

PortSignum

User Manual

LCD Monitor

PSIV-430/550/650

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Installation

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Safety Precautions

Warning

A serious or fatal injury may result if instructions are not followed carefully.

Caution

A damage of the product or personal injury may follow if instructions are not followed carefully.

Cleaning

Warning

- For safety reasons, turn off the power switch and unplug the monitor before you clean it.
- If you drop any materials or liquids such as water into the monitor when cleaning, unplug the power cable immediately and contact your dealer.

Caution

- To protect the LCD panel or touch glass surface, do not scratch or rub the screen with a hard object
- Never use any of the following strong solvents. These will damage the screen or cabinet: Thinner, benzine, abrasive cleaner, spray-type cleaner, wax, acid or alkaline solvent.
- Do not spray liquid directly on the monitor.
- Cabinet: Stains can be removed with a cloth lightly moistened with a mild detergent solvent. Then wipe the cabinet with a soft dry cloth.
- Screen surface: Periodic cleaning with a soft dry cloth is recommended. Don't use tissue paper etc. because these will damage the screen surface.

Electrical safety

Warning

- Do not use a damaged power cord or AC/DC power adapter, or a loose power socket.
- Do not use multiple products with a single power socket.
- Do not touch the power plug with wet hands.
- Insert the power plug all the way in so it is not loose.
- Connect the AC/DC power adapter to a grounded power socket.
- Do not bend or pull the power cord with force.
- Do not leave the power cord or AC/DC power adapter under a heavy object.
- Do not place the product, power cord or AC/DC power adapter near heat sources.

Caution

- Do not disconnect the power cord while the product is used.
- Only use the AC/DC power adapter and power cord provided with your product.
- Keep the power socket where the power cord is connected unobstructed to cut off power immediately if an issue occurs.
- Hold the plug when disconnecting the power cord from the power socket.

Installation**Warning**

- Do not place candles, insect repellents or cigarettes on top of the product.
- Do not install the product near heat sources.
- Do not install the product in poorly ventilated spaces such as a bookcase or closet.
- Keep the plastic packaging out of the reach of children. Children may suffocate.
- Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.). The product may fall and become damaged and/or cause an injury. Using the product in an area with excess vibration may damage the product or cause a fire.
- Do not install the product in a vehicle or a place exposed to dust, moisture (water drips, etc.), oil, or smoke.
- Do not expose the product to direct sunlight, heat, or a hot object such as a stove. The product lifespan may be reduced or a fire may result.
- Do not install the product within the reach of young children. The product may fall and injure children.
- Edible oil, such as soya bean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.

Caution

- Do not drop the product while moving.
- Do not set down the product on its front.
- When installing the product on a cabinet or shelf, make sure that the bottom edge of the front of the product is not protruding. The product may fall and become damaged and/or cause an injury. Install the product only on cabinets or shelves of the right size.
- Set down the product gently to prevent product failure or personal injury.
- Installing the product in an unusual place (a place exposed to a lot of fine dust, chemical substances, extreme temperatures or a significant presence of moisture, or a place where the product will operate continuously for an extended period of time) may seriously affect its performance. Be sure to consult your dealer if you want to install the product at such a place.
- Before assembling the product, place the product down on a flat and stable surface so that the screen is facing downwards.

Operation

Warning

- To move the product, first disconnect all the cables from it, including the power cable.
- If the product generates abnormal sounds, a burning smell or smoke, disconnect the power cord immediately and contact your dealer.
- Do not let children hang from the product or climb on top of it. Children may become injured or seriously harmed.
- If the product is dropped or the outer case is damaged, turn off the power and disconnect the power cord. Then contact your dealer. Continued use can result in a fire or electric shock.
- Do not leave heavy objects or items that children like (toys, sweets, etc.) on top of the product. The product or heavy objects may fall as children try to reach for the toys or sweets resulting in a serious injury.
- Do not drop objects on the product or apply impact.
- If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately.
- Do not use or keep combustible spray or an inflammable substance near the product.
- Ensure the vents are not blocked. An increased internal temperature may cause a fire.
- Do not insert metallic objects (chopsticks, coins, hairpins, etc.) or objects that burn easily (paper, matches, etc.) into the product (via the vent or input/output ports, etc.).
- Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact your dealer.
- Do not place objects containing liquid (vases, pots, bottles, etc.) or metallic objects on top of the product. Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact your dealer.

Caution

- Leaving the screen fixed on a stationary image for an extended period of time may cause after-image burn-in or defective pixels. Set the screen to power-saving mode or moving-picture screen saver when not using the product for an extended period of time.
- Disconnect the power cord from the power socket if you do not plan on using the product for an extended period of time (vacation, etc.).
- Dust accumulation combined with heat can cause a fire, electric shock or electric leakage.
- Use the product at the recommended resolution and frequency. Your eyesight may deteriorate.
- Do not put AC/DC adapters together.
- Remove the plastic bag from the AC/DC adapter before you use it.
- Do not let water enter the AC/DC adapter device or get the device wet. An electric shock or fire may result. Avoid using the product outdoors where it can be exposed to rain or snow. Be careful not to get the AC/DC adapter wet when you wash the floor.
- Do not put the AC/DC adapter near to any heating apparatus. Otherwise, a fire may result.

- If you place the AC/DC power adapter hanging with the cord input facing upwards, water or other foreign substances could enter the Adapter and cause the Adapter to malfunction. Make sure to rest the AC/DC power adapter flat on a table or the floor.
- Do not hold the product upside-down or move it by holding the stand. The product may fall and become damaged or cause an injury.
- Looking at the screen too close for an extended period of time can deteriorate your eyesight.
- Do not use humidifiers or stoves around the product.
- Rest your eyes for more than 5 minutes or look at distance objects for every 1 hour of product use.
- Store small accessories out of the reach of children.

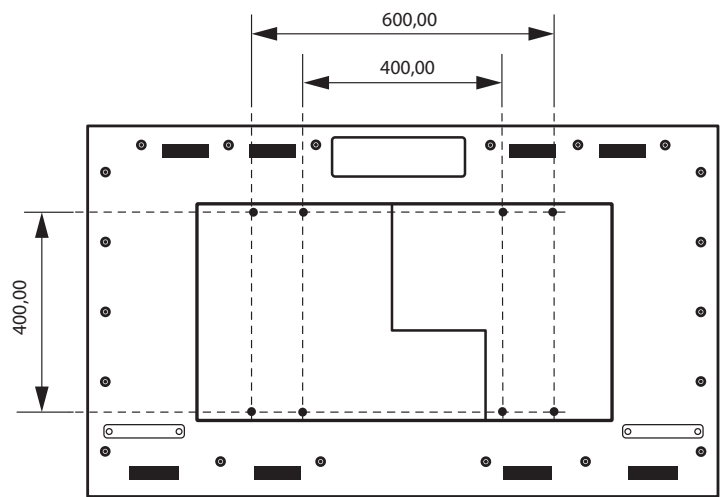
Installation

VESA Wall Mount Specifications

Warning: Eye-bolts on the back side of the monitor can be used as a short term support to lift the monitor until it is fixed at its end position with a suited VESA mount. Eye-bolts are not suited for a permanent installation!

Install your wall mount on a solid wall perpendicular to the floor. If you install the product on a slanted wall, it may fall and result in severe personal injury.

- Do not use screws that are longer than shown in the table below. Screws that are too long may cause damage to the inside of the product.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Your dealer is not liable for these kinds of accidents.
- Your dealer or the manufacturer is not liable for product damage or personal injury when a non-VESA or non-specified wall-mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the product at more than a 15 degree tilt.
- Standard dimensions for wall mount kits are shown in the table below.
- **Make sure that your VESA mount is suited for the weight of the monitor.**



Monitor	VESA screw hole specification A x B in millimetres	Standard screw	Quantity
PSIV-430/550	400 x 400 / 400 x 600	M6, maximum length 12 mm	4
PSIV-650	400 x 400	M6, maximum length 12 mm	4
	400 x 600	M8, maximum length 12 mm	4

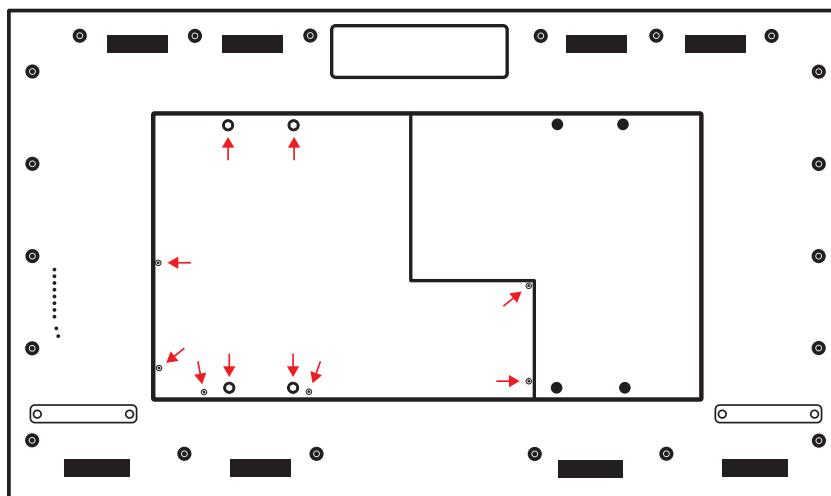
Connecting to Power

All connectors of the monitor and the power switch are hidden behind a cover on the back side. Remove the cover to connect a power cable or a data cable like DVI or HDMI.

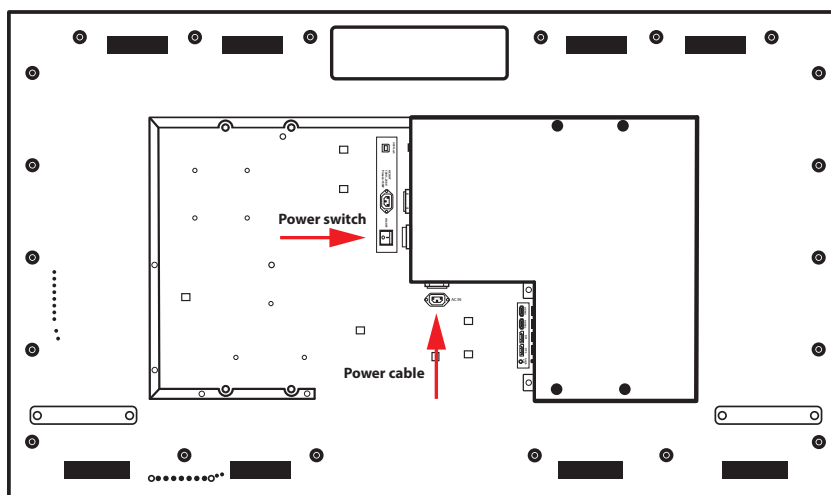
Following tools are required to remove the cover:

- Screw driver Torx 10
- Allen key 4 mm

To remove the back side cover loosen all screws marked with a red arrow as shown in the picture below.



Connect a power cable and switch the display on .

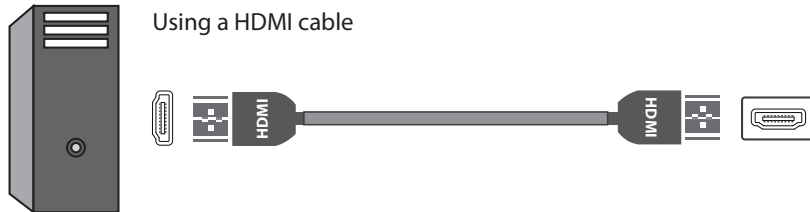


Reinstall the backside cover. To switch the monitor on and off use the OSD power button.

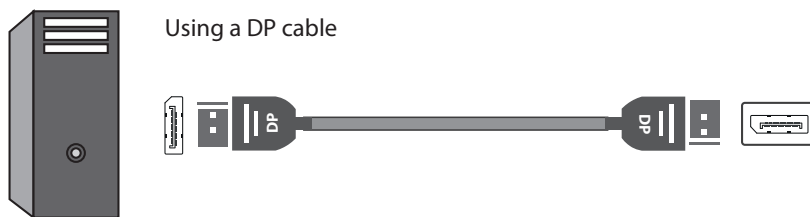
Connecting a PC

Select your preferred video connection type.

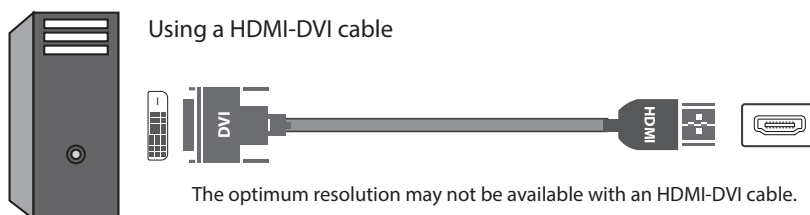
Connection using a HDMI cable



Connection using a DP cable

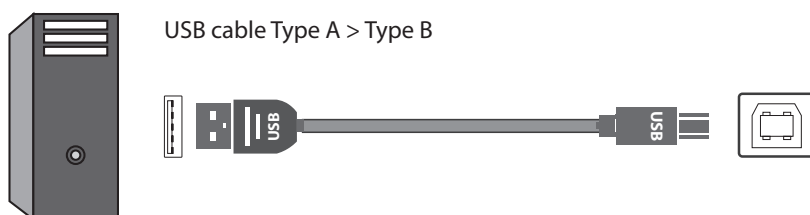


Connection using a HDMI - DVI cable



Connecting USB cable for touch (option)

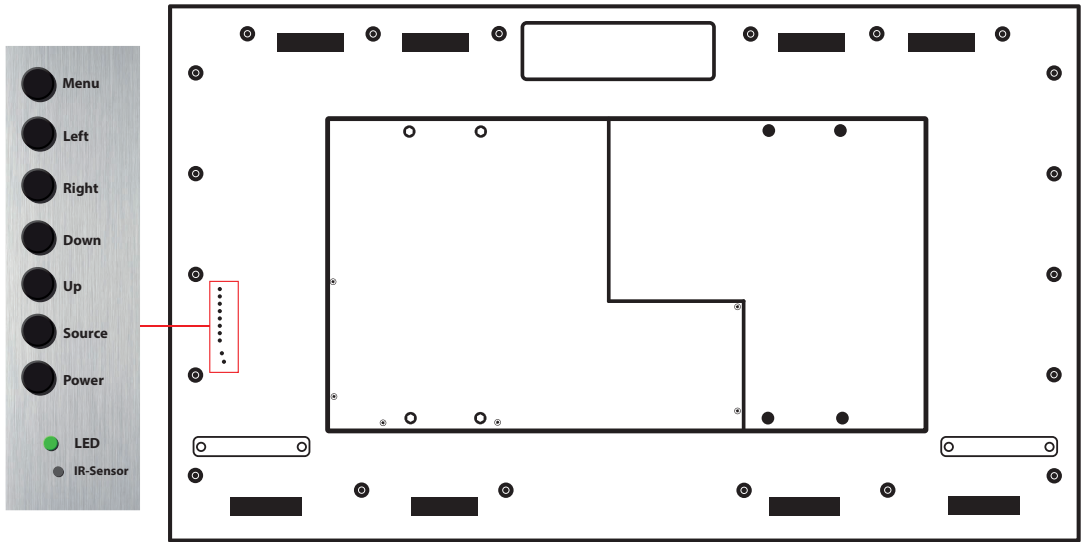
If a PCAP touch is installed, a USB cable is required to connect the touch to the PC.



OSD Menu

Control Panel

The colour and shape of parts may differ from what is shown.

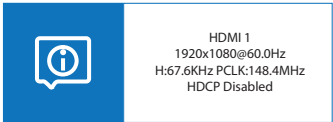


Part	Description
LED	This LED is the power and signal status indicator. LED off: Monitor is switched off LED colour amber: Monitor is switched on, no video signal LED colour green: Monitor switched on, video signal detected
Power	Switch monitor on / off
Source	Show data input connector
Up	Move cursor up / get status information
Down	Move cursor down
Right	Move cursor right, increase value Audio on / off
Left	Move cursor left, decrease value Audio volume up /down
Menu	Open OSD menu / select item

The OSD (On Screen Display) provides certain functions for display configuration. OSD is controlled by seven push-buttons. A LED indicates the display status.

Operating the monitor

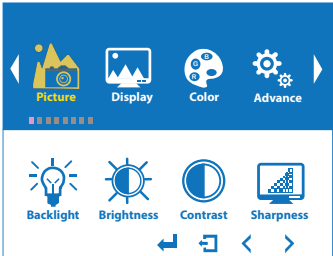
After power on, information about the detected video signal is displayed.



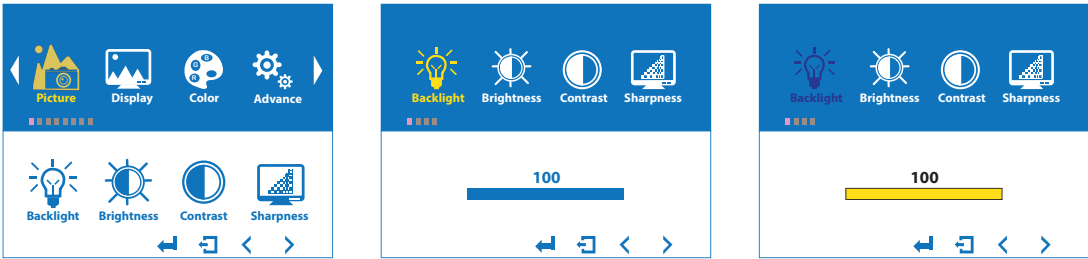
If no video signal is detected, the display is going into Power Saving mode.



Press the MENU button to open the **On Screen Display** feature. Then use the RIGHT, LEFT, UP and DOWN buttons to select and make the desired adjustments.

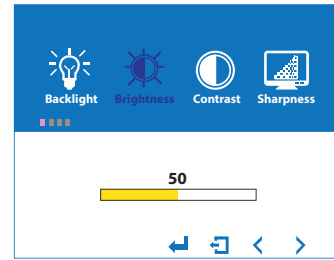
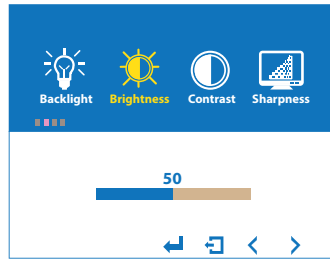
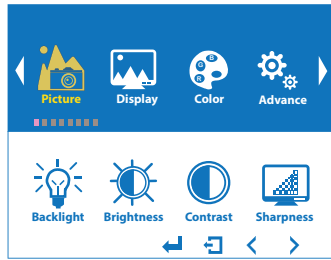


Backlight



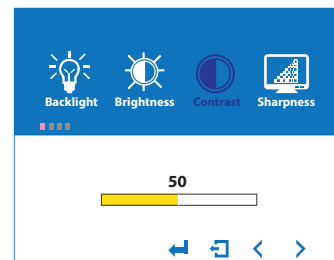
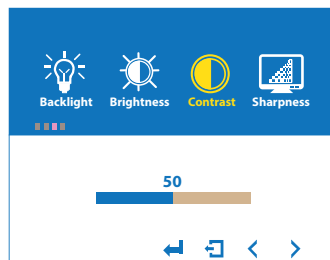
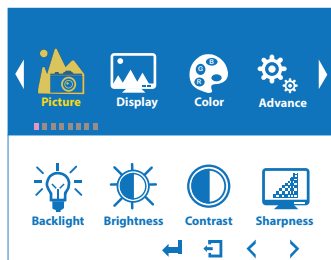
Select path	Problem / Option	Button
Picture > Backlight	Too low Too high	RIGHT LEFT

Brightness



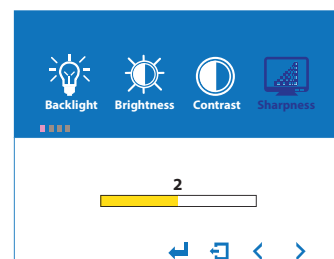
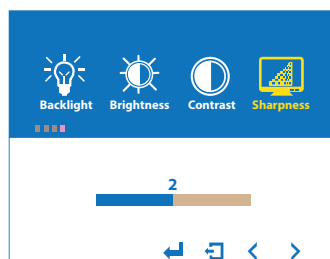
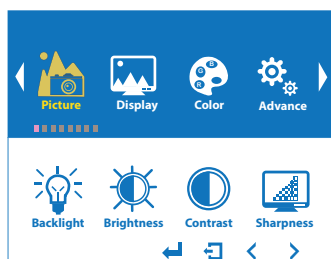
Select path	Problem / Option	Button
Picture > Brightness	Too dark Too bright	RIGHT LEFT

Contrast



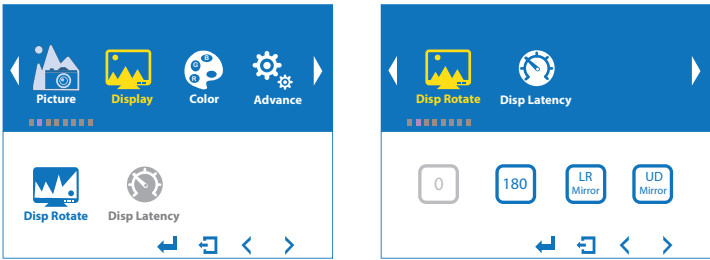
Select path	Problem / Option	Button
Picture > Contrast	Too dull Too intense	RIGHT LEFT

Sharpness



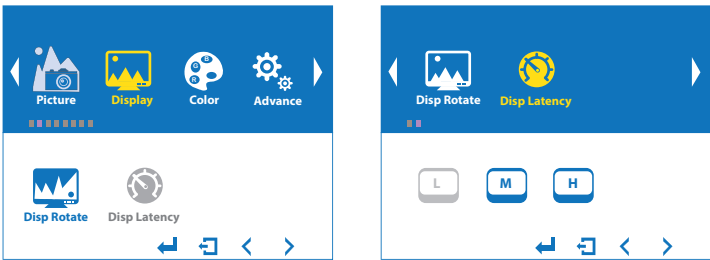
Select path	Problem / Option	Button
Picture > Sharpness	Too weak Too strong	RIGHT LEFT

Rotation



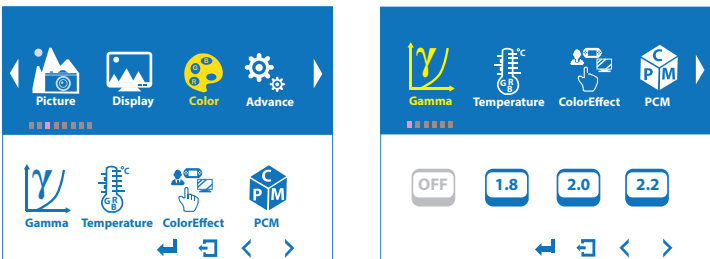
Select path	Problem / Option	Button
Display > Disp Rotate	0 180 Left/Right Mirror Up/Down Mirror	RIGHT LEFT

Latency



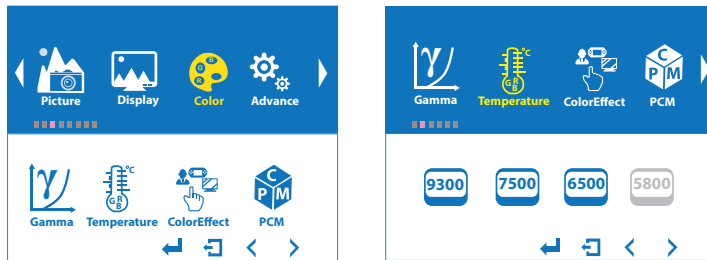
Select path	Problem / Option	Button
Display > Disp Latency	L (Low) M (Medium) H (High)	RIGHT LEFT

Gamma



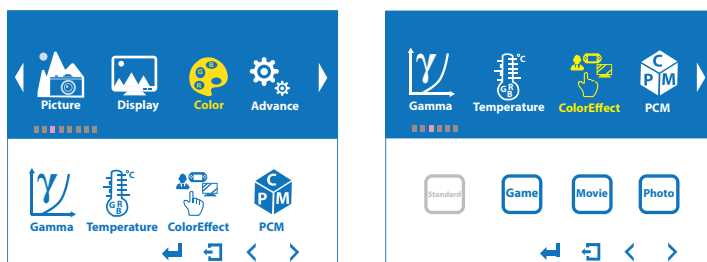
Select path	Problem / Option	Button
Color > Gamma	OFF 1.8, 2.0, 2.2, 2.4	RIGHT LEFT

Color temperature



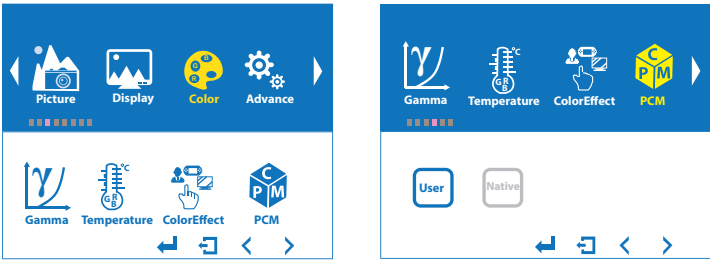
Select path	Problem / Option	Button
Color > Temperature	9300, 7500, 6500, 5800, LBL T	RIGHT LEFT
Color > Temperature > User > R Color > Temperature > User > G Color > Temperature > User > B	Too weak Too strong	RIGHT LEFT

Color effect



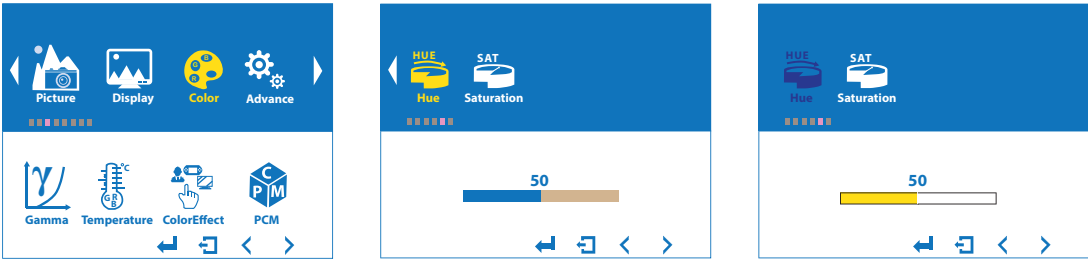
Select path	Problem / Option	Button
Color > PCM	Standard, Game, Movie, Photo, Vivid	RIGHT LEFT
Color > ColorEffect > User > Hue > R Color > ColorEffect > User > Hue > Y Color > ColorEffect > User > Hue > G Color > ColorEffect > User > Hue > C Color > ColorEffect > User > Sat > R Color > ColorEffect > User > Sat > Y Color > ColorEffect > User > Sat > G Color > ColorEffect > User > Sat > C	Too weak Too strong	RIGHT LEFT

PCM



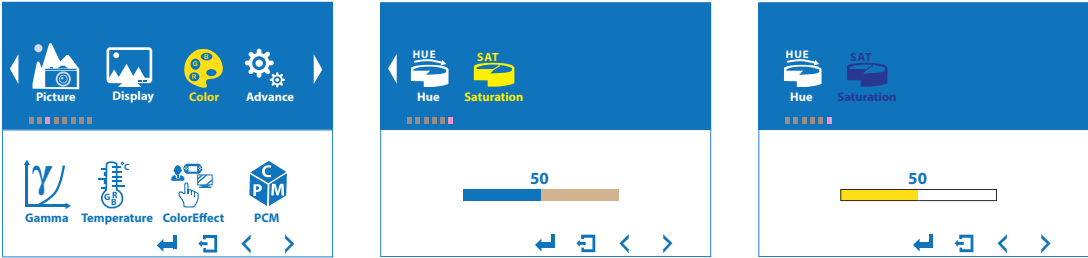
Select path	Problem / Option	Button
Color > ColorEffect	User Native	RIGHT LEFT

Hue



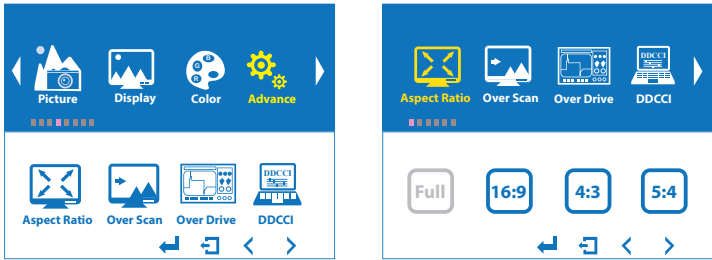
Select path	Problem / Option	Button
Color > Hue	Too weak Too strong	RIGHT LEFT

Saturation



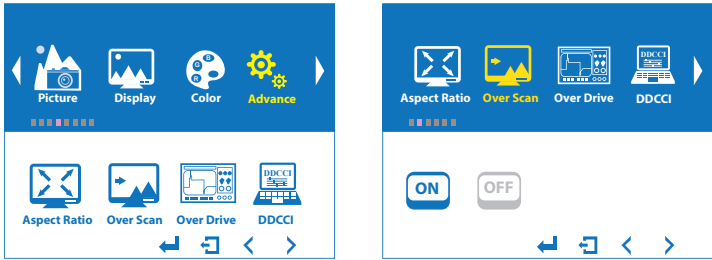
Select path	Problem / Option	Button
Color > Saturation	Too weak Too strong	RIGHT LEFT

Aspect Ratio



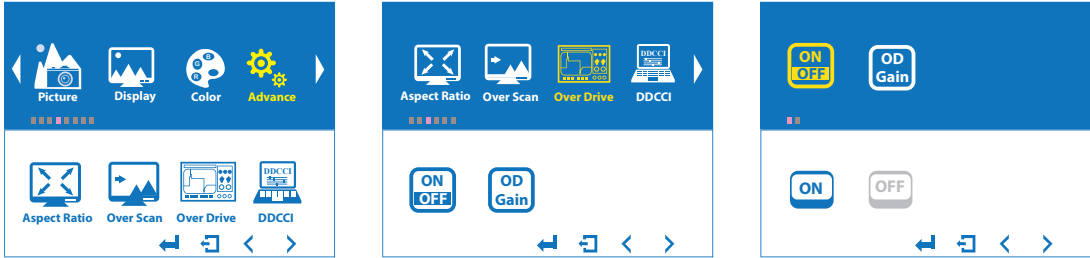
Select path	Problem / Option	Button
Advance > Aspect Ratio	Full, 16:9, 4:3, 5:4, 1:1	RIGHT LEFT

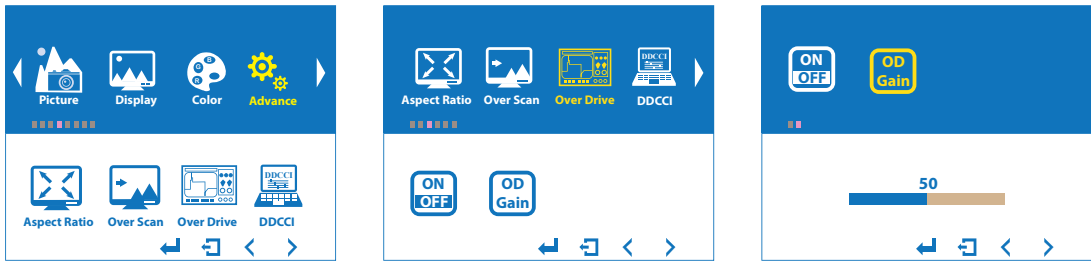
Over Scan



Select path	Problem / Option	Button
Advance > Over Scan	ON, OFF	RIGHT LEFT

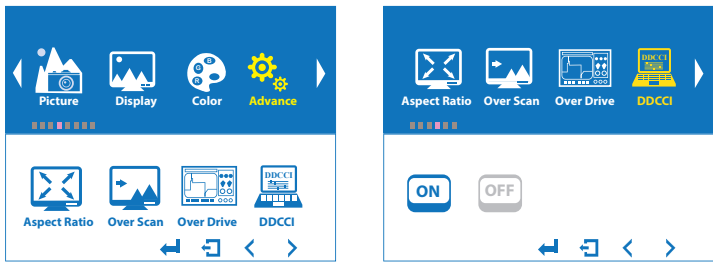
Over Drive





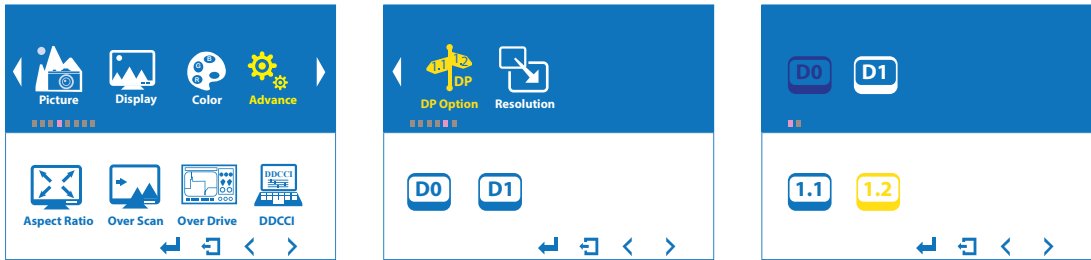
Select path	Problem / Option	Button
Advance > Over Drive	Over Drive ON, OFF	RIGHT LEFT
Advance > Over Drive	Gain to weak Gain to strong	RIGHT LEFT

DDCCI



Select path	Problem / Option	Button
Advance > Over Scan	ON, OFF	RIGHT LEFT

DP Option



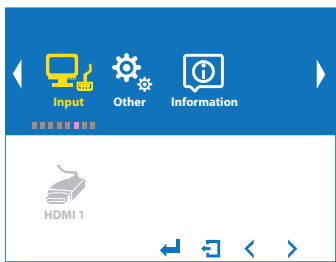
Select path	Problem / Option	Button
Advance > DP Option	D0: 1.1, 1.2 D1: 1.1, 1.2	RIGHT LEFT

Resolution



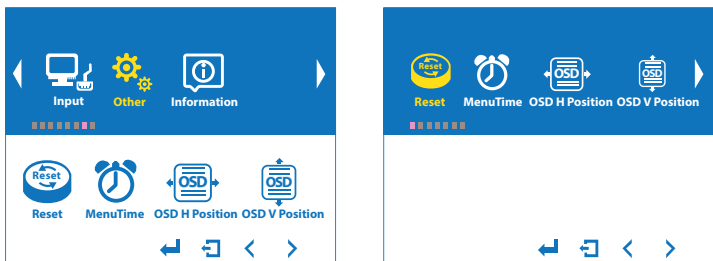
Select path	Problem / Option	Button
Advance > Resolution	DP1: 1080p, 2560x1440, 4K2K@60Hz DP2: 1080p, 2560x1440, 4K2K@60Hz HDMI 1: 1080p, 2560x1440, 4K2K@60Hz HDMI 2: 1080p, 2560x1440, 4K2K@60Hz	RIGHT LEFT

Input



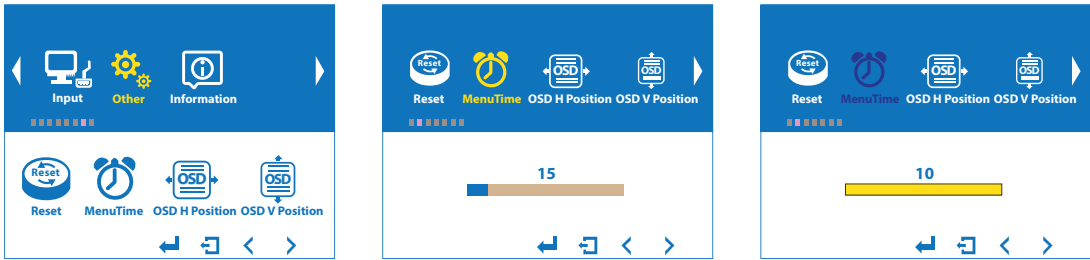
Select path	Problem / Option	Button
Input	Current Input Signal	

Reset controller



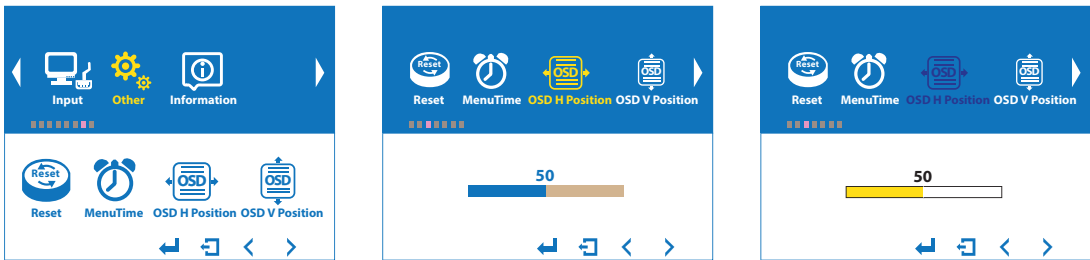
Select path	Problem / Option	Button
Other > Reset	Reset	Menu

Menu time



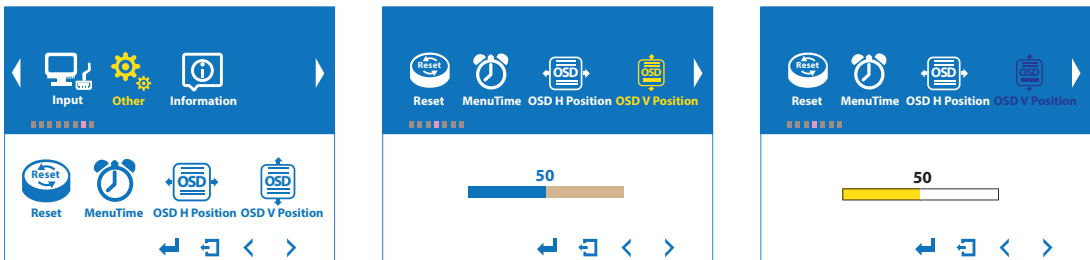
Select path	Problem / Option	Button
Other > MenuTime	Longer: Shorter:	RIGHT LEFT

Horizontal position



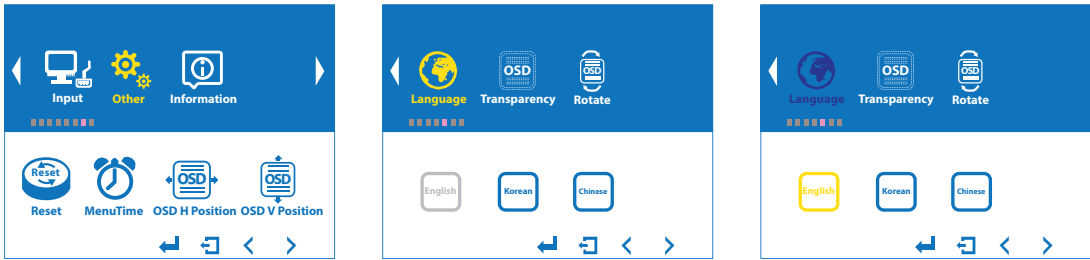
Select path	Problem / Option	Button
Other > OSD HPosition	Right: Left:	RIGHT LEFT

Vertical position



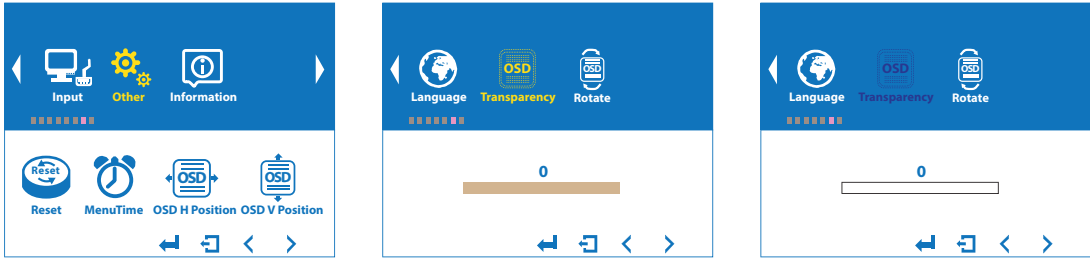
Select path	Problem / Option	Button
Other > OSDVPosition	Down: Up:	RIGHT LEFT

Language



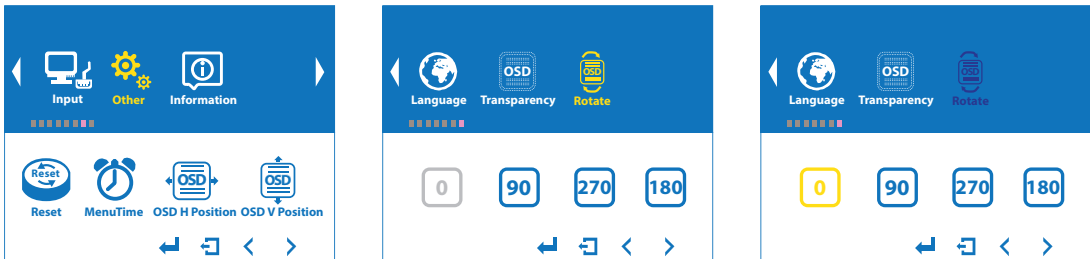
Select path	Problem / Option	Button
Other > Language	English: Korean: Chinese:	Menu

Transparency



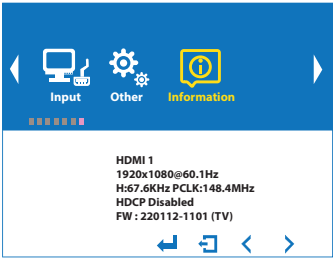
Select path	Problem / Option	Button
Other > Transparency	Increase: Decrease:	RIGHT LEFT

Rotate



Select path	Problem / Option	Button
Other > Rotation	0: 90: 270: 180:	Menu

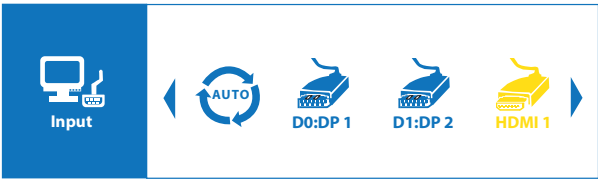
Information



Select path	Problem / Option	Button
Information		

Input selector

When the OSD menu is inactive, press the SOURCE button to open the input select menu. Then use the RIGHT and LEFT buttons to select your source.



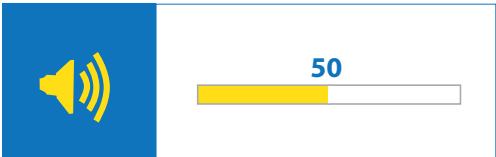
Audio off

When the OSD menu is inactive, press the LEFT button to switch audio off.



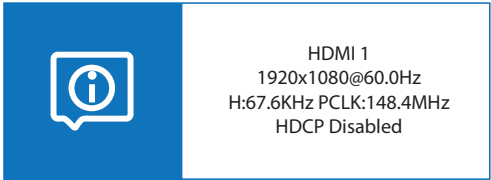
Audio on

When the OSD menu is inactive, press the RIGHT button to switch audio on. Use RIGHT and LEFT buttons to adjust the volume.



Signal status

When the OSD menu is inactive, press the UP button to display current signal status.



Specifications

Display

Parameter	Unit	PSIV430	PSIV550	PSIV650
Screen Technology		Active Matrix	Active Matrix	Active Matrix
Screen Diagonal	[mm]	1079.5 (42.5")	1386.84 (54.6")	1638.3 (64.5")
Active Area	[mm]	941.184 (H) x 529.416(V)	1209.6 (H) x 680.4 (V)	1428.48 (H) x 803.52 (V)
Display Colors	Colors	10 bit	8 bit + FRC (1.07 billion)	8 bit + FRC (1.07 billion)
Pixels	Pixel	3840 H x 2160 V	3840 H x 2160 V	3840 H x 2160 V
Pixel Arrangement		R:G:B Vertical Stripe	R:G:B Vertical Stripe	R:G:B Vertical Stripe
Display Operation Mode		Normally Black	Normally Black	Normally Black
Surface Treatment		anti-Glare, 3H, Haze = 44%	anti-Glare, 3H, Haze = 44%	anti-Glare, 3H, Haze = 28%
Display Orientation		Portrait / Landscape	Portrait / Landscape	Portrait / Landscape
Operating time		24/7	24/7	24/7
LED Life	hours	80.000 (Typ.) ¹	60.000 (Typ.) ¹	70.000 (Typ.) ¹
Frame Rate	Hz	60	60	60
White Luminance Center	[cd/m ²]	700 (Typ.)	700 (Typ.)	700 (Typ.)
Contrast Ratio		3000 (Typ.)	4000 (Typ.)	4000 (Typ.)
Response Time (G to G)	[ms]	8	8.5	8
Viewing Angle	[degree]	178 H / 178 V	178 H / 178 V	178 H / 178 V
Aspect Ratio		16 : 9	16 : 9	16 : 9

HDMI Signal Input

2x (HDMI 2.0, 4K2K@60Hz, DHCP2.2 Support)

Pin No.	SYMBOL	Pin No.	SYMBOL	Pin No.	SYMBOL
1	HDMI_DATA2+	8	GND	15	HDMI_SCL
2	GND	9	HDMI_DATA0-	16	HDMI_SDA
3	HDMI_DATA2-	10	HDMI_CLK+	17	GND
4	HDMI_DATA1+	11	HDMI_DET	18	HDMI_5V
5	GND	12	HDMI_CLK-	19	HDMI_HDP
6	HDMI_DATA1-	13	NC	20	
7	HDMI_DATA0+	14	NC	21	GND

Display Port Signal Input

2x (4K2K@60Hz)

Pin No.	SYMBOL	Pin No.	SYMBOL	Pin No.	SYMBOL
1	LANE3-	8	GND	15	AUX_CHP
2	GND	9	LANE1+	16	DP DET
3	LANE3+	10	LANE0-	17	AUX_CHN
4	LANE2-	11	GND	18	HPD
5	GND	12	LANE0+	19	RETURN
6	LANE2+	13	GND	20	DP_5V
7	LANE1-	14	GND	-	-

True-flat PCAP touch (option)

Parameter	Unit	Value
Detection method		Projected capacitive
Input method		Finger and gloved Finger
Number of simultaneous touches		10
Glass thickness	[mm]	4
Glass standard		anti-glare
Interface		HID
OS with multitouch		Windows 11,10,8,7, Ubuntu 12.04, Linux, Android, Chrome OS
Data connectivity		USB 2.0
Touch accuracy	[%]	0.1 of sensor diagonal
Bezel color		Black

Environmental ratings

Parameter	Symbol	Unit	Min	Max
Operating Temperature	T _{OP}	°C	0	40
Storage Temperature	T _{ST}	°C	-20	60
Operating Ambient Humidity (non condensing)	H _{OP}	%RH	10	90
Storage Humidity (non condensing)	H _{ST}	%RH	10	90

Electrical ratings

Parameter	Symbol	Unit	PSIV430	PSIV550	PSIV650
Input Voltage	VAC	V	100-240		
Power Consumption (without PC)	PWR	W	130 (typ.)	140 (typ.)	250 (typ.)

Housing, mounting

Parameter	Unit	Value
Housing		Sheet Steel,
Surface		Hot-galvanized
VESA Mount Monitor	[mm]	400 x 400, 400 x 600
VESA Mount PC	[mm]	100 x 100

Dimensions

Please refer to the datasheet or to the mechanical drawings for further information about options and dimensions.

Approvals

CE certification

CE: Class B

PortSignum

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