IM/OM Series
Industrial/Open-Frame Monitor
User's Manual



Manual Rev.: 1.6
Revision Date: October 16, 2026
Part Number: 50M-P6000-1060

LEADING EDGE AI COMPUTING

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Revision History

Revision	Description	Date
1.0	Initial release	2022-09-29
1.1	Add information for larger models	2023-03-28
1.2	Add Fullscreen and High-Brightness models	2023-11-24
1.3	Update specs	2024-03-14
1.4	Added weight and dimensions for additional models	2024-10-22
1.5	Specifications and on-screen display (OSD) Updated	2025-06-03
1.6	On-screen display (OSD) Updated	2026-10-16

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Preface

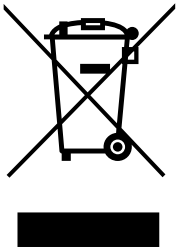
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Conventions

Take note of the following conventions used throughout this manual to make sure that users perform certain tasks and instructions properly.



Additional information, aids, and tips that help users perform tasks.



Information to prevent minor physical injury, component damage, data loss, and/or program corruption when trying to complete a task.



Information to prevent serious physical injury, component damage, data loss, and/or program corruption when trying to complete a specific task.

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Table of Contents

Revision History i
Preface ii
List of Figures iv
List of Tables iv
1. Introduction 1
1.1. Features 1
1.2. Applications 1
1.3. Package Contents 2
1.4. Optional Accessories 2
2. Specifications 3
2.1. IM Series 3
2.2. OM Series (Fullscreen Models) 6
2.3. OM Series (Widescreen Models) 7
3. Mechanical Layout 11
3.1. I/O Connectors 11
3.2. Mechanical Dimensions 15
3.3. Mounting 25
4. On-Screen Display (OSD) 35
4.1. OSD Buttons 35
4.2. OSD Menus 37
5. Troubleshooting 51
Safety Instructions 52
Getting Service 53

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List of Figures

Figure 1: IM-215-270/OM-070-270 I/O Connectors 11
Figure 2: OM-320-430 I/O Connectors 11
Figure 3: IM-150 Mechanical Dimensions 15
Figure 4: IM-170 Mechanical Dimensions 15
Figure 5: IM-190 Mechanical Dimensions 16
Figure 6: IM-215 Mechanical Dimensions 16
Figure 7: IM-238 Mechanical Dimensions 17
Figure 8: IM-270 Mechanical Dimensions 17
Figure 9: OM-070 Mechanical Dimensions 18
Figure 10: OM-121 Mechanical Dimensions 18
Figure 11: OM-150 Mechanical Dimensions 19
Figure 12: OM-170 Mechanical Dimensions 19
Figure 13: OM-190 Mechanical Dimensions 20
Figure 14: OM-101 Mechanical Dimensions 20
Figure 15: OM-156 Mechanical Dimensions 21
Figure 16: OM-185 Mechanical Dimensions 21
Figure 17: OM-215 Mechanical Dimensions 22
Figure 18: OM-238 Mechanical Dimensions 22
Figure 19: OM-270 Mechanical Dimensions 23
Figure 20: OM-320 Mechanical Dimensions 23
Figure 21: OM-430 Mechanical Dimensions 24
Figure 22: Attaching a VESA Mounting Bracket for IM-215-270/OM-101-270 25
Figure 23: VESA Mounting for OM-320 26
Figure 24: VESA Mounting for OM-430 26
Figure 25: OM-070 Cut Out Dimensions 27
Figure 26: OM-121 Cut Out Dimensions 28
Figure 27: OM-150 Cut Out Dimensions 28
Figure 28: OM-170 Cut Out Dimensions 28
Figure 29: OM-190 Cut Out Dimensions 29
Figure 30: OM-101 Cut Out Dimensions 29
Figure 31: OM-156 Cut Out Dimensions 29
Figure 32: OM-185 Cut Out Dimensions 30
Figure 33: OM-215/OM-215H Cut Out Dimensions 30
Figure 34: OM-238 Cut Out Dimensions 30

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Figure 35: OM-270 Cut Out Dimensions 31
Figure 36: Insert Monitor into Cut Out 31
Figure 37: Secure Monitor with Mounting Clips 32
Figure 38: Panel Mount for OM-320 32
Figure 39: Panel Mount for OM-430 33
Figure 40: IM/OM Rear Panel OSD Buttons 35
Figure 41: OM-320-430 Rear Panel OSD Buttons.....36

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List of Tables

Table 1: IM-150-190 Specifications 3
Table 2: IM-215-270 Specifications 4
Table 3: IM Series Specifications (Value-Added Models) 5
Table 4: OM-070-190 Series Specifications 6
Table 5: OM-101-270 Series Specifications 7
Table 6: OM-215H (High-Brightness) Series Specifications 8
Table 7: OM-320-430 Series Specifications 9
Table 8: OM-320SHV Specifications 10
Table 9 IM-215-270/IM-215H/OM-070-270/OM-215H OSD Button Functions 35
Table 10: OM-320-430 OSD Button Functions 36
Table 11: OSD Menu Overview for OM-070/121/150/170/190/215H 37
Table 12: OSD Menu Overview for OM-101/156/185/215/238/270 and IM-215/238/270 42
Table 13: OM-320SHV OSD Features 43
Table 14: OM-430SV OSD Features 44
Table 15: OSD Menu Overview for OM-320-430 50

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1. Introduction

The IM/OM series is ADLINK's new industrial true-flat and open-frame touch monitor designed for quick and easy integration with a variety of applications, such as public signage, self-service kiosks, medical displays, and point-of-sale terminals.

1.1. Features

IM Series

- 15"/17"/19" 4:3 LCD panel with LED backlight with up to 40,000 service life hours
- 21.5"/23.8"/27.0" 16:9 LCD panel with LED backlight with up to 40,000 service life hours
- 10-point PCAP touchscreen
- Anti-fingerprint surface treatment for ease of cleaning and enhanced readability
- Wide viewing angle support for both portrait and landscape modes
- IP rating for water and dust protection
- Up to -20°C to 70°C operating temperature range
- All new true-flat design with edge-to-edge front glass
- VESA Mount Holes: MIS-D 75mm x 75mm, 100mm x 100mm (Standard)

OM Series

- 7"/12.1"/15"/17"/19" 5:3/4:3/5:4 LCD panel with LED backlight and up to 50,000 service life hours
- 10.1"/15.6"/21.5"/23.8"/27"/32"/43" 16:10/16:9 LCD panel with LED backlight and up to 50,000 service life hours
- 10-point PCAP touchscreen
- Anti-fingerprint surface treatment for ease of cleaning and enhanced readability
- Wide viewing angle support for both portrait and landscape modes
- IP rating for water and dust protection
- Up to -20°C to 70°C operating temperature (see Table 4: OM-070-190 Series Specifications and Table 5: OM-101-270 Series Specifications)
- VESA Mount Holes: MIS-D 75mm x 75mm, 100mm x 100mm (Standard, IM-215-121/OM-101-270). 200mm x 200mm (OM-320-430)
- Easy deployment with support for wall, panel, and VESA mounting

1.2. Applications

- KIOSK / POI / Ticketing / ATM
- Transportation
- Public communication
- Entertainment / Gaming / Slot machine
- Human-Machine Interface equipment controller monitor

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1.3. Package Contents

Please check that your package contains the items below. If you discover damaged or missing items, please contact your vendor.

IM-150/170/190/215/215H/238/270 and OM-101/121/150/156/185/170/190/215/215D/215H/215D/238/270:

- 1x DC power cable clamp
- 1x Screw M3 (for use with DC power cable clamp)

OM-320-430:

- 1x Power Cable
- 1x 24V 120W Power Adapter
- 1x USB cable
- 1x HDMI® cable
- 1x Line Buckle w/M4 screw

1.4. Optional Accessories

- 12V 60W power adapter
- Panel mounting kit (OM Series only)

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2. Specifications

2.1. IM Series

Table 1: IM-150-190 Specifications

Model	IM-150	IM-170	IM-190
Display			
Size	15”	17”	19”
Resolution	1024x768 (XGA)	1280 x 1024	
Aspect Ratio	4:3	5:4	
Color	16.7M		
Brightness (Nits w/touch)	400	300	300
Backlight Life (Hours)	50,000		
View Angle (U/D/R/L)	70/80/80/80	80/80/85/85	
Contrast Ratio	800:1	1000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating	10-point, PCAP, Anti-glare coating	
Bonding	Air bonding		
I/O			
USB Port	USB 2.0 Type-B (for touch)		
Video	HDMI x1, VGA x 1		
Audio	w/o Audio		
Environmental			
Operating Temperature	0°C to 60°C	0°C to 50°C	-20°C to 70°C
Storage Temperature	-10°C to 60°C	-20°C to 60°C	-20°C to 70°C
Humidity	10% to 80% @ 40°C (non-condensing)		
Surface Hardness	7H		
Vibration	Operating: 1G random 5 to 500Hz		
Shock	Operating: 20G acceleration part to part, 11ms		
IP Rating	Front IP65		
Certifications & Compliance	CE/FCC		
Power Input	12V DC, 5A Max.		
Power Consumption	8.1W	10.6W	11.6W
Power Adapter (Optional)	This unit is intended to be supplied by listed equipment whose output meets ES1 and is rated at 12 V DC, 5A minimum, TMA rated 60°C minimum, altitude 5000m minimum and evaluated in accordance with UL/EN/IEC 60950-1 and/or UL/EN/IEC 62368-1, and CNS 14336-1 or CNS 15998-1.		
Mechanical			
Net Weight / Gross Weight	3.3kg / 4.2kg	4.3kg / 5.4kg	5.1kg /6.2kg
Packing Dimensions (H x W x D)	405 x 180 x 462	495 x 180 x 550	495 x 180 x 550
Mounting	VESA Mount: MIS-D 75mm x 75mm, 100mm x 100mm (Standard)		

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Table 2: IM-215-270 Specifications

Model	IM-215	IM-238	IM-270
Display			
Size	21.5”	23.8”	27”
Resolution	1920x1080		
Aspect Ratio	16:9		
Color	16.7M		
Brightness (Nits w/touch)	400 (215) 1200 (215H)	200	240
Backlight Life (Hours)	30,000		40,000
View Angle (U/D/R/L)	89/89/89/89	85/85/85/85	
Contrast Ratio	1000:1	3000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating		
Bonding	Air bonding		
I/O			
USB Port	USB 2.0 Type-B (for touch)		
Video	HDMI x1, VGA x 1		
Audio	w/o Audio		
Environmental			
Operating Temperature	0°C to 60°C	0°C to 50°C	
Storage Temperature	-20°C to 60°C		
Humidity	10% to 80% @ 40°C (non-condensing)		
Surface Hardness	7H		
Vibration	Operating: 1G random 5 to 500Hz		
Shock	Operating: 20G acceleration part to part, 11ms		
IP Rating	Front IP65		
Certifications & Compliance	CE/FCC/BSMI	CE/FCC	
Power Input	12V DC, 5A Max.		
Power Consumption	25.7W	16.3W	23.8W
Power Adapter (Optional)	This unit is intended to be supplied by listed equipment whose output meets ES1 and is rated at 12 V DC, 5A minimum, TMA rated 60°C minimum, altitude 5000m minimum and evaluated in accordance with UL/EN/IEC 60950-1 and/or UL/EN/IEC 62368-1, and CNS 14336-1 or CNS 15998-1.		
Mechanical			
Net Weight / Gross Weight	5.0kg / 6.2kg	6.85kg / 7.45kg	8.26kg / 8.86kg
Packing Dimensions (H x W x D)	640 x 176 x 440 mm	700 x 170 x 493 mm	775 x 538 x 180 mm
Mounting	VESA Mount: MIS-D 75mm x 75mm, 100mm x 100mm (Standard)		

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Table 3: IM Series Specifications (Value-Added Models)

Model	IM-215H	IM-215D (DICOM-Standard)
Display		
Size	21.5”	
Resolution	1920x1080	
Aspect Ratio	16:9	
Color	16.7M	
Brightness (Nits w/touch)	1200	400
Backlight Life (Hours)	30,000	50,000
View Angle (U/D/R/L)	89/89/89/89	
Contrast Ratio	3000:1	1000:1
Touchscreen	10-point, PCAP, Anti-fingerprint coating	
Bonding	Air bonding	
I/O		
USB Port	USB 2.0 Type-B (for touch)	
Video	HDMI x1, VGA x 1	
Audio	w/o Audio	
Environmental		
Operating Temperature	-20°C to 60°C	0°C to 50°C
Storage Temperature	-20°C to 60 °C	-10°C to 50°C
Humidity	10% to 80% @ 40°C (non-condensing)	
Surface Hardness	7H	3H
Vibration	Operating: 1G random 5 to 500Hz	
Shock	Operating: 20G acceleration part to part, 11ms	
IP Rating	Front IP65	
Certifications & Compliance	CE/FCC	
Power Input	12V DC, 5A Max.	
Power Consumption	41.2W	25.4W
Power Adapter (Optional)	This unit is intended to be supplied by listed equipment whose output meets ES1 and is rated at 12 V DC, 5A minimum, TMA rated 60°C minimum, altitude 5000m minimum and evaluated in accordance with UL/EN/IEC 60950-1 and/or UL/EN/IEC 62368-1, and CNS 14336-1 or CNS 15998-1.	
Mechanical		
Net Weight / Gross Weight	5.4 kg /5.9 kg	
Packing Dimensions (H x W x D)	620 x 176 x 440 mm	
Mounting	VESA Mount: MIS-D 75mm x 75mm, 100mm x 100mm (Standard)	

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2.2. OM Series (Fullscreen Models)

Table 4: OM-070-190 Series Specifications

Model	OM-070	OM-121	OM-150	OM-170	OM-190
Display					
Size	7.0”	12.1”	15.0”	17.0”	19.0”
Resolution	800x480	1024x768 (XGA)		1280x1024	
Aspect Ratio	5:3	4:3	4:3	5:4	4:3
Color	16.7M				
Brightness	400 nits			300 nits	
Backlight Life (Hours)	50,000				
View Angle (U/D/R/L)	89/89/89/89	70/70/80/80	70/80/80/80	80/80/85/85	
Contrast Ratio	1300:1	700:1	800:1	1000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating				
Bonding	Air bonding				
I/O					
USB Port	USB Type-B (for touch)				
Video	HDMI x1, VGA x 1				
Audio	w/o Audio				
Environmental					
Operating Temperature	-20°C to 70°C		0°C to 60°C	0°C to 50°C	-20°C to 70°C
Storage Temperature	-20°C to 70°C		-10°C to 60°C	-20°C to 60°C	-20°C to 70°C
Humidity	10% to 80% @ 40°C (non-condensing)				
Surface Hardness	7H				
Vibration	Operating: 1G random 5 to 500Hz				
Shock	Operating: 20G acceleration part to part, 11ms				
IP Rating	Front IP65				
Certifications & Compliance	CE/FCC				
Power Input	12V DC, 5A Max.				
Power Consumption	3.7W	7.4W	8.1W	16W	16W
Mechanical					
Net Weight / Gross Weight	0.9kg / 1.4kg	2.02kg / 2.52kg	2.8kg / 3.3kg	3.5kg / 4.0kg	4.2kg / 4.7kg
Packing Dimensions (H x W x D) (mm)	375 X 180 X 243	415 X 180 X 383	465 X 180 X 418	555 X 180 X 508	
Mounting (mm)	Panel Mount	VESA Mount (MIS-D 75mm x 75mm,100mm x 100mm) Panel, and Wall mount			

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2.3. OM Series (Widescreen Models)

Table 5: OM-101-270 Series Specifications

Model	OM-101	OM-156	OM-185	OM-215	OM-238	OM-270
Display						
Size	10.1”	15.6”	18.5”	21.5”	23.8”	27.0”
Resolution	1280x800	1920x1080				
Aspect Ratio	16:10	16:9				
Color	16.7M					
Brightness	400 nits		300 nits	400 nits	200 nits	240 nits
Backlight Life (Hours)	50,000			30,000		40,000
View Angle (U/D/R/L)	89/89/89/89			89/89/89/89		
Contrast Ratio	1000:1		1000:1		3000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating					
Bonding	Air bonding					
I/O						
USB Port	USB Type-B (for touch)					
Video	HDMI x1, VGA x 1					
Audio	w/o Audio					
Environmental						
Operating Temperature	-20°C to 70°C		0°C to 70°C	-20°C to 60°C	0°C to 50°C	0°C to 50°C
Storage Temperature	-20°C to 70°C			-20°C to 60°C		
Humidity	10% to 80% @ 40°C (non-condensing)					
Surface Hardness	7H					
Vibration	Operating: 1G random 5 to 500Hz					
Shock	Operating: 20G acceleration part to part, 11ms					
IP Rating	Front IP65					
Certifications & Compliance	CE/FCC					
Power Input	12V DC, 5A Max.					
Power Consumption	5.7W	13.9W	20W	25.4W	17.5W	23.8W
Mechanical						
Net Weight / Gross Weight	1.6kg / 2.1kg	2.9kg / 3.6kg	4.2kg / 5.2kg	4.8kg / 6.0kg	6.2kg / 7.5kg	7.5kg / 8.9kg
Packing Dimensions (H x W x D) (mm)	344 X 410 X 168	430 X 610 X 165	430 X 610 X 165	430 X 610 X 165	490 X 695 X 170	540 X 780 X 177
Mounting (mm)	VESA Mount (MIS-D 75mm x 75mm,100mm x 100mm) Panel, and Wall mount					

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Table 6: OM-215H (High-Brightness) Series Specifications

Model	OM-215H
Display	
Size	21.5”
Resolution	1920x1080
Aspect Ratio	16:9
Color	16.7M
Brightness (w/touch)	1200 nits
Backlight Life (Hours)	50,000
View Angle (U/D/R/L)	89/89/89/89
Contrast Ratio	3000:1
Touchscreen	10-point, PCAP, Anti-fingerprint coating
Bonding	Air bonding
I/O	
USB Port	USB Type-B (for touch)
Video	HDMI x1, VGA x 1
Audio	w/o Audio
Environmental	
Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 60°C
Humidity	10% to 80% @ 40°C (non-condensing)
Surface Hardness	7H
Vibration	Operating: 1G random 5 to 500Hz
Shock	Operating: 20G acceleration part to part, 11ms
IP Rating	Front IP65
Certifications & Compliance	CE/FCC
Power Input	12V DC, 5A Max.
Power Consumption	41.2W
Mechanical	
Net Weight / Gross Weight	5.1kg / 5.6kg
Packing Dimensions (H x W x D) (mm)	620 X 176 X 440
Mounting (mm)	VESA Mount (MIS-D 75mm x 75mm,100mm x 100mm) Panel, and Wall mount

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Table 7: OM-320-430 Series Specifications

Model	OM-320	OM-430
Display		
Size	32"	43"
Resolution	1920 x 1080	
Aspect Ratio	16:9	
Color	16.7M	
Brightness (w/ touch)	400 nits	
Backlight Life (Hrs)	50,000	
Viewing Angle (U/D/R/L)	89/89/89/89	
Contrast Ratio	4000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating	
Bonding	Air bonding	
I/O		
USB Port	USB type B (for touch)	
Video	HDMI x1, VGA x1, DVI x1, DP 1.2 x1	
Audio	w/o Audio	
Environmental		
Operating Temperature	0°C to 40°C	
Storage Temperature	-20°C to 60°C	
Humidity	10% to 90% (non-condensing)	
Surface Hardness	≥6H	
Vibration	Operating: 1.5G random 10 to 200Hz	
Shock	NA	
Certifications & Compliance	CE/FCC	
IP Rating	Front IP65	
Power Input	DC-24V 5A Max.	
Power Consumption	38.4W	50.4W
Mechanical		
Net Weight/ Gross Weight	14.3kg / 15.1 kg	26kg / 26.9 kg
Packing Dimensions (H x W x D)	951 x 185 x 659 mm	1200 x 214 x 821 mm
Mounting	VESA Mount 200 x 200 mm (M6), M4 Rear mount x 12	VESA Mount 200 x 200 mm (M6), M4 Rear mount x 8

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Table 8: OM-320SHV Specifications

Model	OM-320SHV
Display	
Size	32"
Resolution	1920 x 1080
Aspect Ratio	16:9
Color	16.7M
Brightness (w/ touch)	800 nits
Backlight Life (Hrs)	50,000
Viewing Angle (U/D/R/L)	89/89/89/89
Contrast Ratio	1200:1
Touchscreen	10-point, PCAP, Anti-fingerprint coating
Bonding	Air bonding
I/O	
USB Port	USB type B (for touch)
Video	HDMI x1, VGA x1, DVI x1, DP 1.2 x1
Audio	w/o Audio
Environmental	
Operating Temperature	-10°C to 60°C
Storage Temperature	-20°C to 70°C
Humidity	10% to 80% (non-condensing)
Surface Hardness	3H
Vibration	Operating: 1G random 5 to 500Hz
Shock	Operating: 20G acceleration part to part, 11ms
IP Rating	Front IP65
ESD	Class A, Contact ±4KV, Air ±8KV
Power Input	DC-24V 5A Max.
Power Consumption	40.1W Max
Mechanical	
Net Weight/ Gross Weight	14.2kg
Packing Dimensions (H x W x D)	630 x 920 x 160 mm
Mounting	VESA Mount 200 x 200 mm (M6), M4 Rear mount x 12

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3. Mechanical Layout

3.1. I/O Connectors

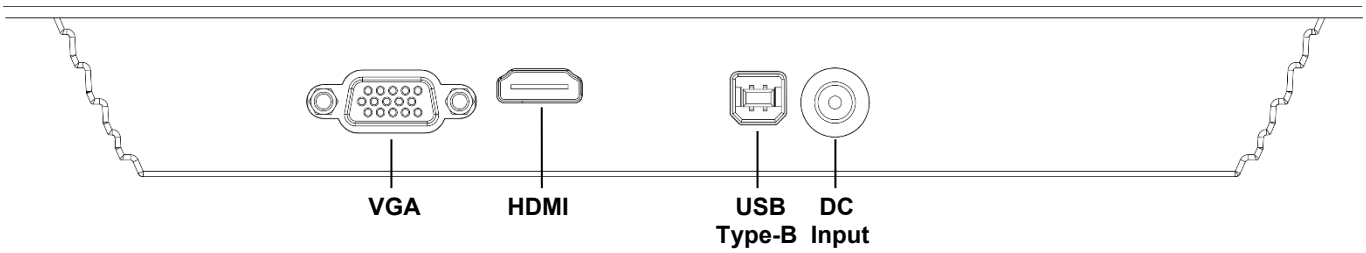


Figure 1: IM-215-270/OM-070-270 I/O Connectors

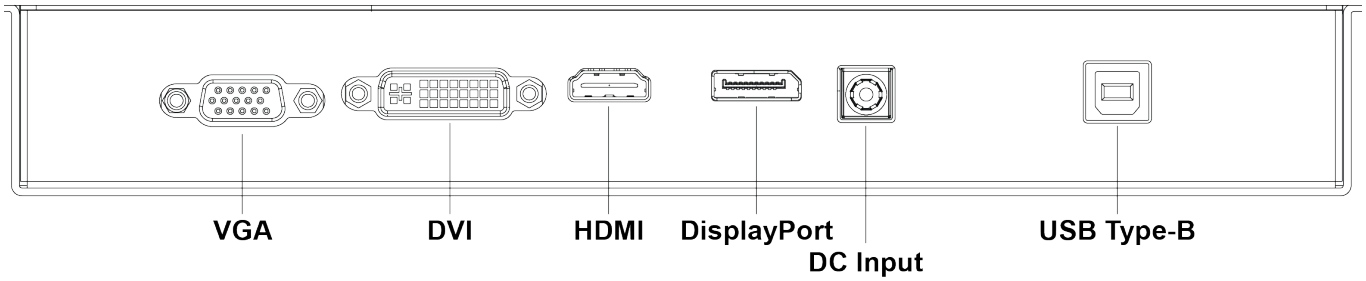
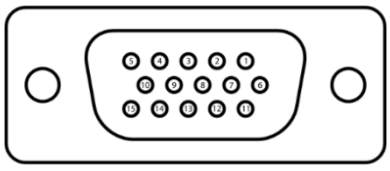


Figure 2: OM-320-430 I/O Connectors

3.1.1 VGA Connector

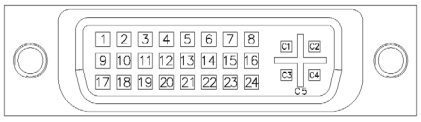
A 15-pin VGA connector is provided to connect the monitor to a computer.

Pin No.	Pin Name	Signal Type	Pin Assignment
1	RED	Analog In	
2	GREEN	Analog In	
3	BLUE	Analog In	
4	N/C		
5	GND	GND *for cable detection	
6	GND	GND	
7	GND	GND	
8	GND	GND	
9	+5V Power	Power In	
10	GND	GND	
11	N/C		
12	SDA	I/O	
13	Horizontal Sync	In	
14	Vertical Sync	In	
15	SCL	In	

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3.1.2 DVI (OM-320-430 Only)

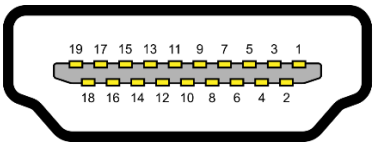
A DVI connector is provided to connect the monitor to a computer.

Pin No.	Signal	Pin No.	Signal	
1	TMDS Data2-	16	Hot Plug Detect	
2	TMDS Data2+	17	TMDS Data0-	
3	GND	18	TMDSData0+	
4	NC	19	GND	
5	NC	20	NC	
6	DDC Clock [SCL]	21	NC	
7	DDC Data [SDA]	22	GND	
8	Analog vertical sync	23	TMDS Clock +	
9	TMDS Data1-	24	TMDS Clock -	
10	TMDS Data1+	C1	Analog Red	
11	GND	C2	Analog Green	
12	NC	C3	Analog Blue	
13	NC	C4	Analog Horizontal Sync	
14	+5 V Power	C5	Analog GND Return	
15	GND			

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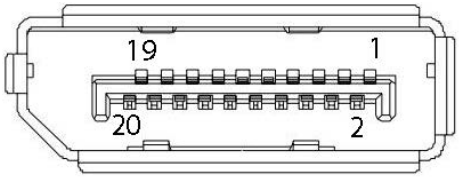
3.1.3 HDMI Connector

An HDMI Type-A socket is provided to connect the monitor to a computer.

Pin No.	Pin Name	Signal Type	Pin Assignment
1	TMDS Data2+	In	
2	TMDS Data2 Shield	GND	
3	TMDS Data2-	In	
4	TMDS Data1+	In	
5	TMDS Data1 Shield	GND	
6	TMDS Data1-	In	
7	TMDS Data0+	In	
8	TMDS Data0 Shield	GND	
9	TMDS Data0-	In	
10	TMDS Clock +	IN	
11	TMDS Clock Shield	GND * Cable detection	
12	TMDS Clock -	In	
13	CEC	Not used	
14	NC		
15	DDC Clock	In	
16	DDC Data	I/O	
17	GND	GND	
18	HDMI-HOT	+5V Power (in)	
19	HDMI-PLUG	Out (Hot Plug Detection)	

3.1.4 DisplayPort Connector

A DisplayPort Connector is provided to connect the monitor to a computer.

Pin	Signal	Pin	Signal	Pin Assignment
1	CON_DDI1_TX0_P	11	GND	
2	GND	12	CON_DDI1_TX3_N	
3	CON_DDI1_TX0_N	13	CON_DDI1_DDC_AUX_SEL	
4	CON_DDI1_TX1_P	14	CON_DDI1_CONFIG_2	
5	GND	15	CON_DDI1_I2CCLK_AUX_P	
6	CON_DDI1_TX1_N	16	GND	
7	CON_DDI1_TX2_P	17	CON_DDI1_I2CCLK_AUX_N	
8	GND	18	CON_DDI1_HPD	
9	CON_DDI1_TX2_N	19	GND	
10	CON_DDI1_TX3_P	20	P_+3V3_DP1	

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3.1.5 USB Connector

A USB 2.0 Type-B connector is provided for touch support.

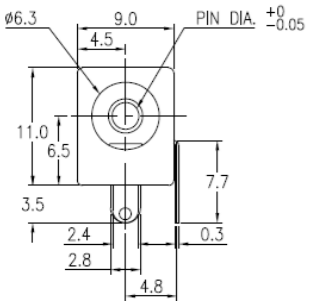
Pin No.	Pin Name	Signal Type	Pin Assignment
1	+5V	In	
2	USB-Data-	I/O	USB2.0 for touch
3	UDB-Data+	I/O	USB2.0 for touch
4	GND	GND	

3.1.6 DC Power Connector (IM-215-270/OM-101-270)

A 2.5mm center pin DC barrel jack connector is provided for power input.

- UL 94V-0 Rated

Pin No.	Pin Name	Signal Type
1	Center Pin +12V @5A	Power
2	GND	GND



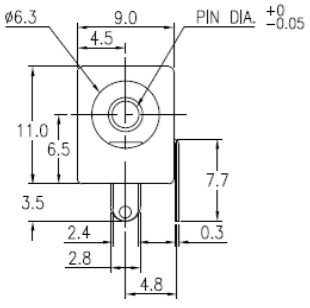
Use the cable clamp provided in the package contents to secure the DC power connector to the rear panel as shown below (IM Series shown, OM Series similar).



3.1.7 DC Power Connector (OM-320-430)

A 2.5mm center pin DC barrel jack connector is provided for power input.

Pin No.	Pin Name	Signal Type
1	Center Pin +24V @5A	Power
2	GND	GND



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3.2. Mechanical Dimensions

All dimensions are in mm.

3.2.1 IM Series

3.2.1.1. IM-150

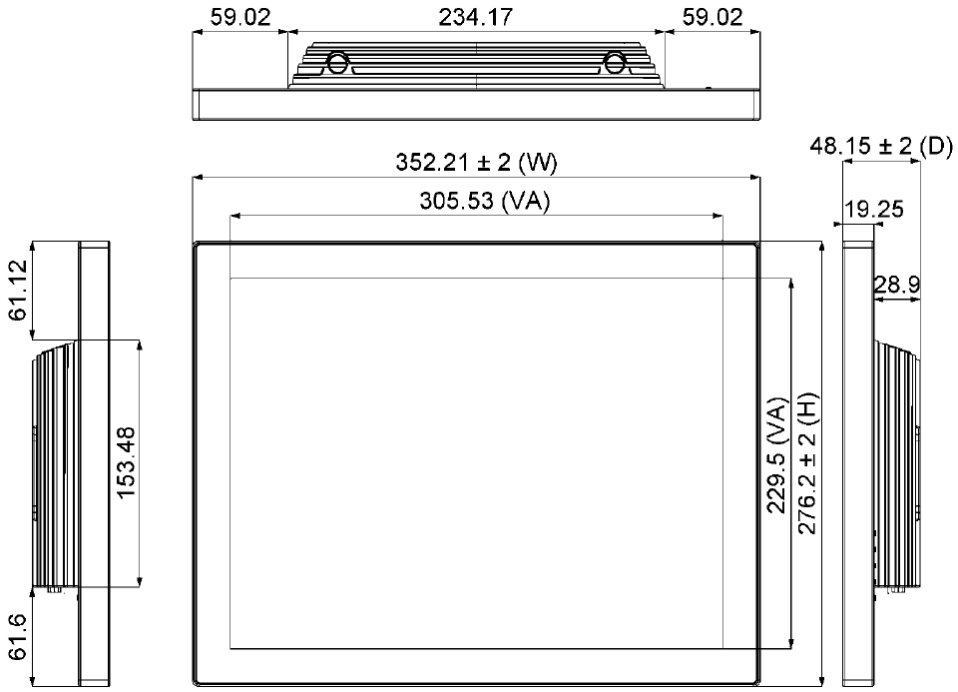


Figure 3: IM-150 Mechanical Dimensions

3.2.1.2. IM-170

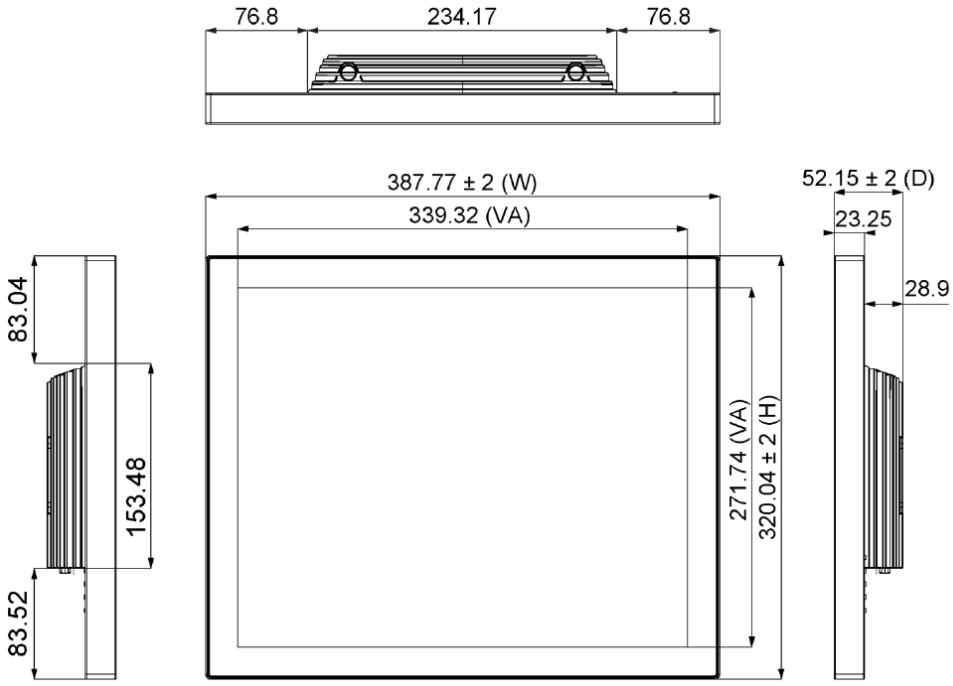


Figure 4: IM-170 Mechanical Dimensions

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3.2.1.3. IM-190

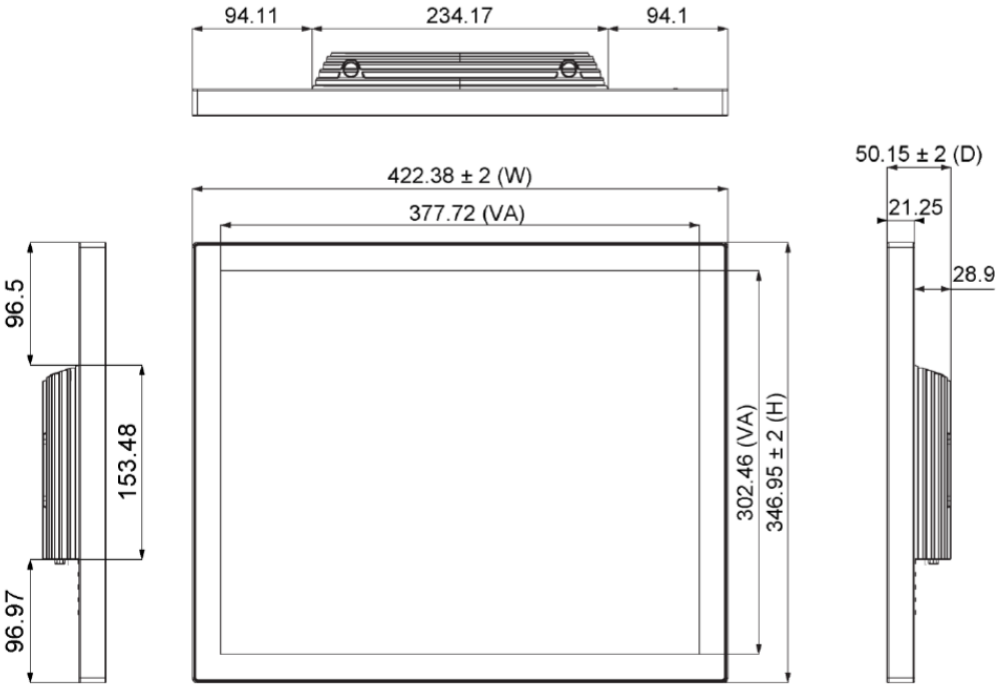


Figure 5: IM-190 Mechanical Dimensions

3.2.1.4. IM-215 and IM-215H

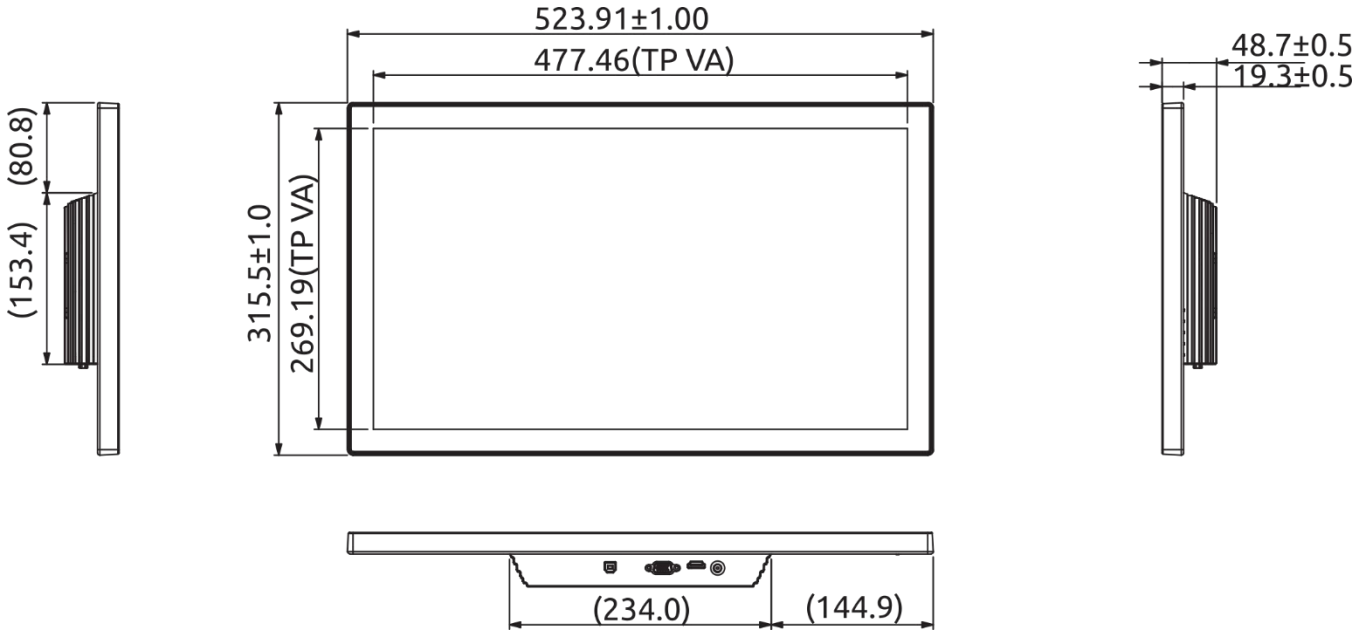


Figure 6: IM-215 Mechanical Dimensions

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3.2.1.5. IM-238

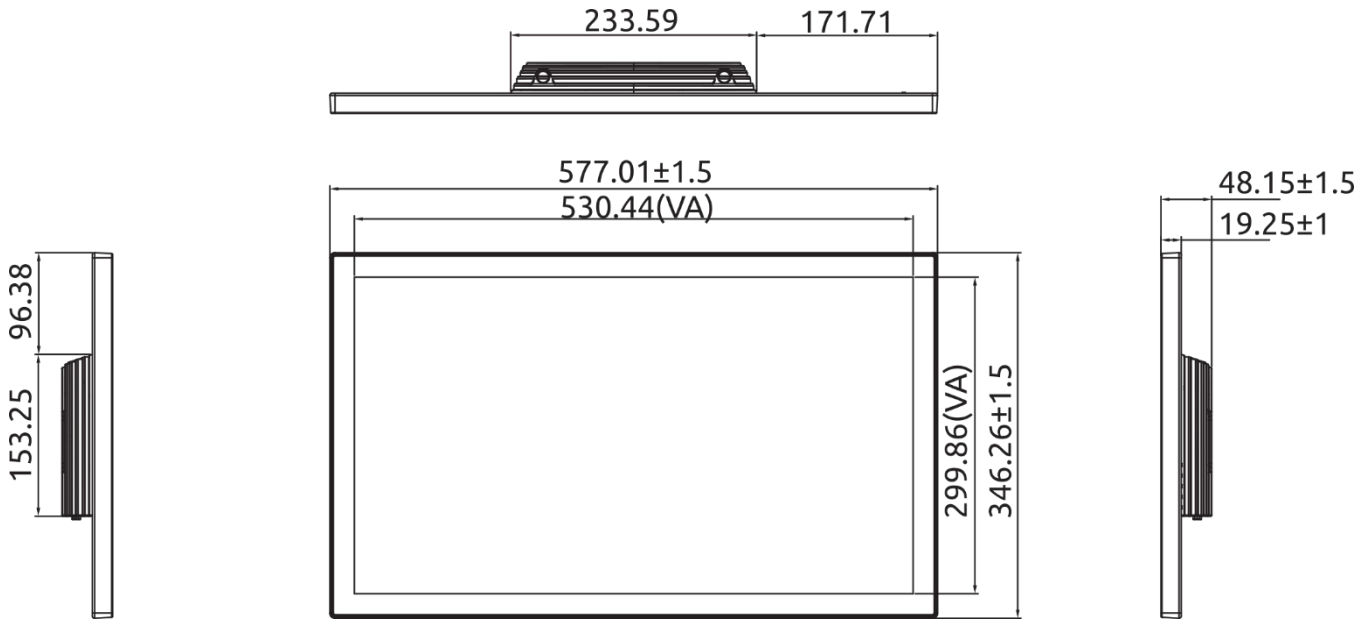


Figure 7: IM-238 Mechanical Dimensions

3.2.1.6. IM-270

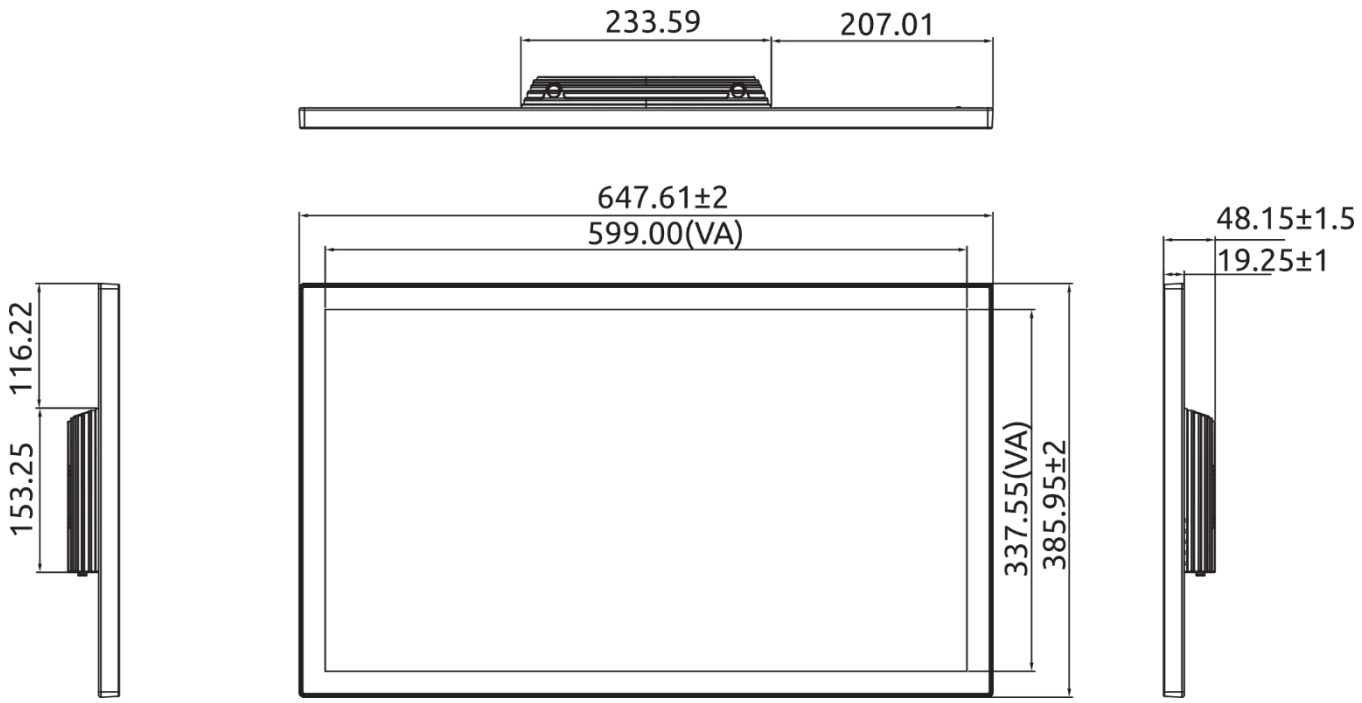


Figure 8: IM-270 Mechanical Dimensions

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3.2.2 OM Series (4:3)

3.2.2.1 OM-070

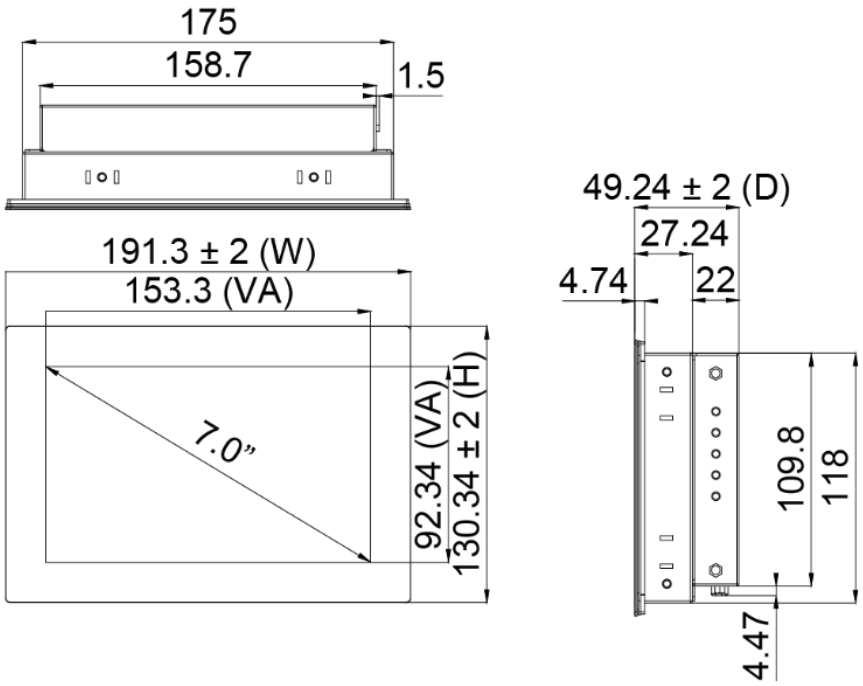


Figure 9: OM-070 Mechanical Dimensions

3.2.2.2 OM-121

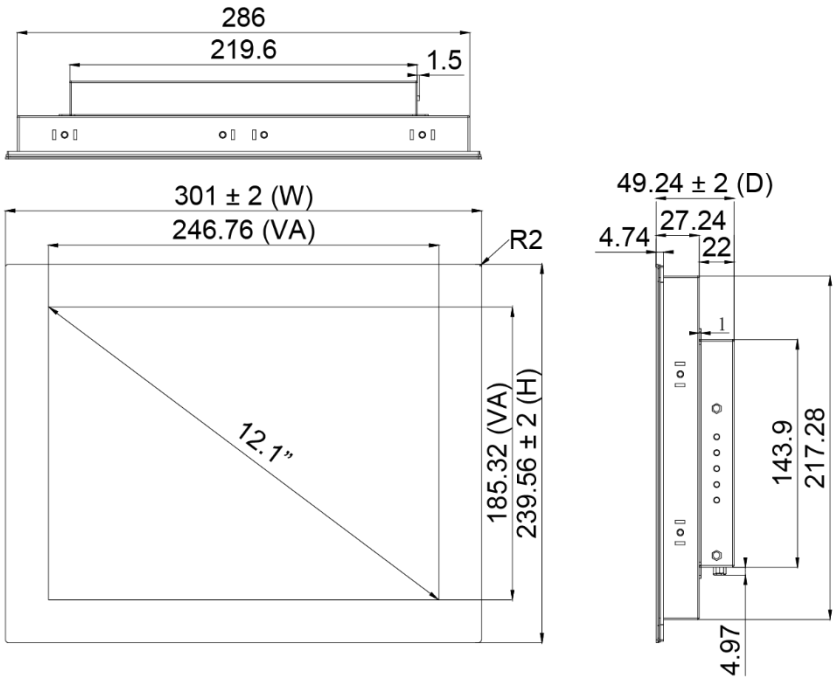


Figure 10: OM-121 Mechanical Dimensions

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3.2.2.3 OM-150

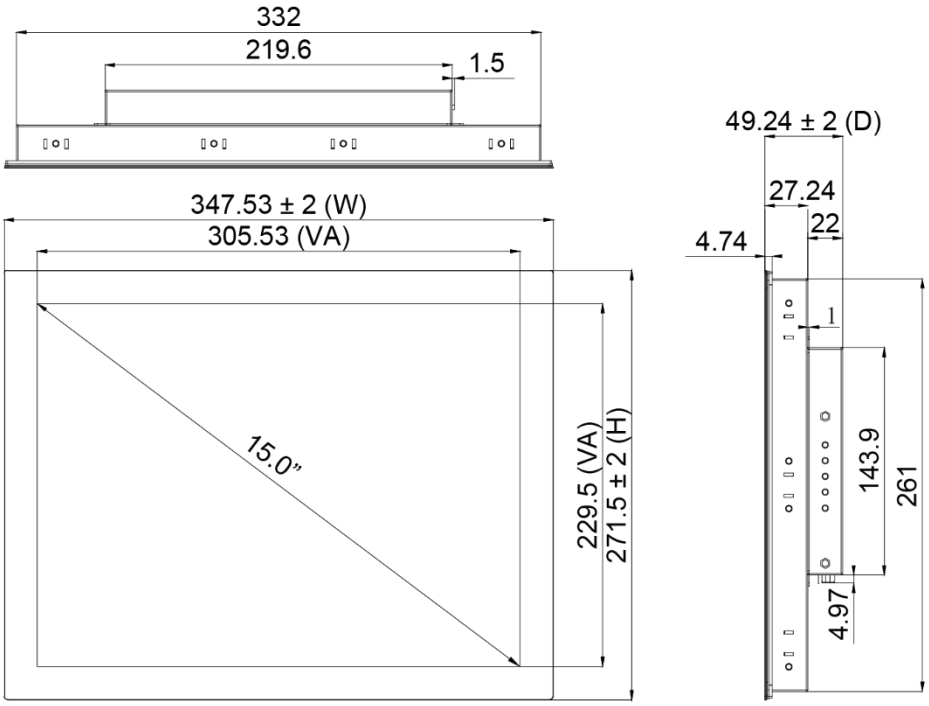


Figure 11: OM-150 Mechanical Dimensions

3.2.2.4 OM-170

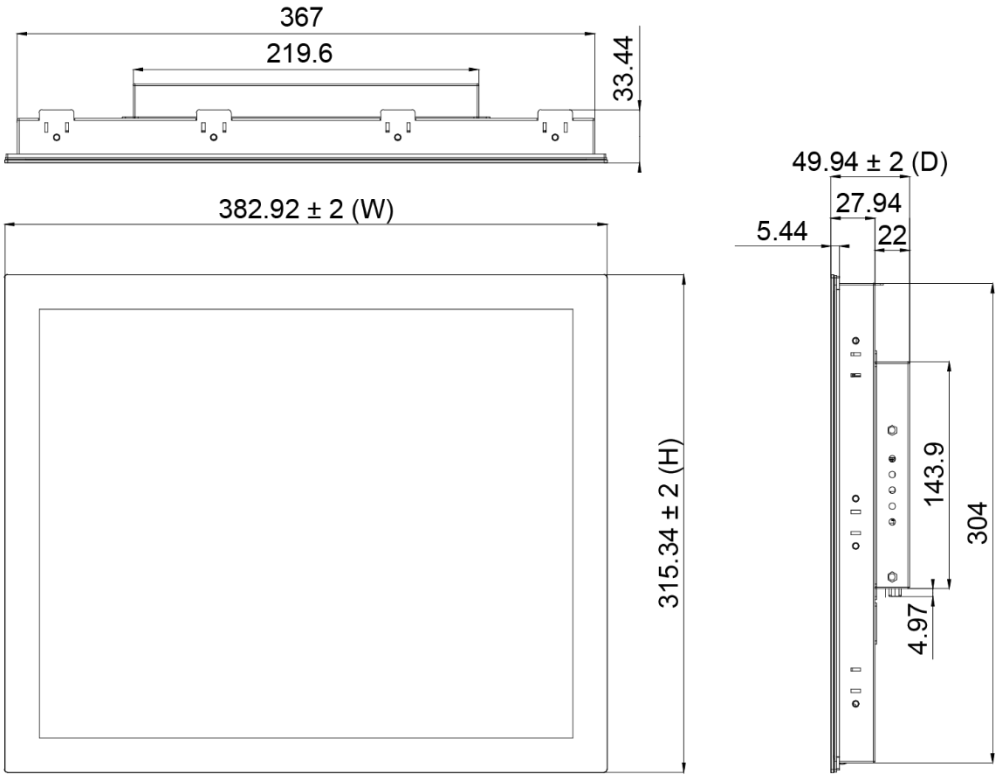


Figure 12: OM-170 Mechanical Dimensions

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3.2.2.5 OM-190

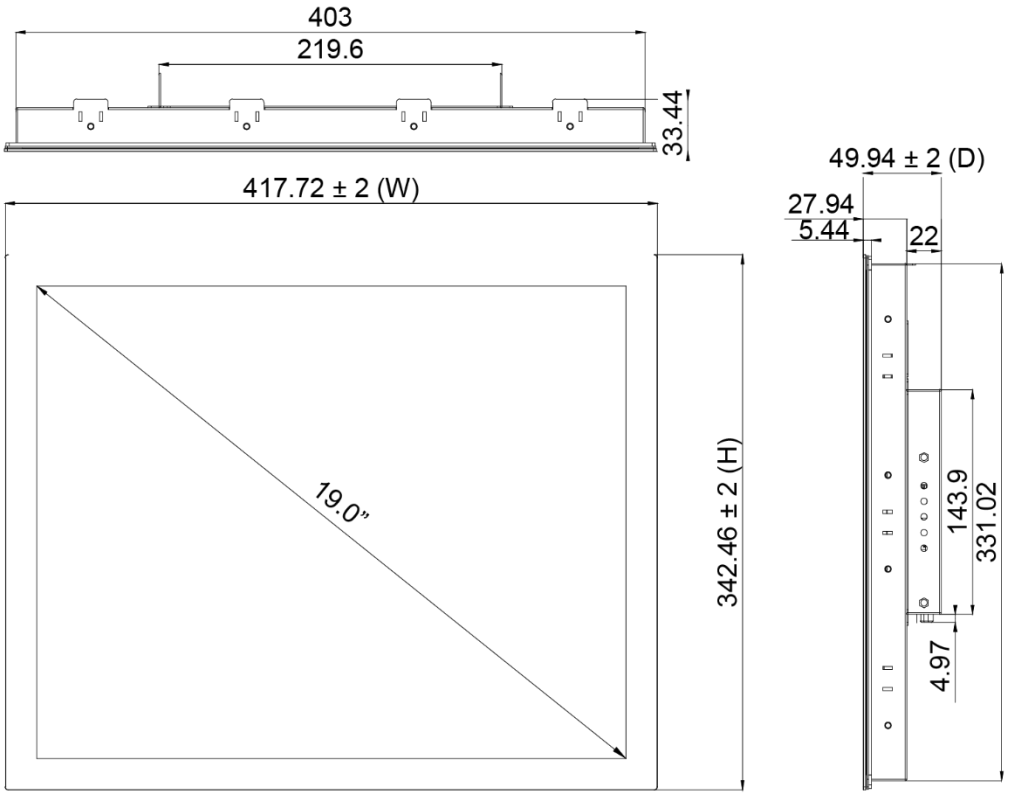


Figure 13: OM-190 Mechanical Dimensions

3.2.3 OM Series (16:9)

3.2.3.1 OM-101

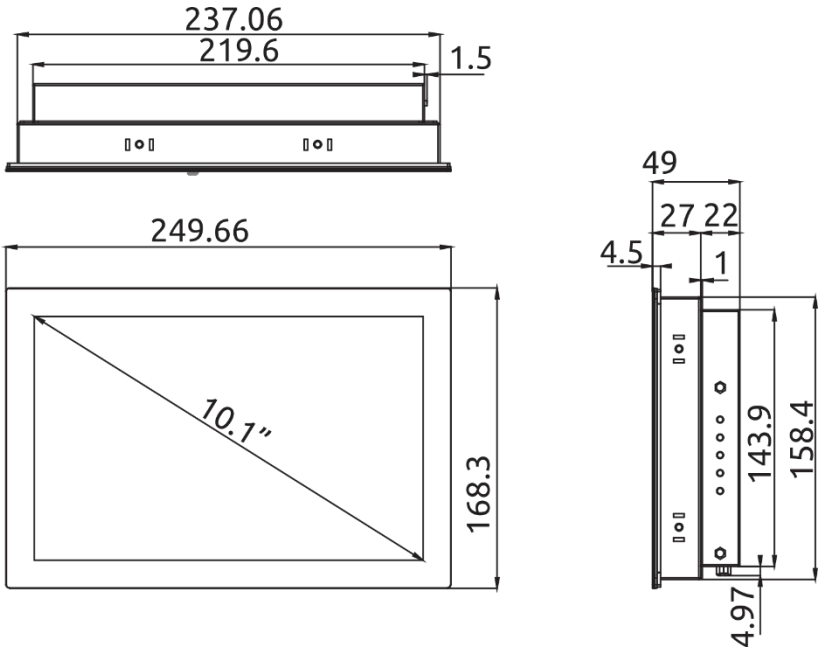


Figure 14: OM-101 Mechanical Dimensions

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3.2.3.2 OM-156

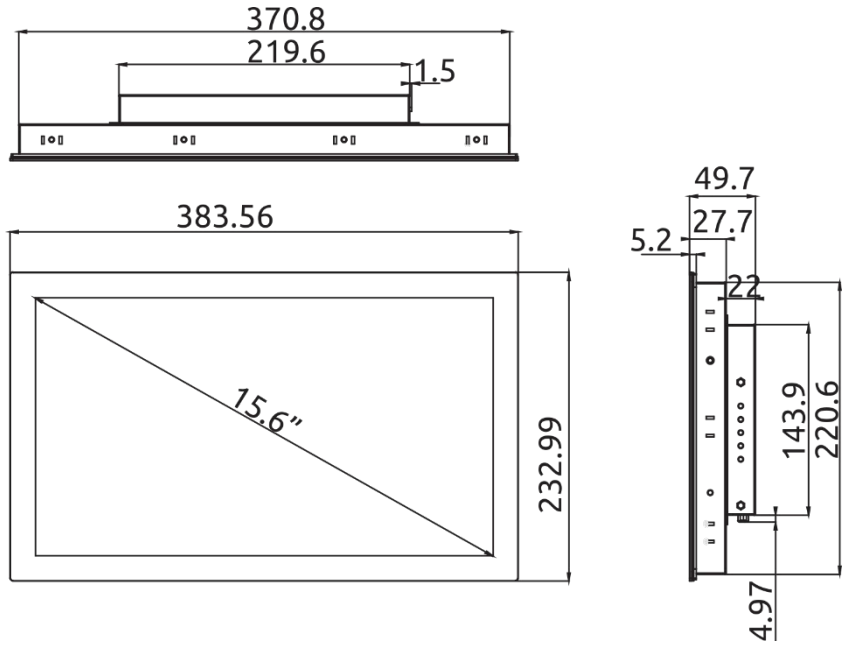


Figure 15: OM-156 Mechanical Dimensions

3.2.3.3 OM-185

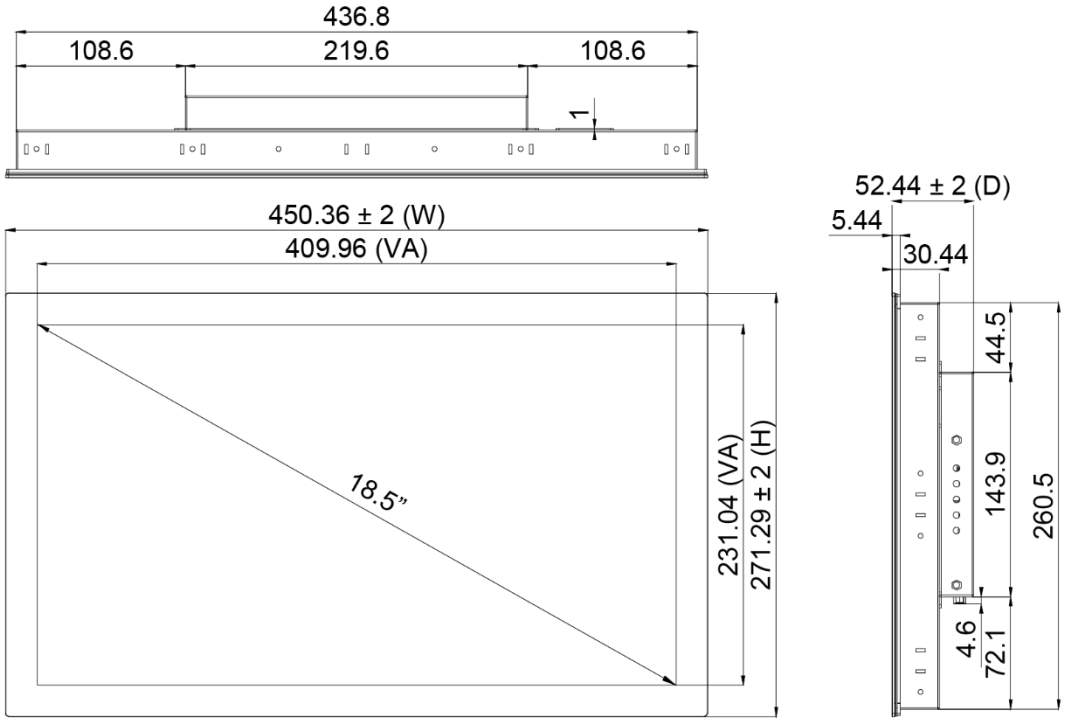


Figure 16: OM-185 Mechanical Dimensions

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3.2.3.4 OM-215 and OM-215H

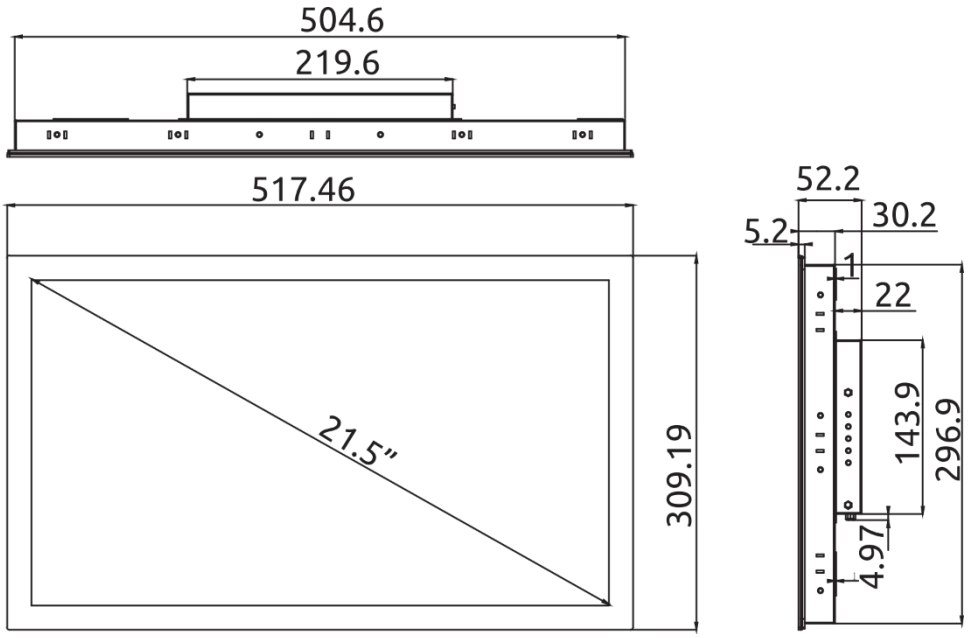


Figure 17: OM-215 Mechanical Dimensions

3.2.3.5 OM-238

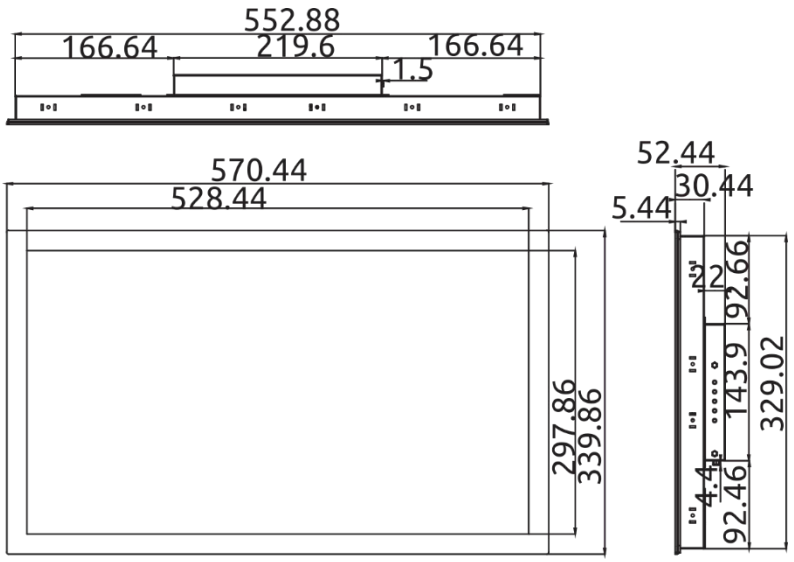


Figure 18: OM-238 Mechanical Dimensions

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3.2.3.6 OM-270

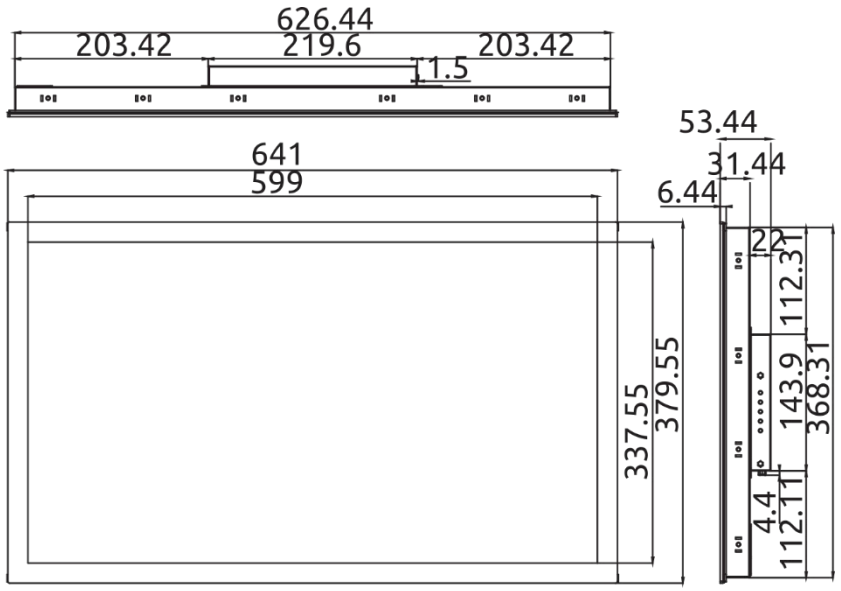


Figure 19: OM-270 Mechanical Dimensions

3.2.3.7 OM-320

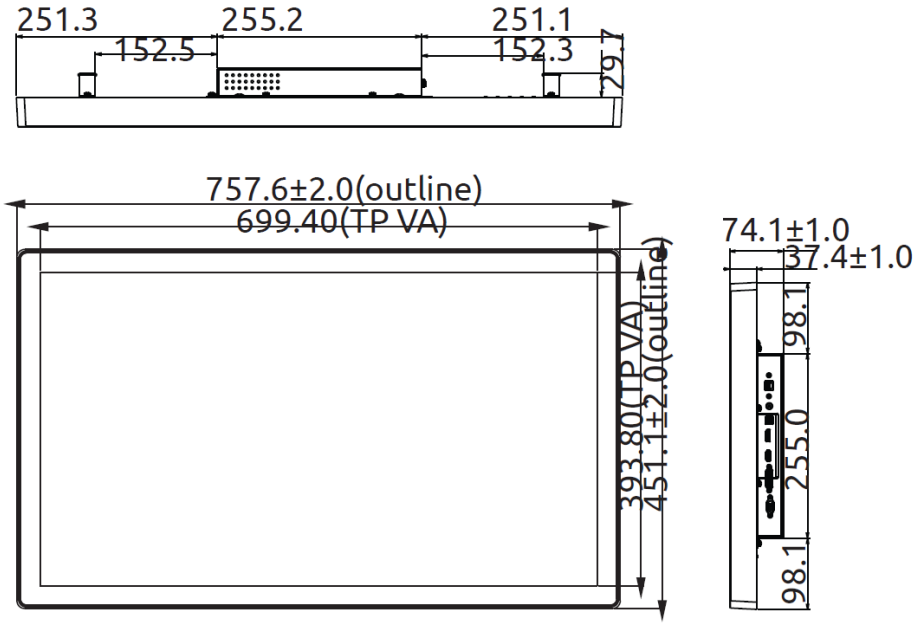


Figure 20: OM-320 Mechanical Dimensions

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3.2.3.8 OM-430

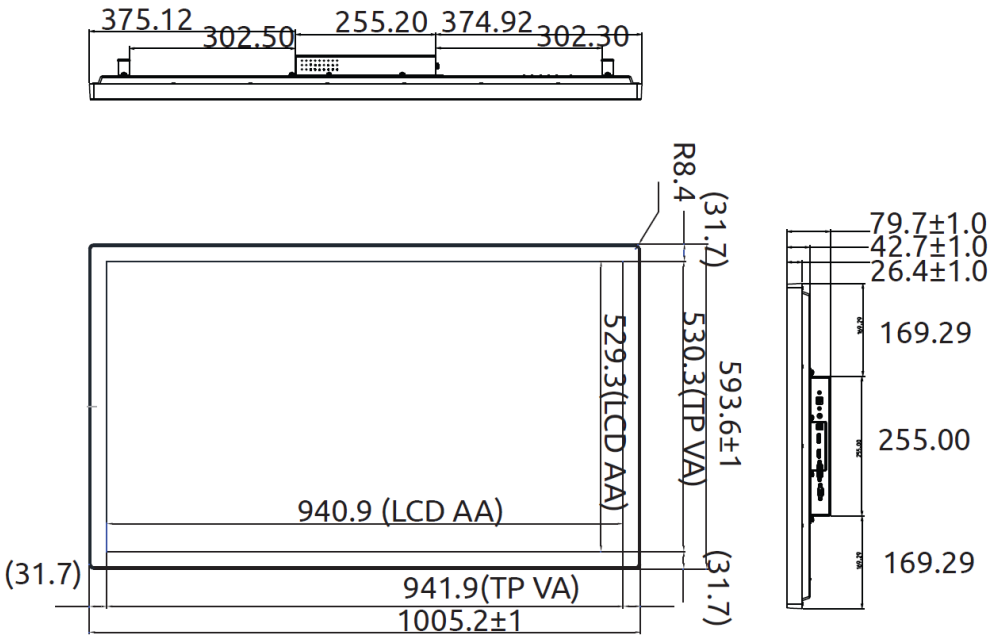


Figure 21: OM-430 Mechanical Dimensions

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3.3. Mounting

This section includes details for VESA and panel mounting options.

WARNING:

Risk of physical injuries and/or property damage:
When mounting the device, use four M4 x 6mm screws (IM-215-270/OM-101-270) or four M6 x 7mm (OM-320-430) to mount the VESA bracket to the rear of the device. Tighten all four screws firmly to support the weight of the device. Make sure that the suspension system is capable of supporting the device!

CAUTION:

Risk of burns to the user caused by hot surfaces:
Turn off power and allow the device to cool down prior to performing any mounting or unmounting operations. Avoid prolonged contact with the enclosure (over 10 seconds) when the device is in operation or is still hot from previous use.

3.3.1 VESA Mounting (All Models)

Note: The VESA mounting hole pattern is shown in the figures below. For IM-215-270/OM-101-270, all I/O ports **must** face down. For OM-320-430, the ports may face any direction.

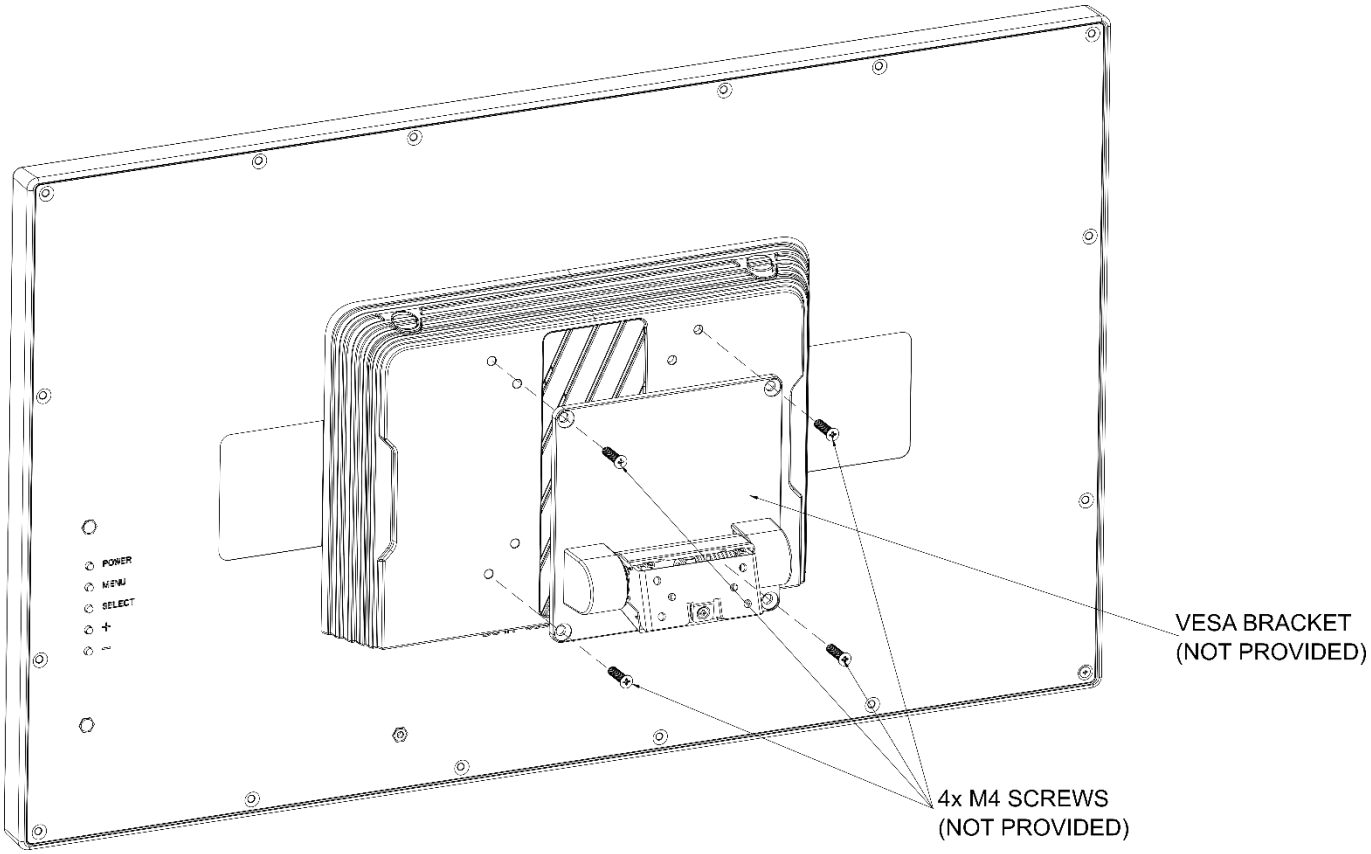


Figure 22: Attaching a VESA Mounting Bracket for IM-215-270/OM-101-270

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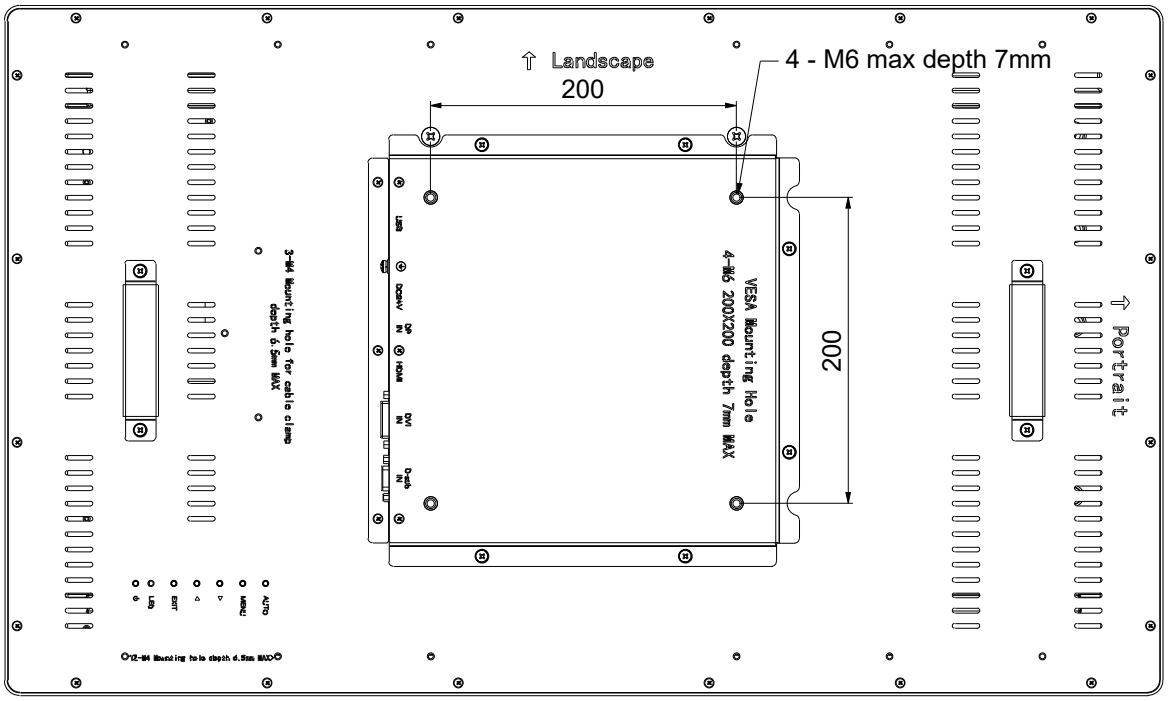


Figure 23: VESA Mounting for OM-320

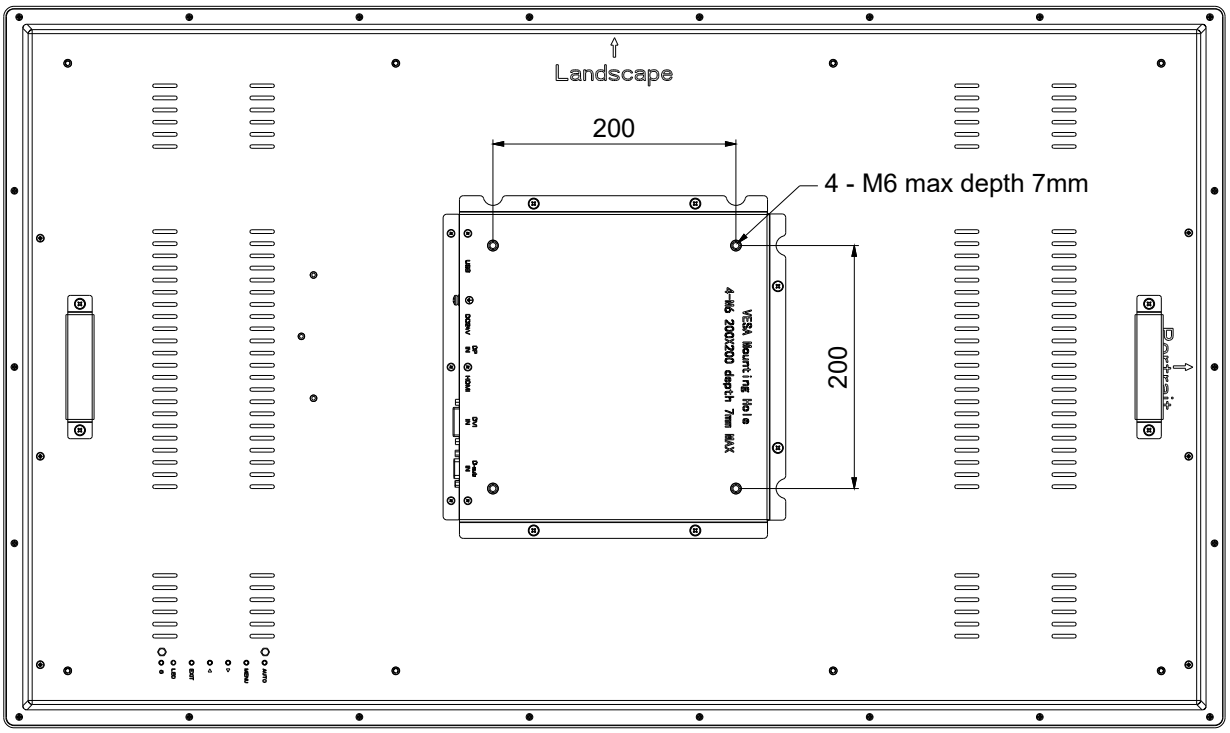


Figure 24: VESA Mounting for OM-430

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3.3.2 Panel Mounting (OM-070-270 only)

The OM-070-270 can be panel-mounted with 14 mounting clips (not included). Make sure there is adequate space behind the panel for ventilation, and that the panel material and thickness can support the weight of the device.

NOTE:

The schematics in this section are provided for reference only.

Before you begin: Make sure you have the mounting clips for the model you intend to mount.

Panel Mount Clips by Model

Button	Remark
OM-070	8
OM-101	8
OM-121	12
OM-150	14
OM-156	14
OM-170	14
OM-185	16
OM-190	14
OM-215	17
OM-238	20
OM-270	20

Step 1: Cut the panel opening using the appropriate cutout dimensions. All dimensions are in mm unless otherwise specified.

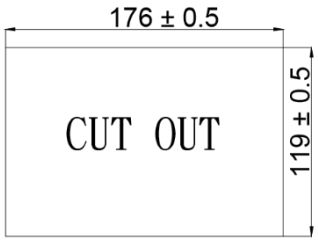


Figure 25: OM-070 Cut Out Dimensions

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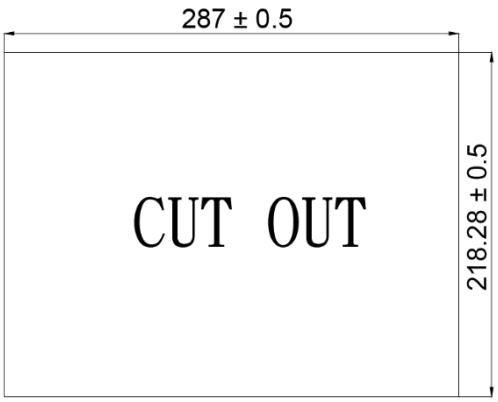


Figure 26: OM-121 Cut Out Dimensions

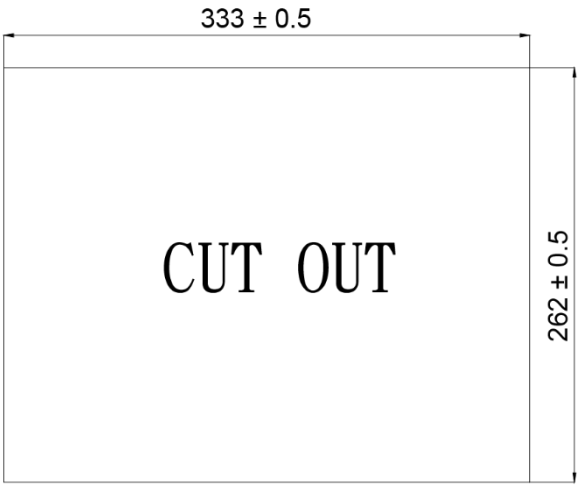


Figure 27: OM-150 Cut Out Dimensions

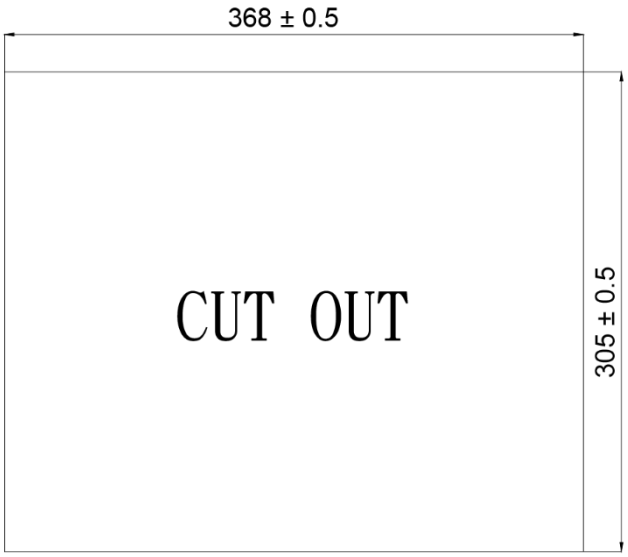


Figure 28: OM-170 Cut Out Dimensions

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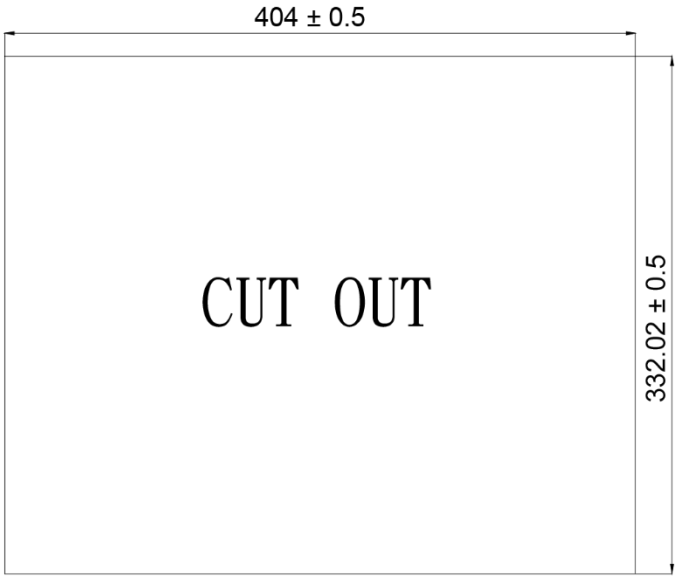


Figure 29: OM-190 Cut Out Dimensions

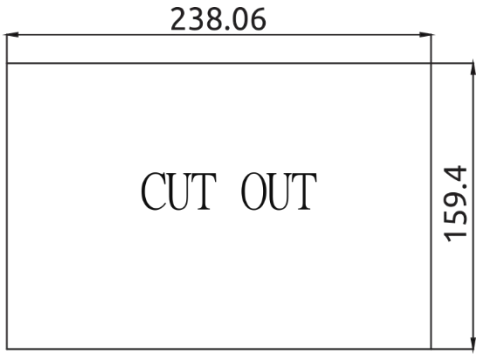


Figure 30: OM-101 Cut Out Dimensions

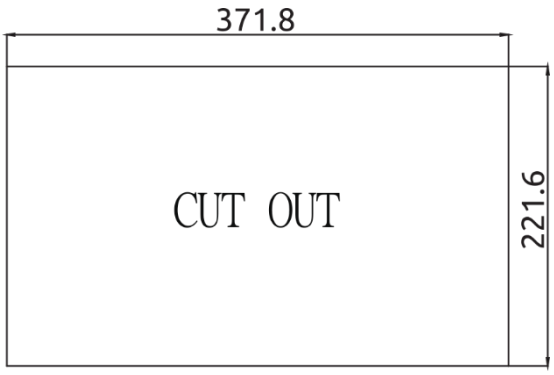


Figure 31: OM-156 Cut Out Dimensions

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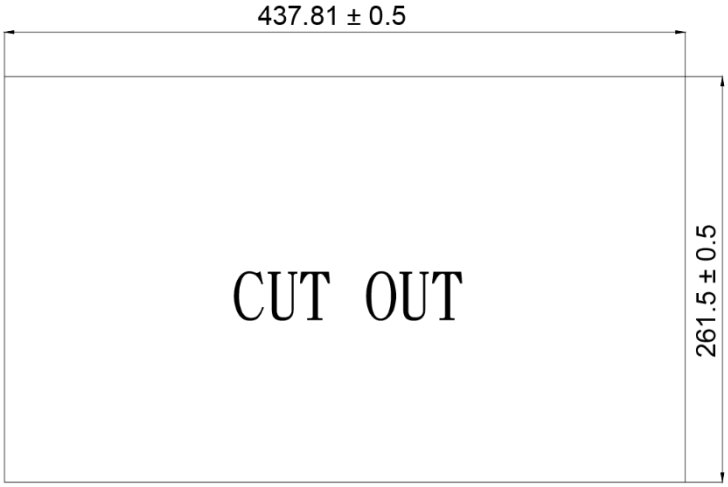


Figure 32: OM-185 Cut Out Dimensions

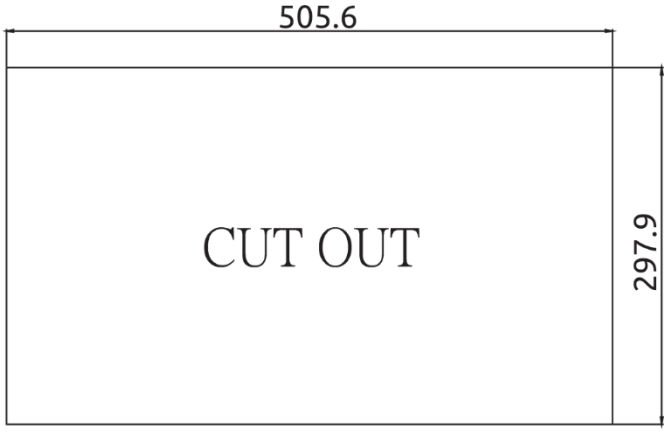


Figure 33: OM-215/OM-215H Cut Out Dimensions

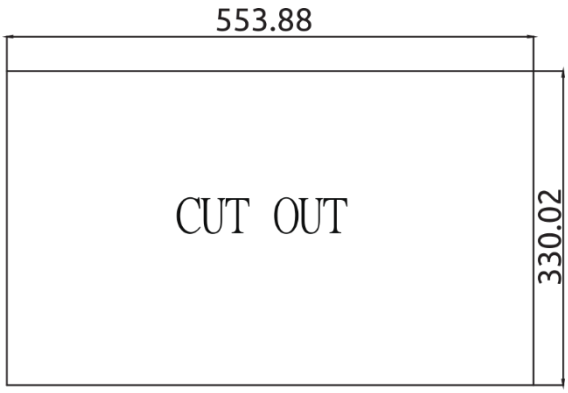


Figure 34: OM-238 Cut Out Dimensions

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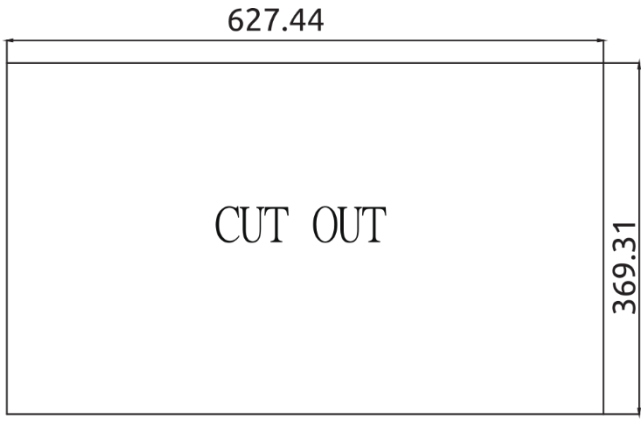


Figure 35: OM-270 Cut Out Dimensions

Step 2: If rear access will be limited after installation, attach I/O cables to the device before installing into the panel (see I/O Connectors on page 11).

Step 3: Place the device into the panel cutout.

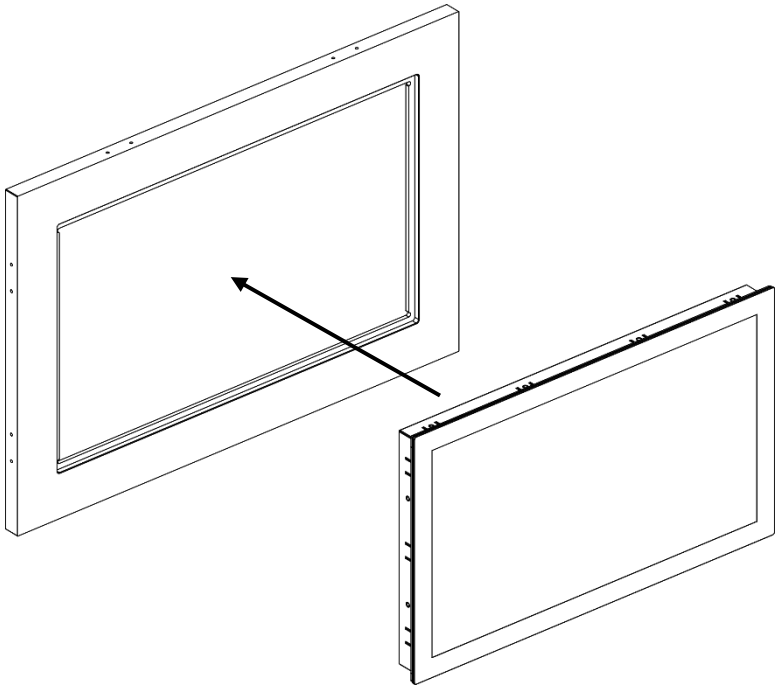


Figure 36: Insert Monitor into Cut Out

Step 4: Insert the mounting clips into the slots on the sides of the device as shown. Hand-tighten the mounting clips with a Phillips-head screwdriver to secure it to the panel. A video tutorial for this step is available here:

https://www.youtube.com/watch?v=AK2uVC1Cc-Y



Do not overtighten the clips to avoid damaging the device enclosure.

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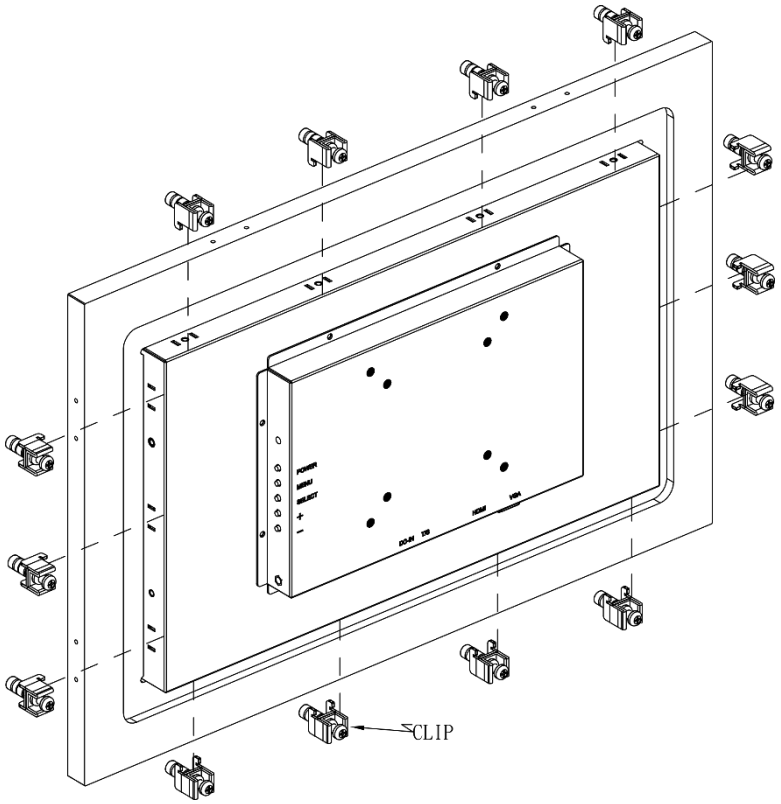


Figure 37: Secure Monitor with Mounting Clips

3.3.3 Panel Mounting (OM-320-430 only)

The OM-320-430 can be panel-mounted using the screw holes on the back of the device. For OM-320, 12 screw holes with a max depth of 7mm require a minimum of 8 screws (4 on each side) to support the weight of the device. For OM-430, 8 screw holes with a max depth of 7mm may be used. Make sure there is adequate space behind the panel for ventilation, and that the panel material and thickness can support the weight of the device.

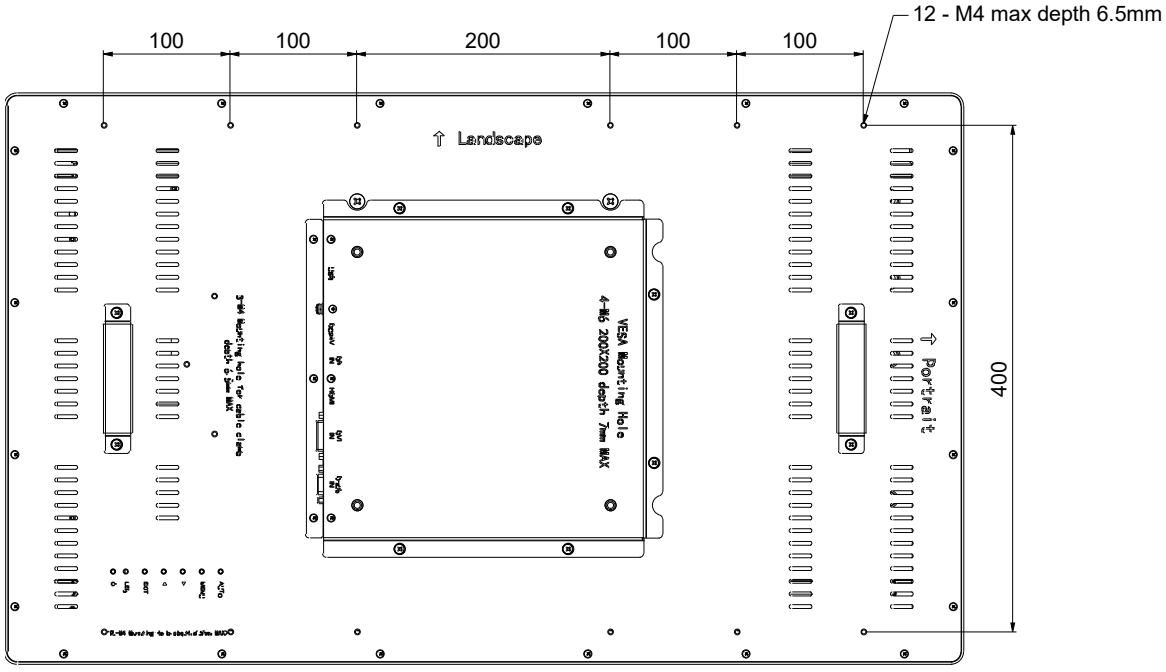


Figure 38: Panel Mount for OM-320

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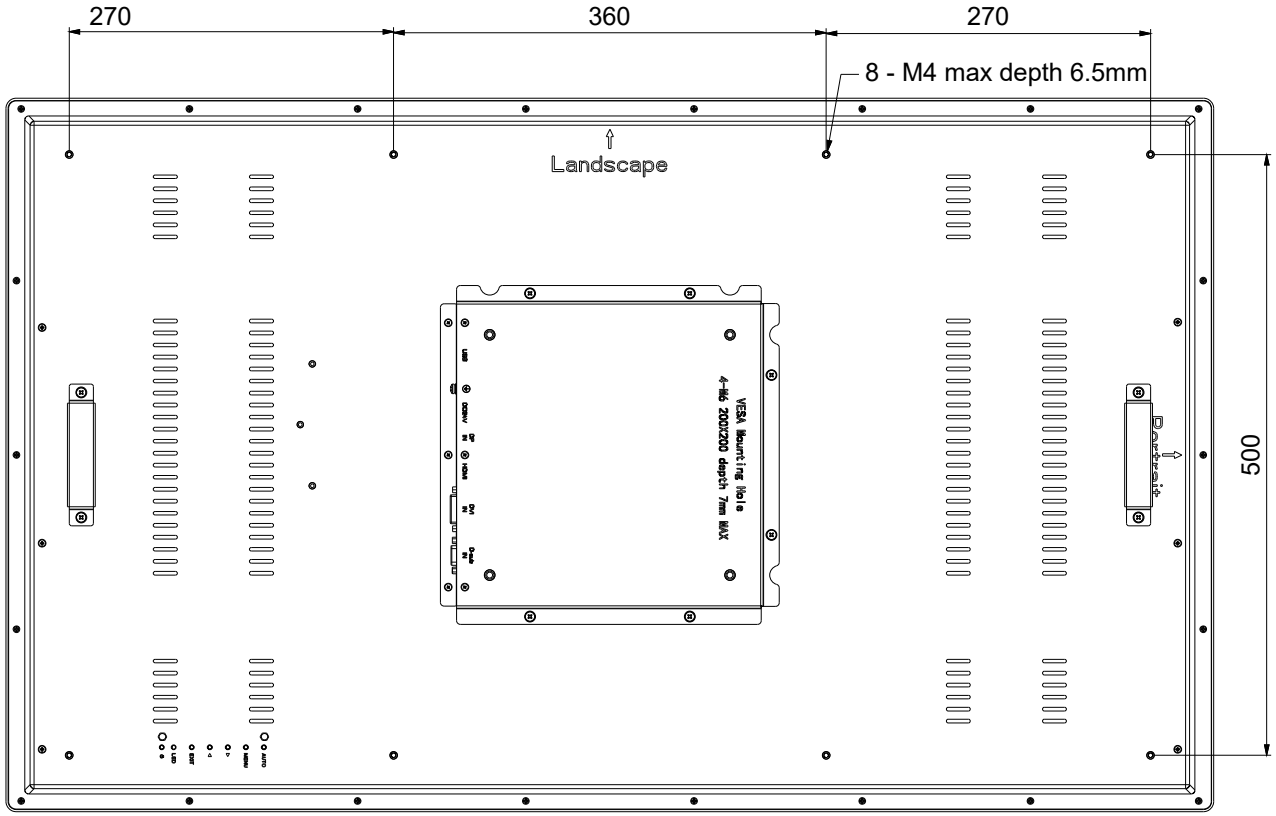


Figure 39: Panel Mount for OM-430

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4. On-Screen Display (OSD)

This chapter describes the IM/OM Series OSD features.

4.1. OSD Buttons

OSD buttons are located on the rear panel of the monitor.

4.1.1 IM-215-270/IM-215H/OM-070-270/OM-215H OSD Buttons

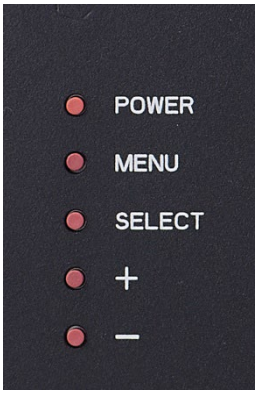


Figure 40: IM/OM Rear Panel OSD Buttons

Table 9 IM-215-270/IM-215H/OM-070-270/OM-215H OSD Button Functions

Button	Function	Remark
Power	Power On/Off	Press to power the monitor on/off. Press at least 1 second for power off.
Menu	OSD menu On/Off	Press to turn the OSD menu on/off.
	Leave OSD Submenu	Press to step out of a submenu.
Select	Step through menu	Press to step into a submenu.
	Execute Autotune (VGA only)	Press to execute autotune after clicking the "Auto" key.
+	Move up to next item	Press to move the cursor up to the next menu item.
	Increase value	Press to increase the value of an item.
-	Move down to next item	Press to move the cursor down to the next menu item.
	Decrease value	Press to decrease the value of an item.

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4.1.2 OM-320-430 OSD Buttons



Figure 41: OM-320-430 Rear Panel OSD Buttons

Table 10: OM-320-430 OSD Button Functions

Button	Function	Remark
Auto	Execute Autotune (VGA only)	Press to execute autotune after clicking the "Auto" key.
Menu	OSD menu	Press to open the OSD menu.
	Enter/select/deselect	Press to enter a submenu or select an item.
►	Move down to next item	Press to move the cursor down to the next menu item.
	Increase value	Press to increase the value of an item.
◄	Move up to next item	Press to move the cursor up to the next menu item.
	Decrease value	Press to decrease the value of an item.
Exit	Press to exit	
Power	Power On/Off	Press to power the monitor on/off. The monitor takes a few seconds to power on and off after pressing.

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4.2. OSD Menus

4.2.1 OM-070/121/150/170/190/215H

The table below lists the OSD menu structure and items.

Table 11: OSD Menu Overview for OM-070/121/150/170/190/215H

Main Menu	Submenu	Item	Value/Range	Default Value	Comment
Picture	Auto Dimming	Toggle	Off/On	Off	Toggle Auto Dimming feature
	Brightness	Slider	0-100	50	Adjust brightness
	Contrast	Slider	0-100	50	Adjust contrast
	Auto Color	Toggle			Auto tune color settings
Color	Temperature	Text	9300K 6500K 5800K User	6500k	Select color temperature
	Red	Slider	0-100	100	Adjust red level
	Green	Slider	0-100	100	Adjust green level
	Blue	Slider	0-100	100	Adjust blue level
Input	Auto Select				Auto select input source
	VGA				Set input source as VGA
	HDMI				Set input source as HDMI
	HPosition	Slider	0-100	VGA adjustable	Adjust VGA screen horizontal position (VGA only)
	VPostion	Slider	0-100	VGA adjustable	Adjust VGA screen vertical position (VGA only)
	Clock	Slider	0-100	VGA adjustable	Adjust VGA signal clock latency (VGA only)
	Phase	Slider	0-100	VGA adjustable	Adjust VGA signal clock phase (VGA only)
	Aspect Ratio			Full	Select aspect ratio
	Auto Adjust	Text			Auto adjust VGA screen (VGA only)
Language		Text	English French German Italiano Spanish 中文 簡中 日文	English	Set OSD language
Other	Transparency	Slider	0-100	100	Set OSD menu transparency
	Menu Time	Slider	0-100	100	Set OSD menu timeout
	OSD H Pos	Slider	0-100	100	Set OSD menu horizontal position
	OSD V Pos	Slider	0-100	100	Set OSD menu vertical position
	OSD Rotation				Adjust OSD rotation
	Reset				Reset OSD user setting
Information		Text			Display input source information

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4.2.1.1. Picture Menu

Submenu	Auto Dimming	Brightness	Contrast	Auto Color
Description	Controls BLU to adjust luminance. Values: Off/On	Brightness controls gray level offset to affect screen darkness. Values: 0-100	Contrast controls gray level gain to affect screen brightness. Values: 0-100	Automatically adjust color.



4.2.1.2. Color Menu

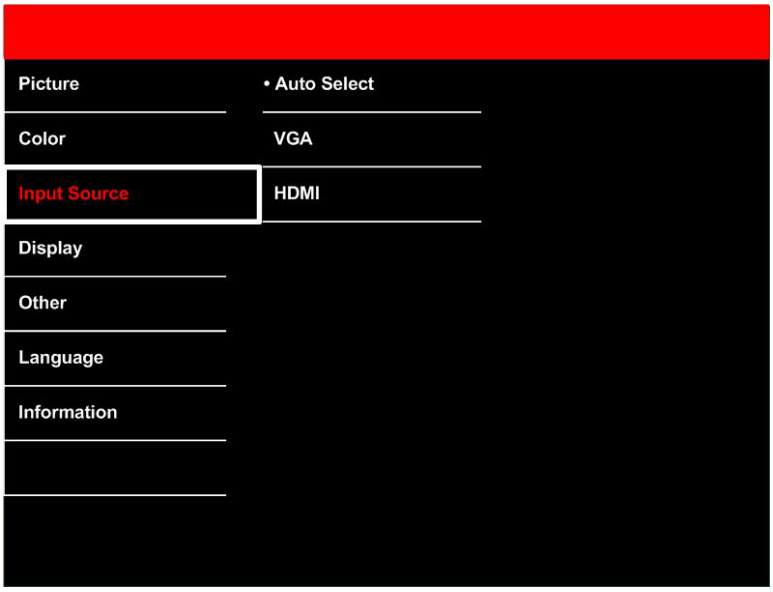
Submenu	Temperature	Red	Green	Blue
Description	Select color temperature. 9300K is cool 6500K is neutral 5800K is warm.	Adjust red level. Values: 0-100	Adjust green level. Values: 0-100	Adjust blue level. Values: 0-100.



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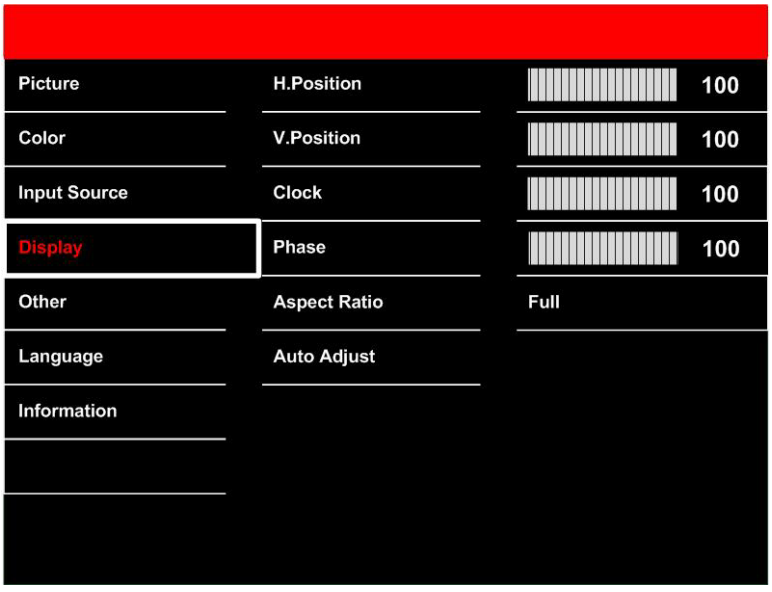
4.2.1.3. Input Menu

Submenu	Auto Select	VGA	HDMI
Description	Automatically selects available input source to display.	Input source is VGA.	Input source is HDMI.



4.2.1.4. Display Menu

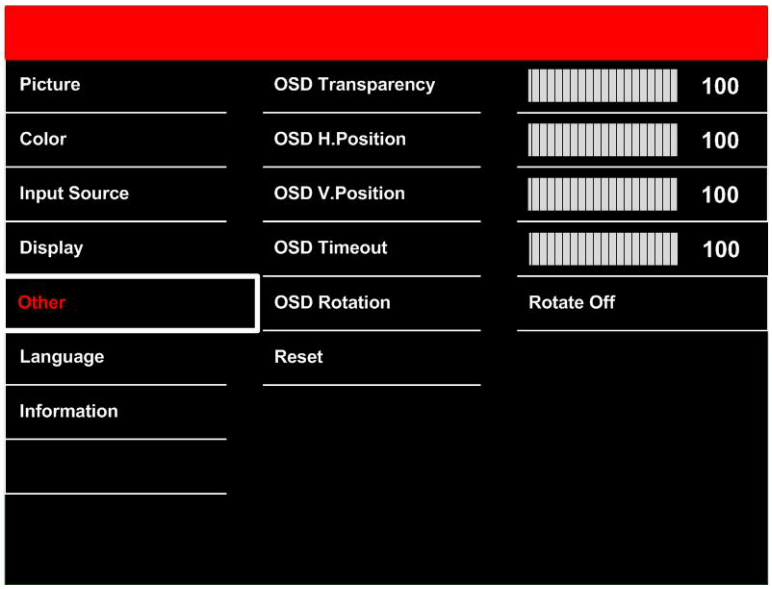
Submenu	HPosition	VPostion	Clock	Phase	Aspect Ratio	Auto Adjust
Description	Adjust the horizontal position of screen when input source is VGA.	Adjust the vertical position of screen when input source is VGA.	Adjust VGA signal clock latency to affect the image aspect rate of the screen.	Adjust VGA signal clock phase to affect the image edge of the screen.	Sets the screen aspect ratio.	Automatically adjust screen position to center when input source is VGA.



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4.2.1.5. Other Menu

Submenu	Transparency	Menu Time	OSD H Pos	OSD V Pos	OSD Timeout	OSD Rotation	Reset
Description	Adjusts the transparency of the OSD menu.	Controls OSD menu timeout.	Adjusts the horizontal position of the OSD menu.	Adjusts the vertical position of the OSD menu.	Adjusts the time before the OSD disappears.	Adjusts the roation of the OSD menu.	Resets OSD user setting to default.



4.2.1.6. Language Menu

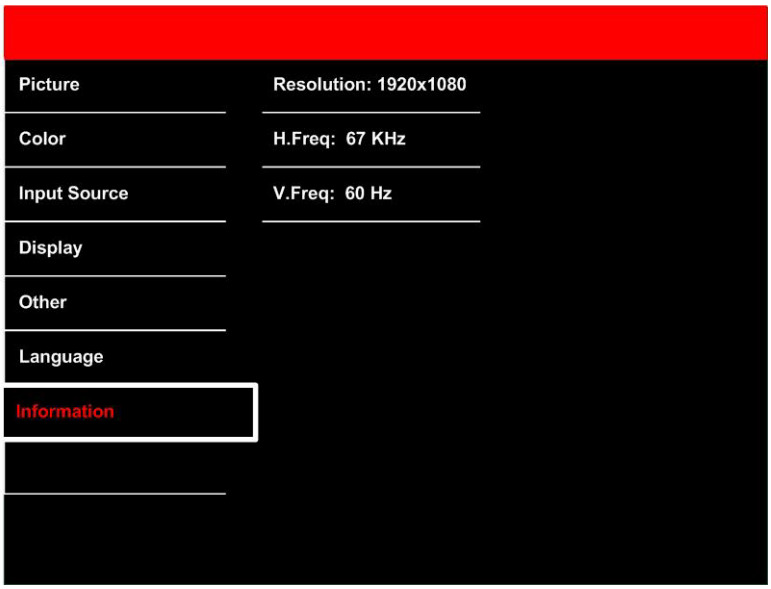
Submenu	English	French	German	Italiano	Spanish	繁體中文	簡中	日文



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4.2.1.7. Information Menu

This menu displays the input source information.



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4.2.2 OM-101/156/185/215/238/270 and IM-215/238/270

The table below lists the OSD menu structure and items.

Table 12: OSD Menu Overview for OM-101/156/185/215/238/270 and IM-215/238/270

Main Menu	Submenu	Item	Value/Range	Default Value	Comment
Picture	Backlight	Slider	0-100	100	Adjust luminance
	Brightness	Slider	0-100	48	Adjust brightness
	Contrast	Slider	0-100	50	Adjust contrast
	Sharpness	Slider	0-4	2	Adjust sharpness
Display	Auto Adjust	Text			Auto adjust VGA screen (VGA only)
	HPosition	Slider	0-100	VGA adjustable	Adjust VGA screen horizontal position (VGA only)
	VPostion	Slider	0-100	VGA adjustable	Adjust VGA screen vertical position (VGA only)
	Clock	Slider	0-100	VGA adjustable	Adjust VGA signal clock latency (VGA only)
	Phase	Slider	0-100	VGA adjustable	Adjust VGA signal clock phase (VGA only)
Color	Temperature	Text	9300K 6500K 5800K User	6500k	Select color temperature
	Hue	Slider	0-100	50	Adjust color hue
	Saturation	Slider	0-100	50	Adjust color saturation
	Auto Color	Text			Auto adjust color parameter on VGA
Advance	Aspect Ratio	Text	Full 16:9 4:3 5:4	Full	Select the aspect ratio of the screen
	Over Scan	Text	On/Off	On	Turn on/off over scan on screen
	DDCCI	Text	On/Off	On	Turn on/off DDCCI communication function
Input	Auto Select				Auto select input source
	VGA				Set input source as VGA
	HDMI				Set input source as HDMI
Other	Reset				Reset OSD user setting
	Menu Time	Slider	10-60	10	Set OSD menu timeout
	OSD H Pos	Slider	0-100	50	Set OSD menu horizontal position
	OSD V Pos	Slider	0-100	50	Set OSD menu vertical position
	Language	Text	English French German Italiano Spanish 中文 簡中 日文	English	Set OSD language
	Transparency	Slider	0-7	0	Set OSD menu transparency
Information		Text			Display input source information

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Table 13: OM-320SHV OSD Features

Main Menu	Sub-Menu1	Item	Value/Range	Default Value	Comment
Picture	Auto Dimming	Text	On/Off	Off	BLU dimming will be controlled by ambient light sensor
	Brightness	Slider	0-100	100	Adjust luminance
	Contrast	Slider	0-100	85	Adjust contrast
	AutoColor	Text			Auto adjust color parameter on VGA
Color	Color Temp.	Text	6500K 5700K 9300K User Color	User Color	Select color temperature Target CIE 1931 (x,y) 9300K: (0.283, 0.297) 6500K: (0.313, 0.329) 5700K: ((0.326, 0.342) tolerance: follow panel spec Contrast ratio follow the minimum of panel spec when Color temp. = "User color"
	Red	Slider	0-100	By panel native	Adjust red gain value (When Color Temp. = "User Color"). Default value is based on panel native.
	Green	Slider	0-100	By panel native	Adjust green gain value (When Color Temp. = "User Color"). Default value is based on panel native.
	Blue	Slider	0-100	By panel native	Adjust blue gain value (When Color Temp. = "User Color"). Default value is based on panel native.
Input Source	Auto Select	Text			Auto select input source
	VGA	Text			
	HDMI	Text			
Display	H.Position	Slider	0-100	By H position after auto adjustment	Adjust VGA screen horizontal position. (VGA only)
	V.Position	Slider	0-100	By V position after auto adjustment	Adjust VGA screen vertical position. (VGA only)
	Clock	Slider	0-100	By VGA singal after auto adjustment	Adjust VGA signal clock latency. (VGA only)
	Phase	Slider	0-100	By VGA singal after auto adjustment	Adjust VGA signal clock phase. (VGA only)
	Aspect Ratio	Text	Full 4:3 16:9 1:1	Full	Select the aspect ratio of screen Full: aspect to full screen 4:3: aspect to 4:3 ratio 16:9: aspect to 16:9 ratio 1:1: keep original ratio
	Auto Adjust	Text			Auto adjust the screen (only VGA)

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Other	OSD Transparency	Slider	0-100	20	Adjust OSD menu transparency
	OSD H.Position	Slider	0-100	50	Adjust OSD menu horizontal position
	OSD V.Position	Slider	0-100	50	Adjust OSD menu vertical position
	OSD Timeout	Slider	5-100	10	Adjust OSD menu time out
	OSD Rotation	Text	Rotate Off Rotate 90	Rotate Off	Select OSD rotate degree
	Reset	Text			Reset setting
Language	English	Text			Select OSD Language by option
	Francais	Text			
	Deutsch	Text			
	Italiano	Text			
	Espanil	Text			
	繁體中文	Text			
	簡體中文	Text			
	日文	Text			
Information		Text			Display input source information

Table 14: OM-430SV OSD Features

Main Menu	Sub-Menu1	Layer2 Menu	Type	Value/Range	Default Value	Comment
Brightness/Contrast	Brightness		Slider	0-100	100	Adjust luminance
	Contrast		Slider	0-100	85	Adjust contrast
Color Setting	Color Temperature		Text	5700K 6500K 9300K Default	Default	Select color temperature Target CIE 1931 (x,y) 9300K: (0.283, 0.297) 6500K: (0.313, 0.329) 5700K: ((0.326, 0.342) tolerance: follow panel spec Contrast ratio follow the minimum of panel spec when Color temp. = "Default"
	Gain	R	Slider	0-100	100	Adjust red gain value (When Color Temp. = "Default"). Default

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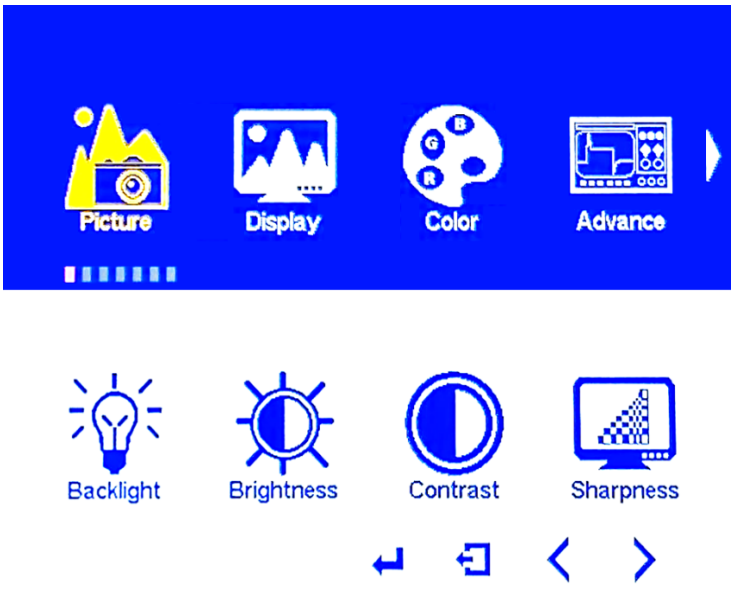
						value is based on panel native. Increase/decrease value is slightly different follow by color domain (YUV/RGB).
		G		0-100	100	Adjust green gain value (When Color Temp. = "Default"). Default value is based on panel native. Increase/decrease value is slightly different follow by color domain (YUV/RGB).
		B		0-100	100	Adjust blue gain value (When Color Temp. = "Default"). Default value is based on panel native. Increase/decrease value is slightly different follow by color domain (YUV/RGB).
Display setting	Aspect Ratio		Text	Full Screen Auto 4:3 5:4 16:9 1:1	Full	Select the aspect ratio of screen Full: aspect to full screen Auto: follow panel resolution 4:3: aspect to 4:3 ratio 5:4: aspect to 5:4 ratio 16:9: aspect to 16:9 ratio

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						1:1: keep original ratio
Input Source	Auto Select					Auto select input source
	HDMI1					
	HDMI2					
	DisplayPort					
Other setting	Menu Transparency		Slider	0-100	20	Adjust OSD menu transparency
	Menu Rotation		Text			Set OSD rotate (0/90 degree)
	Factory Reset		Text			Reset user setting OSD value to default

4.2.2.1 Picture Menu

Submenu	Backlight	Brightness	Contrast	Sharpness
Description	Controls BLU to adjust luminance. Values: 0-100	Brightness controls gray level offset to affect screen darkness. Values: 0-100	Contrast controls gray level gain to affect screen brightness. Values: 0-100	Adjusts image edge sharpness. Values: 0-4



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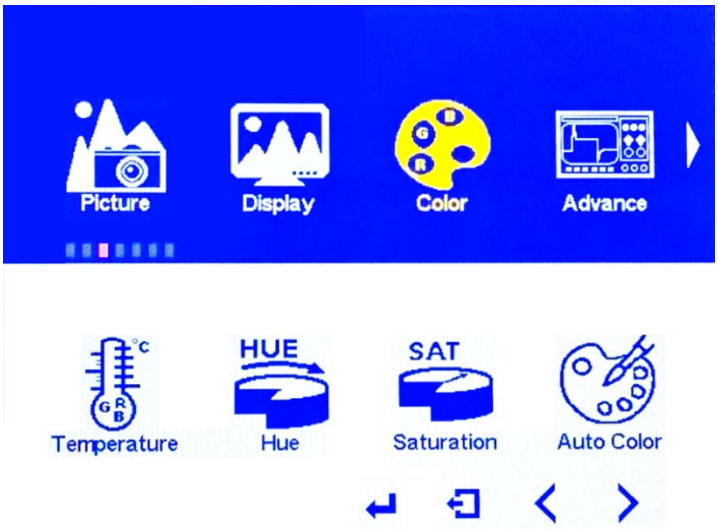
4.2.2.2 Display Menu

Submenu	Auto Adjust	HPosition	VPostion	Clock	Phase
Description	Automatically adjust screen position to center when input source is VGA.	Adjust the horizontal position of screen when input source is VGA.	Adjust the vertical position of screen when input source is VGA.	Adjust VGA signal clock latency to affect the image aspect rate of the screen.	Adjust VGA signal clock phase to affect the image edge of the screen.



4.2.2.3 Color Menu

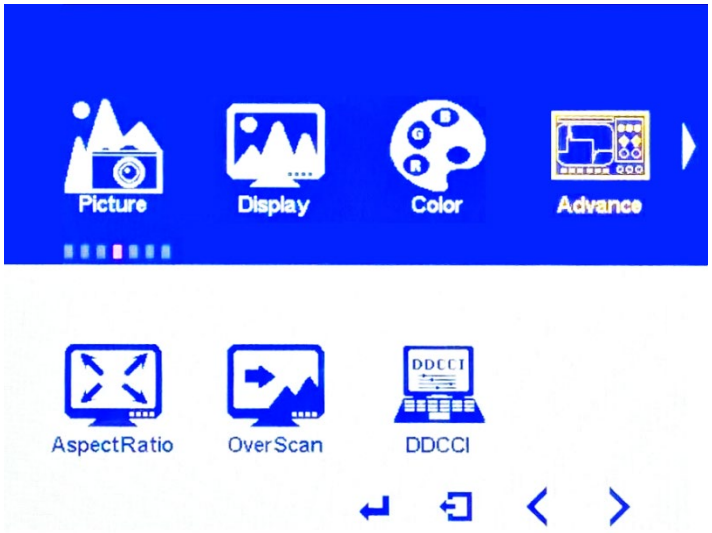
Submenu	Temperature	Hue	Saturation	Auto Color
Description	Select color temperature. 9300K is cool 6500K is neutral 5800K is warm.	Adjust hue to affect image color.	Adjust saturation to affect image color.	Automatically tune the color parameter when input source is VGA.



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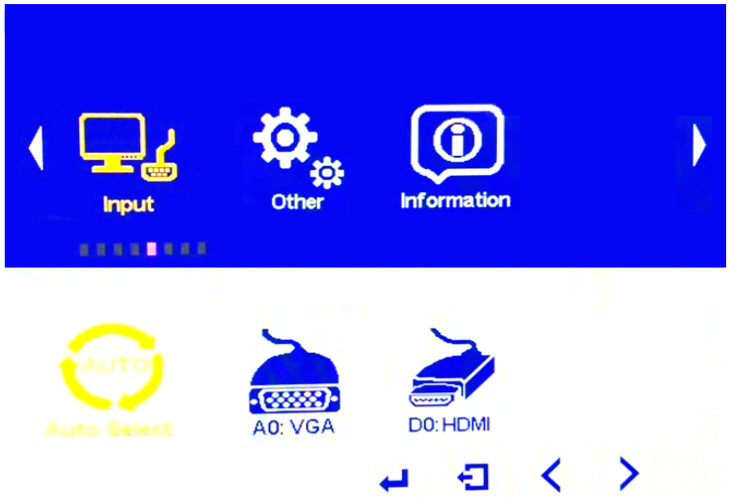
4.2.2.4 Advance Menu

Submenu	Aspect Ratio	Over Scan	DDCCI
Description	Sets the screen aspect ratio. **Full** fits the display to the current screen size. **16:9**, **4:3** and **5:4** adjust the display to fit the selected aspect ratio.	Adjusts image size to outside of the visible bounds of the screen, similar to a TV screen.	Enables DDC/CI protocol to communicate with host.



4.2.2.5 Input Menu

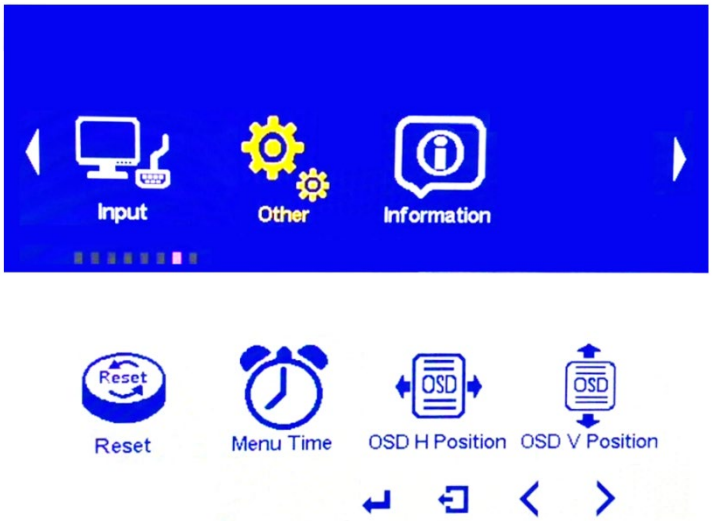
Submenu	Auto Select	VGA	HDMI
Description	Automatically selects available input source to display.	Input source is VGA.	Input source is HDMI.



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4.2.2.6 Other Menu

Submenu	Reset	Menu Time	OSD H Pos	OSD V Pos	Language	Transparency
Description	Resets OSD user setting to default.	Controls OSD menu timeout.	Adjusts the horizontal position of the OSD menu. Values: 0-100.	Adjusts the vertical position of the OSD menu. Values: 0-100.	Selects the language of the OSD menu.	Adjusts the transparency of the OSD menu.



4.2.2.7 Information Menu

This menu displays the input source information.

4.2.3 OSD Menus for OM-320-430

The table below lists the OSD menu structure and items.

Table 15: OSD Menu Overview for OM-320-430

Main Menu	Submenu	Item	Value/Range	Default Value	Comment
Image	Brightness	Slider	0-100	100	Adjust brightness
	Contrast	Slider	0-100	50	Adjust contrast
	Black level	Slider	0-100	50	Adjust black level
	Mode	Selection	Mode 1/2/3/4	Mode 1	Adjust preset mode
	ImageRatio	Selection	Wide / 4:3	Wide	Select the aspect ratio of the screen
Color	Color Temp	Toggle	User/Cool/Normal/Warm/Native	User	Select color profile
	Red	Slider	0-100	50	Adjust red level (User only)
	Green	Slider	0-100	50	Adjust green level (User only)
	Blue	Slider	0-100	50	Adjust blue level (User only)
Source	Input Select	Selection	DVI/VGA/HDMI/DP		Change input
	H.Position	Slider	0-100	50	Adjust VGA screen horizontal position (VGA only)
	V.Position	Slider	0-100	50	Adjust VGA screen vertical position (VGA only)
	Clock	Slider	0-100	50	Adjust VGA signal clock latency (VGA only)
	Phase	Slider	0-100	50	Adjust VGA signal clock phase (VGA only)
Osd	Language	Selection	English/ Simplified Chinese / Traditional Chinese / Japanese	English	Select OSD language
	H.Position	Slider	0-100	100	Adjust OSD horizontal position (0-100, left to right)
	V.position	Slider	0-100	0	Adjust OSD vertical position (0-100, bottom to top)
	Timeout	Slider	0-100	30	Adjust delay in seconds before OSD automatically closes
	Transparence	Slider	0-100	0	Adjust OSD transparency (0 is opaque)
Misc	Sharpness	Slider	0-100	50	Adjust sharpness
	DPMS	Selection	On/Off	Off	Toggle VESA Display Power Management Signaling
	Auto Config	Toggle			Auto adjust VGA screen (VGA only)
	Auto Color	Toggle			Auto adjust color parameter on VGA (VGA only)
	Reset	Toggle			Factory reset
Info		Text			Display version information

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5. Troubleshooting

In the event that you experience trouble with your monitor, check the following items before contacting the dealer from whom the monitor was purchased. The most common problems usually involve an incorrect connection from the graphics card to the monitor. We recommend that you also consult your graphics card user's manual during the troubleshooting procedure.

Do not exceed the maximum refresh rate recommended for the monitor.

Problem	Solution
Blank screen	1. Check that power cord of the computer or AV device has been plugged securely into a wall outlet. 2. Check that the monitor has been turned on. 3. Check that the video signal cable from the monitor has been securely and correctly connected. 4. Check that the graphics card is firmly seated in the card slot of the computer motherboard. 5. Check that the video input from the graphics card falls within the timing range of the monitor.
Abnormal image	1. Check that the video input from the graphics card falls within the timing range of the monitor. 2. Check that the video signal cable from the monitor has been securely and correctly connected to the video connector of the computer.
Abnormal color	Check that the video cable from the display has been securely and correctly connected to the video connector of the computer.
Garbled image	1. OSD adjustment is incorrect. Refer to OSD screen adjustment procedures. 2. Run autotuning from the OSD adjustment menu (VGA only).
Unresponsive touch	Verify the USB cable is correctly attached and functional.

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Safety Instructions

Read and follow all instructions marked on the product and in the documentation before you operate your system. Retain all safety and operating instructions for future use.

- Please read these safety instructions carefully.
- Please keep this User‘s Manual for later reference.
- Read the specifications section of this manual for detailed information on the operating environment of this equipment.
- Prior to installing/mounting or uninstalling/removing equipment, turn off the power and unplug any power cords/cables. Please observe the mounting instructions provided in this manual.
- If the device is still hot from previous use, allow the device to cool down prior to performing any mounting/unmounting operations.
- To avoid electrical shock and/or damage to equipment:
  - Keep equipment away from water or liquid sources.
  - Keep equipment away from high heat or high humidity.
  - Keep equipment properly ventilated (do not block or cover ventilation openings).
  - Make sure to use recommended voltage and power source settings.
  - Always install and operate equipment near an easily accessible electrical socket-outlet.
  - Ensure to connect the power adapter to an electrical outlet with a grounded connection.
  - Secure the power cord (do not place any object on/over the power cord).
  - Only install/attach and operate equipment on stable surfaces and/or recommended mountings.
  - If the equipment will not be used for long periods of time, turn off and unplug the equipment from its power source.
- Never attempt to fix the equipment. Equipment should only be serviced by qualified personnel.
- Failure to comply with the instructions above could result in physical injuries and/or property damage.

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ADLINK Technology, Inc.
Address: No.66, Huaya 1st Rd., Guishan Dist, Taoyuan City 333411, Taiwan
Tel: +886-3-216-5088
Fax: +886-3-328-5722
Email: service@adlinktech.com

Ampro ADLINK Technology, Inc.
Address: 6450 Via Del Oro, San Jose, CA 95119-1208, USA
Tel: +1-408-360-0200
Toll Free: +1-800-966-5200 (USA only)
Fax: +1-408-600-1189
Email: info@adlinktech.com

ADLINK Technology (China) Co., Ltd.
Address: 300 Fang Chun Rd., Zhangjiang Hi-Tech Park, Pudong New Area, Shanghai, 201203 China
Tel: +86-21-5132-8988
Fax: +86-21-5132-3588
Email: market@adlinktech.com

ADLINK Technology GmbH
Address: Hans-Thoma-Straße 8-10, 68163, Mannheim, Germany
Tel: +49-621-43214-0
Fax: +49-621 43214-30
Email: emea@adlinktech.com

Please visit the Contact page at www.adlinktech.com for information on how to contact the ADLINK regional office nearest you.

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000