Type-A	1	-	For A/S

5-2. Input / Output Terminal



- 1) AC IN: Connects with the supplied power cord.
- 2) A/S: Only for Firmware upgrade.
- 3) LAN: For control by Ethernet
- 4) IR: Connecting with IR receiver for remote control.
- 5) RS232C IN: Connecting with RS232C cable from external equipment such as a PC in order to control RS232C functions.
- 6) RS232C OUT: Connecting RS232C looping through with other monitors for whole video wall control.
- 7) DVI IN: To input Digital RGB signal from a computer or HDTV device having a digital RGB output.
- 8) HDMI IN: To input HDMI video signal.
- 9) DP IN: To input Display Port video signal.
- 10) DP OUT: For loop through video with other monitors for sharing video signal through Display Port.

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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 7 of 15

5-3. Supported resolutions

Vertical Frequency : Standards ± 0.5 Hz, Vertical Lines : Standards ± 7 Lines * H [dot] / V [line]

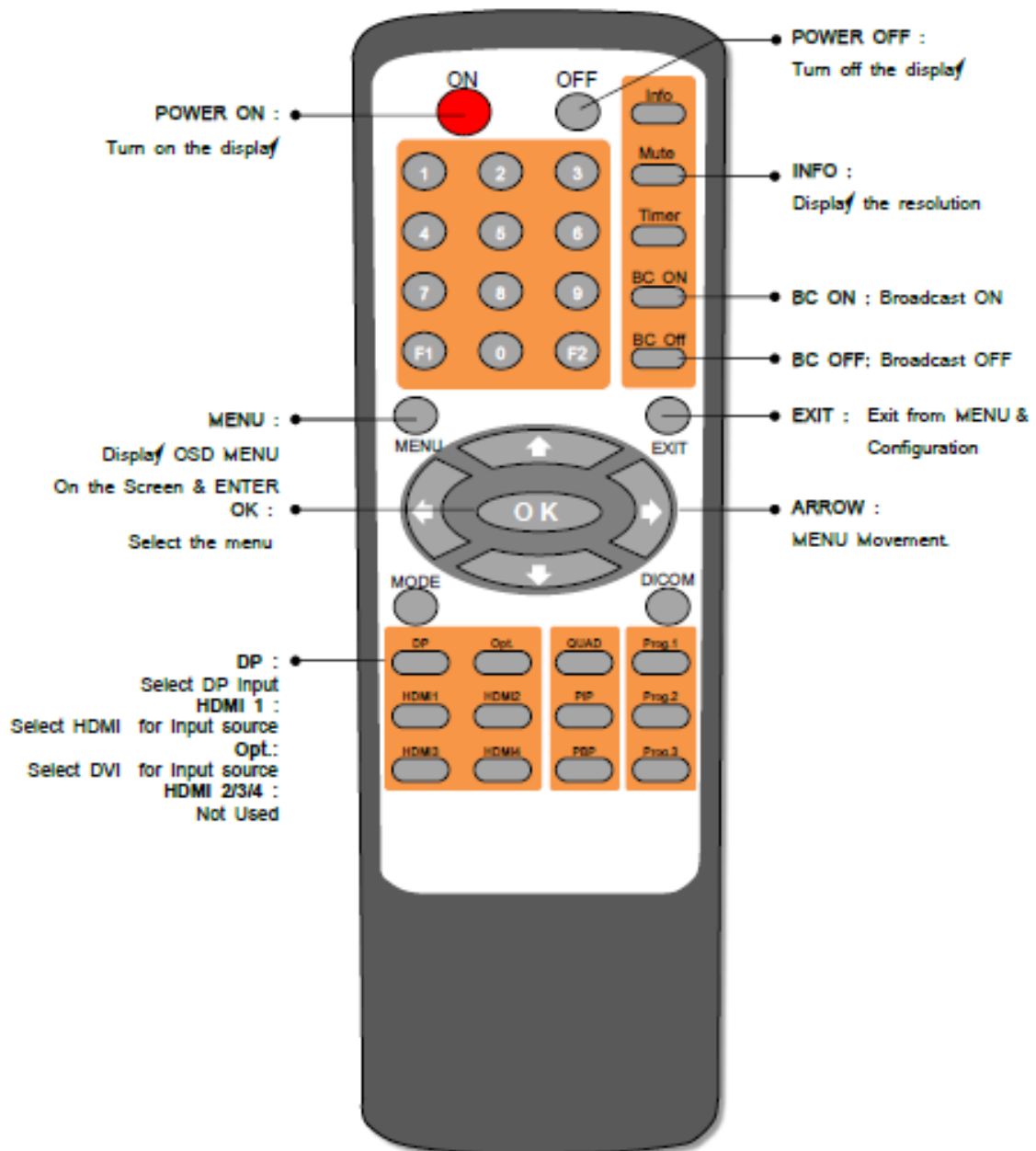
Resolution	Pixel Clock [Mhz]	Horizontal [Pixels]				Vertical [Lines]				Pol. (H/V)	Standard Type	Input
		Total	Addr. Width	Sync. Width	Back Porch	Total	Addr. Width	Sync. Width	Back Porch			
640*480*60	25.175	800	640	96	40	525	480	2	25	- / -	DMT	DP, HDMI, DVI
800*600*60	40.000	1054	800	128	88	628	600	4	23	+ / +	DMT	
1024*576*60	46.500	1296	1024	96	136	599	576	5	15	+ / +	VESA	
1024*768*60	65.000	1344	1024	136	160	806	768	6	29	- / -	DMT	
1280*768*60	79.500	1664	1280	128	192	798	768	7	20	- / +	CVT	
1280*960*60	108.000	1800	1280	112	312	1000	960	3	36	+ / +	CVT	
1280*1024*60	108.000	1688	1280	112	248	1066	1024	3	38	+ / +	DMT	
1360*768*60	85.500	1792	1360	112	256	795	768	6	18	+ / +	DMT	
1400*1050*60	121.750	1864	1400	144	232	1089	1050	4	32	- / +	CVT	
1600*900*60	118.250	2112	1600	168	256	934	900	5	26	- / +	CVT	
1600*1200*60	162.000	2160	1600	192	304	1250	1200	3	46	+ / +	DMT	
1920*1080*60	148.500	2200	1920	88	148	1125	1080	5	36	- / -	DTV	
480p	27.000	858	720	62	62	525	480	6	30	+/+	DTV	
576p	27.000	864	720	64	68	625	576	5	39	+/+	DTV	
720p50	74.250	1980	1280	80	220	750	720	5	20	+/+	DTV	
720p60	4.250	1650	1280	80	220	750	720	5	20	+/+	DTV	
1080i50	74.250	2640	1920	88	148	1125	1080	5	20	+/+	DTV	
1080i60	74.250	2200	1920	88	148	1125	1080	10	30	+/+	DTV	
1080p50	148.500	2640	1920	88	148	1125	1080	5	36	-/-	DTV	
1080p60	148.500	2200	1920	88	148	1125	1080	5	36	-/-	DTV	
3840*2160*30	297.000	4400	3840	88	296	2250	2160	10	72	+ / +		DP/ HDMI
3840*2160*60	594.000	4400	3840	88	296	2250	2160	10	72	+ / +		

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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 8 of 15

5-4. Remote Control



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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 9 of 15

6. Accessory

6-1. Accessory

- 1) CD with User's Manual: 1ea
- 2) Power Cabl : 1 ea
- 3) DVI Cable: 1 ea
- 4) RS-232C Cable: 1 ea
- 5) Guide Pin: 4 ea
- 6) IR Receiver: 1 ea
- 7) Remote Controller: 1 ea
- 8) Battery: 2 ea



Manual CD
(Included OSW)



Guide Pin(4pcs)



Power Cabl
e



DP Cable



RS-232C Cable



IR Receiver



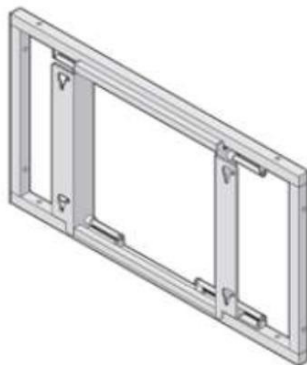
Remote Controller



Battery

6-2. Optional Accessory

- 1) Main Frame

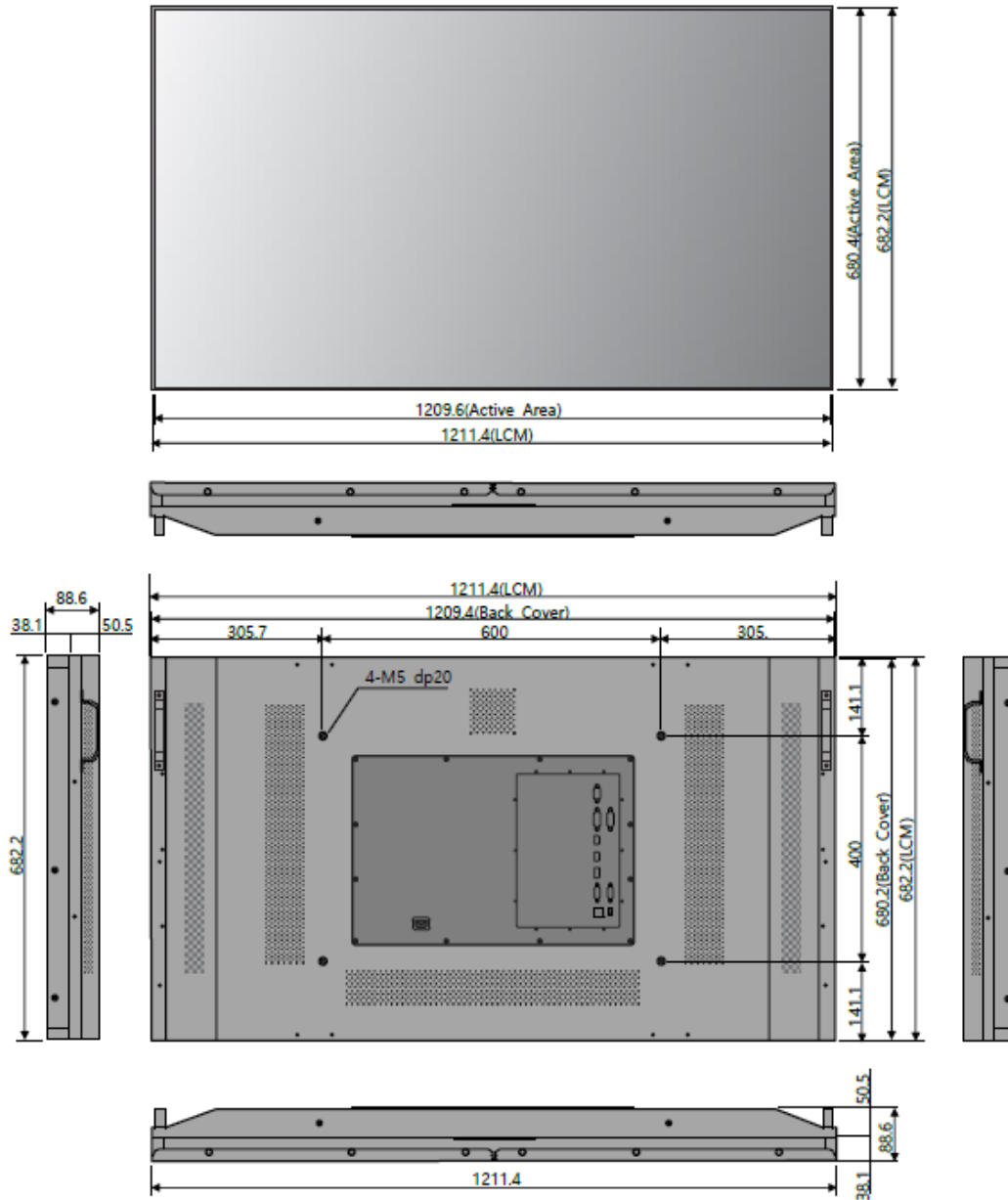


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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 11 of 15

7-2. OLME-K5552/OLME-K5572 Drawing.



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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 12 of 15

8. Label

8-1. Box Label

(80mm x 25mm, Barcode Type : Code-128)

OLMU-K5552	
	
OLME-K5552	OLME-K5572
	

8-2. Serial Label

(45mm x 9mm, Barcode Type : Code-128)

► Serial Number

Model Name	S/N	Model Name	S/N
OLMU-K5552	LМУK52A1G0H00001	-	-
OLME-K5552	LMEK52A1G0H00001	OLME-K5572	LMEK57A1G0H00001
OLMR-K5552	LMRK52A1G0H00001	OLMR-K5572	LMRK57A1G0H00001

► Drawing



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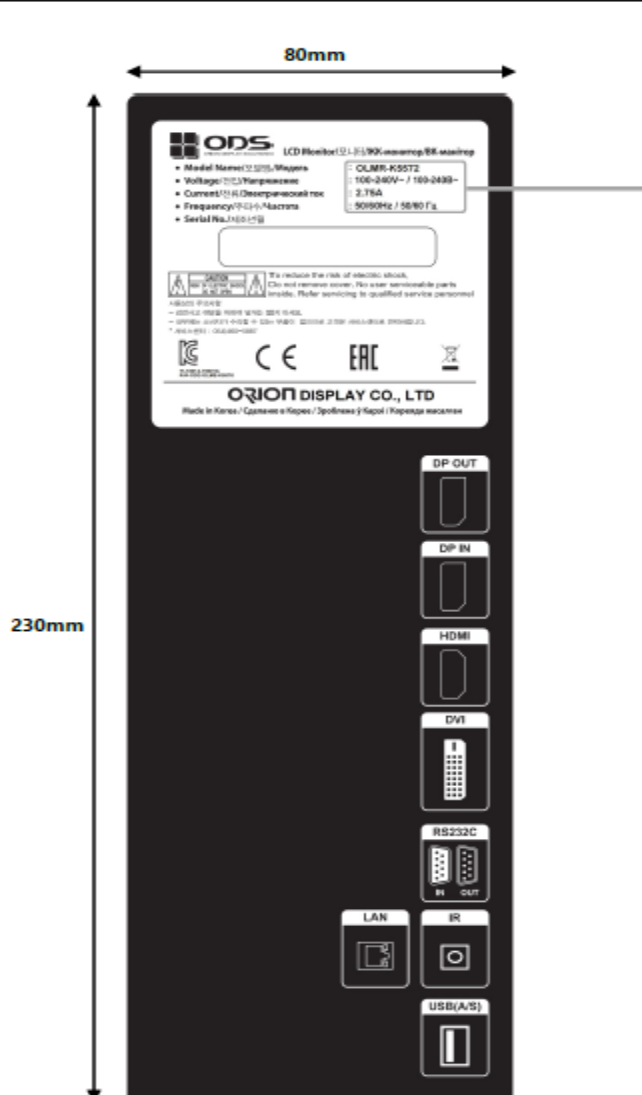
	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 13 of 15

8-3 Product Label

▶ Label Information

Model Name	OLMU-K5552	OLME-K5552	OLME-K5572	OLMR-K5552	OLME-K5572
Voltage	100-240V~/100-240B~				
Current	2.75A				
Frequency	50/60Hz / 50/60 Гц				

▶ Drawing



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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 14 of 15

9. Packing

9-1. Set Packing

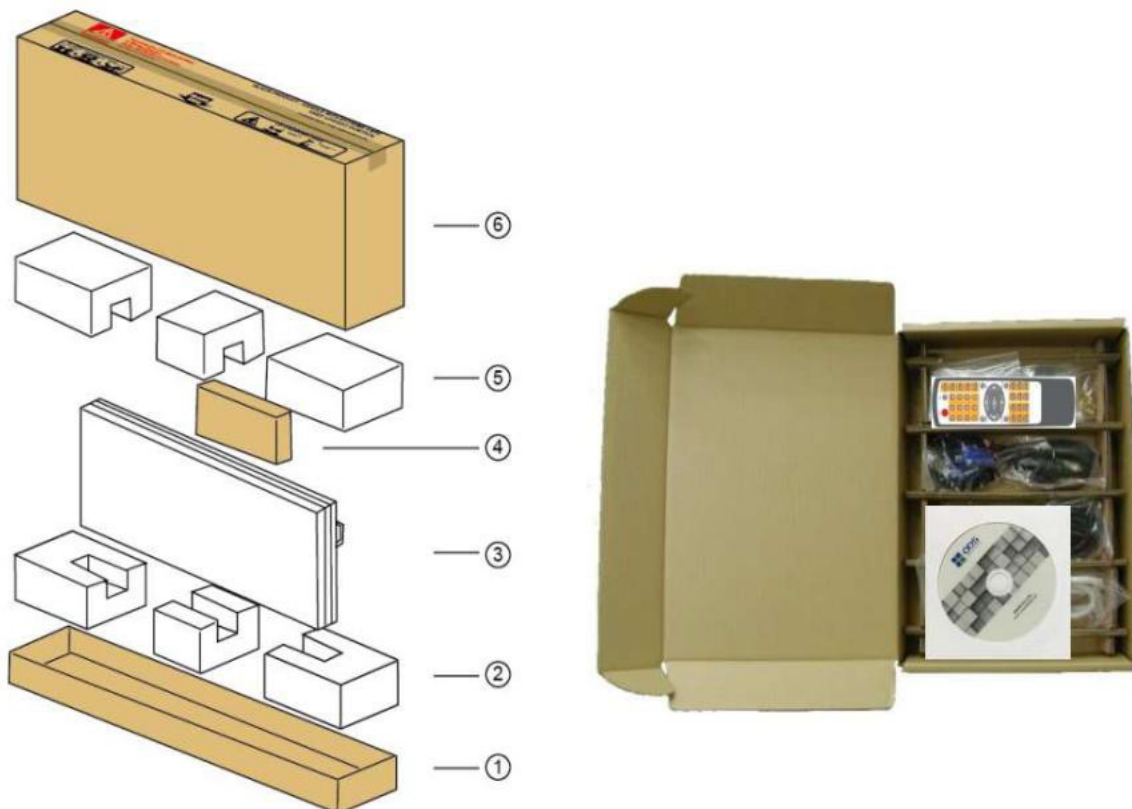
1) Box Packing Specifications

- Number of Set in 1 package : 1 Set

Model name	OLMU-K5552	OLME-K5552/OLME-K5572
Dimension (L x W x H mm)	1398 x 257 x 844	
Weight (Kg)	28.7 ± 0.5	27.6 ± 0.5

2) Box Packing Assembly Drawing

No.	Item
1	Carton Box Bottom
2	Bottom Pad Left, Bottom Pad Middle, Bottom Pad Right
3	MLCD Set
4	Accessory Box
5	Top Pad Left, Top Pad Middle, Top Pad Right
6	Carton Box Top



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	SPEC. No.	OMS-GW790285/ OMS-GW790280/ OMS-GW790282	Revised Date	2023.11.19
	SPEC.Name	Product Specification	Revised. No.	2.2
			PAGES	Page 15 of 15

9-2. Panel Packing

1) Pallet Packing Specifications

ITEM	FCL		LCL or Air	
	OLMU- K 5552	OLME - K 5552 OLME- K 5572	OLMU- K 5552	OLME - K 5552 OLME- K 5572
Number of Set in 1 package	4 boxes(4 monitor)			
Dimension (L x W x H mm)	1460 x 1130 x 950		1460 x 1130 x 1000	
Weight(Kg)	122.7 ± 1		121.6 ± 2	

2) Pallet Packing Assembly Drawing

- FCL Packing



- The loading direction of MLCD on the pallet



Glass Side Mark

- LCL or Air Packing



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