AOC

LCD Monitor User Manual

AG353UCG   LED backlight

HƆMI®

www.aoc.com

Safety

National Conventions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:

NOTE: A NOTE indicates important information that helps you make better use of your computer system.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates the potential for bodily harm and tells you how to avoid the problem.Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

Power

⚠ The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.

⚠ The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.

⚠ Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.

⚠ Do not overload power strips and extension cords. Overloading can result in fire or electric shock.

⚠ To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 5A.

⚠ The wall socket shall be installed near the equipment and shall be easily accessible.

⚠ For use only with the attached power adapter
Manufacturers: FSP TECHNOLOGY INC.
Model: FSP330-AJAN3 (output:19.5Vdc,16.9A)(optional)
Model: FSP230-AJAN3 (output:19.5Vdc,11.79A)(optional)

Installation

⚠ Do not place the monitor on an unstable cart, stand, tripod, bracket, or table. If the monitor falls, it can injure a person and cause serious damage to this product. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with this product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. A product and cart combination should be moved with care.

⚠ Never push any object into the slot on the monitor cabinet. It could damage circuit parts causing a fire or electric shock. Never spill liquids on the monitor.

⚠ Do not place the front of the product on the floor.

⚠ If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

⚠ Leave some space around the monitor as shown below. Otherwise, air-circulation may be inadequate hence overheating may cause a fire or damage to the monitor.

See below the recommended ventilation areas around the monitor when the monitor is installed on the wall or on the stand:

Installed with stand

12 inches
30cm

4 inches
10cm

4 inches
10cm

4 inches
10cm

Leave at lease this space around the set
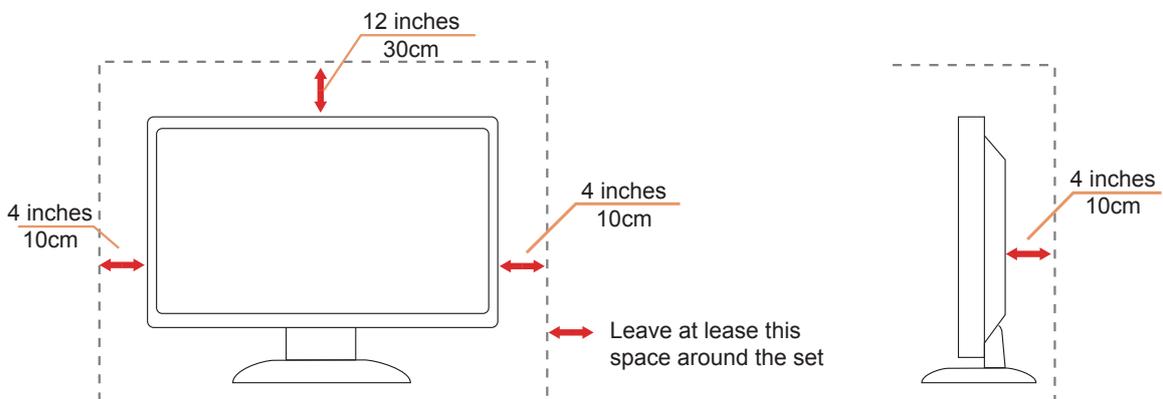
Cleaning

⚠️ Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

⚠️ When cleaning, make sure no detergent is leaked into the product. The cleaning cloth should not be too rough as it will scratch the screen surface.

⚠️ Please disconnect the power cord before cleaning the product.

Other

⚠ If the product is emitting a strange smell, sound or smoke, disconnect the power plug IMMEDIATELY and contact a Service Center.

⚠ Make sure that the ventilating openings are not blocked by a table or curtain.

⚠ Do not engage the LCD monitor in severe vibration or high impact conditions during operation.

⚠ Do not knock or drop the monitor during operation or transportation.

Setup

Contents in Box
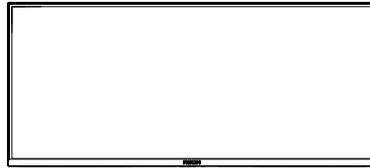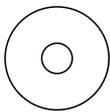
CD Manual	Warranty card	Stand	Screws	Base	Wire clip
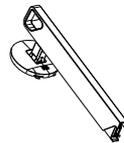
Power Cable	Adapter	DP Cable	HDMI Cable	USB Cable	Micphone Cable

✱Not all signal cables (DP, HDMI, USB and Micphone cables) will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

Setup Stand & Base

Please setup or remove the base following the steps as below.

Setup:
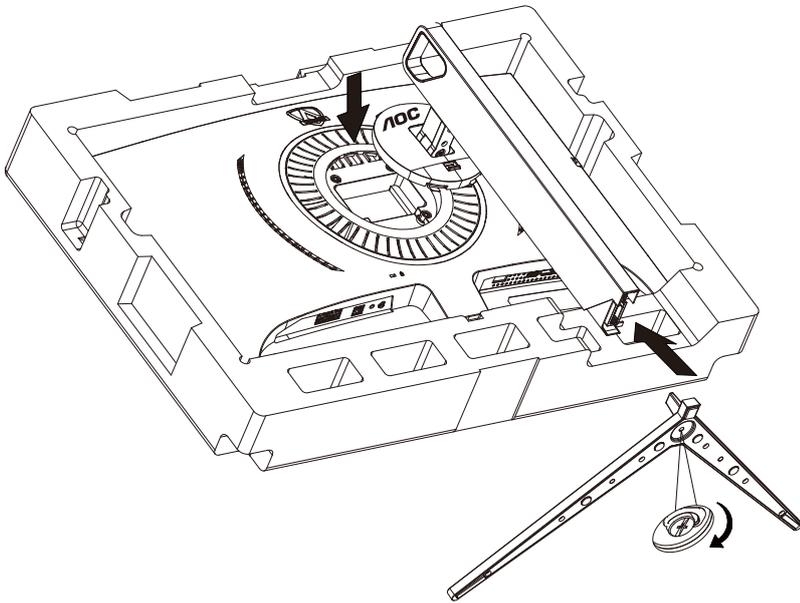
Remove:
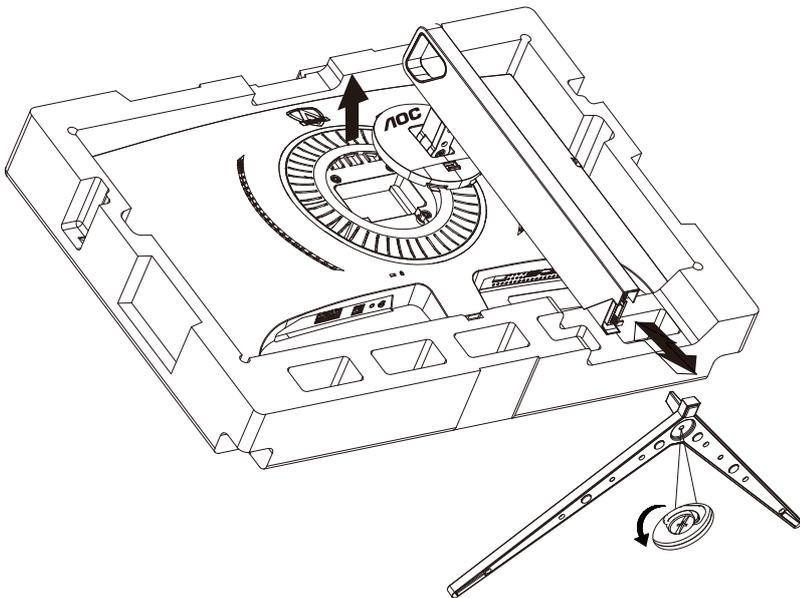
Adjusting Viewing Angle

For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.

Hold the stand so you will not topple the monitor when you change the monitor's angle.

You are able to adjust the monitor as below:

-5° ~ 23°

30°   30°

110mm
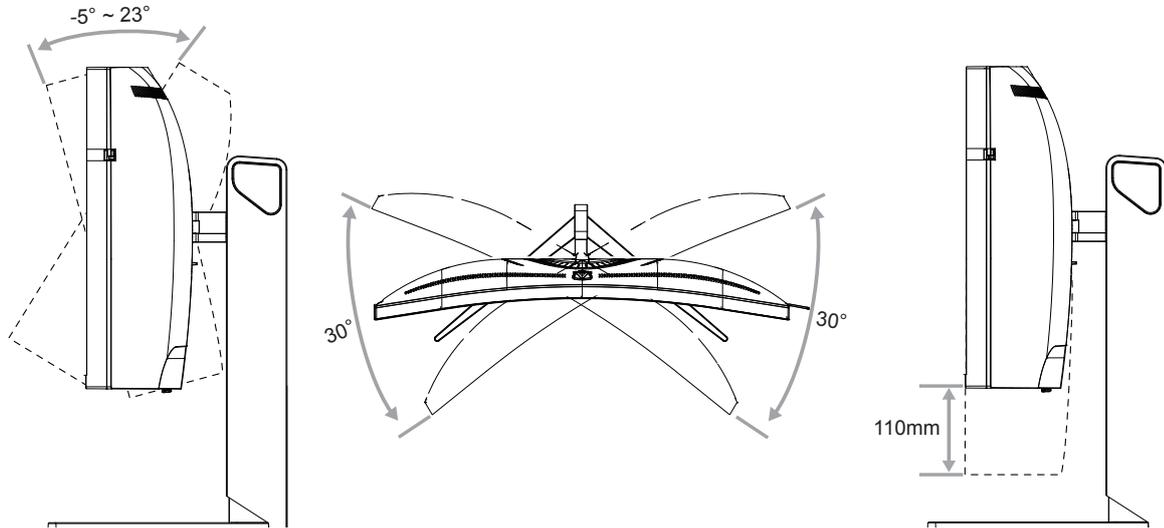
📝 **NOTE:**

Do not adjust the viewing angle over 23 degrees in order to avoid damage.

Connecting the Monitor

Cable Connections In Back of Monitor and Computer:
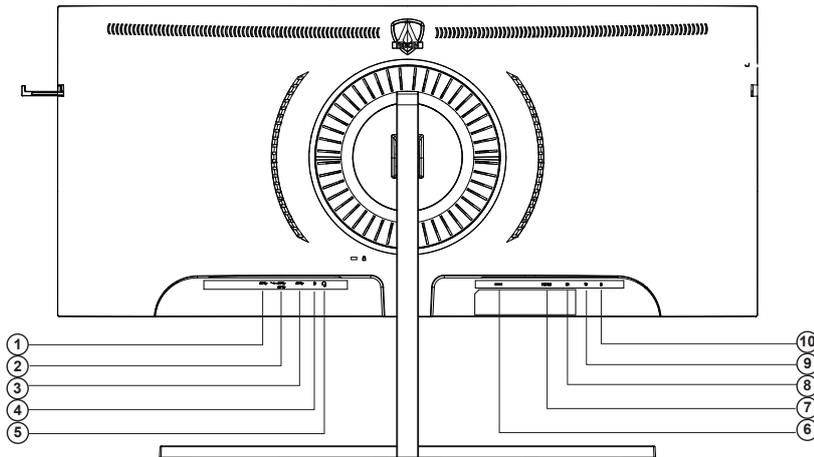
1. USB3.0 upstream
2. USB3.0 downstream + fast charging (BC1.2)
3. USB3.0 downstream
4. Microphone in
5. Earphone (Combined with Microphone)
6. AC in
7. HDMI
8. DP
9. Mini USB
10. Microphone out (Connect to PC)

Connect to PC

1. Connect the power cord to the back of the display firmly.
2. Turn off your computer and unplug its power cable.
3. Connect the display signal cable to the video connector on the back of your computer.
4. Plug the power cord of your computer and your display into a nearby outlet.
5. Turn on your computer and display.

If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

To protect equipment, always turn off the PC and LCD monitor before connecting.

G-SYNC function

Compatible Graphics Card: GeForece GTX 650 Ti Boost or higher (for a list of compatible graphics cards, please visit www.nividia.com/G-SYNC)
Driver: GeForece 331.58 or higer OS: Windows 7/8/8.1

Adjusting

Hotkeys
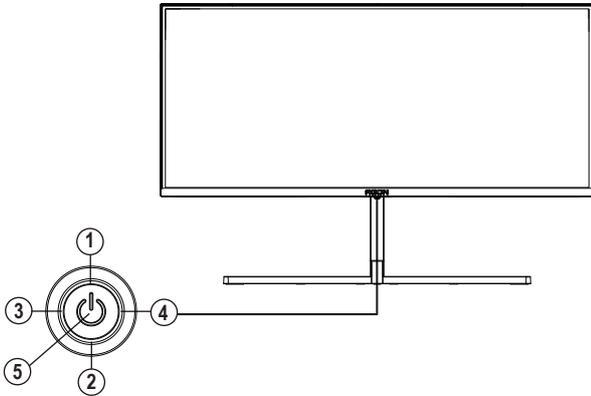
1	Source/Up
2	Dial Point/Down
3	Game Mode/Left
4	Light FX/Right
5	Power/Menu/Enter

Power/Menu/Enter

Press the Power button to turn on the monitor.

When there is no OSD, Press to display the OSD or confirm the selection. Press about 2 seconds to turn off the monitor.

Dial Point/Down

When there is no OSD, press Dial Point button to show / hide Dial Point.

Game Mode/Left

When there is no OSD, press "Left" key to open game mode function, then press "Left" or "Right" key to select game mode (FPS, RTS, Racing, Gamer 1, Gamer 2 or Gamer 3) basing on the different game types.

Light FX/Right

When there is no OSD, press "Right" key to active Light FX function.

Source/Up

When the OSD is closed, press Source/Auto/Exit button will be Source hot key function.

OSD Key Guide (Menu)

Enter : Use Enter key to enter the next OSD level
Move : Use Left / Up / Down key to move OSD selection
Exit : Use Right key to exit OSD
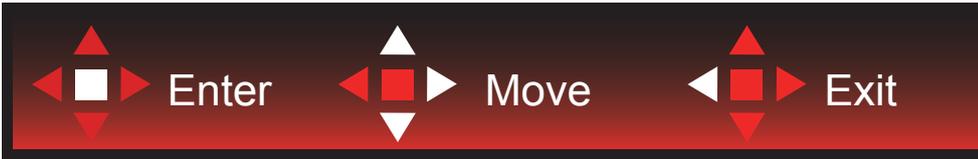
Enter : Use Enter key to enter the next OSD level
Move : Use Right / Up / Down key to move OSD selection
Exit : Use Left key to exit OSD
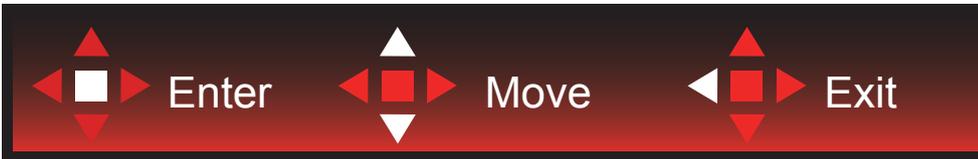
Enter : Use Enter key to enter the next OSD level
Move : Use Up / Down key to move OSD selection
Exit : Use Left key to exit OSD
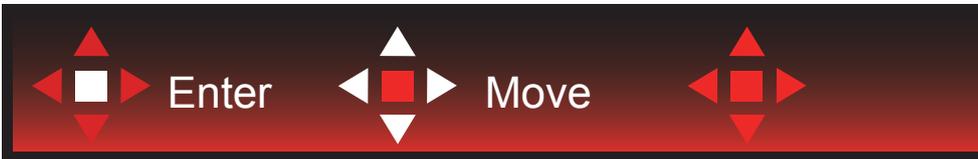
Move : Use Left / Right / Up / Down Key to move OSD selection

Exit : Use Left key to exit OSD to previous OSD level
Enter : Use Right key to enter next OSD level
Select : Use Up / Down key to move OSD selection

Enter : Use Enter key to apply the OSD setting and back to previous OSD level
Select : Use Down key to adjust OSD setting

Select : Use Up / Down key to adjust OSD setting

Enter : Use Enter key to exit OSD to previous OSD level
Select : Use Left / Right key to adjust OSD setting

OSD Setting

Basic and simple instruction on the control keys.
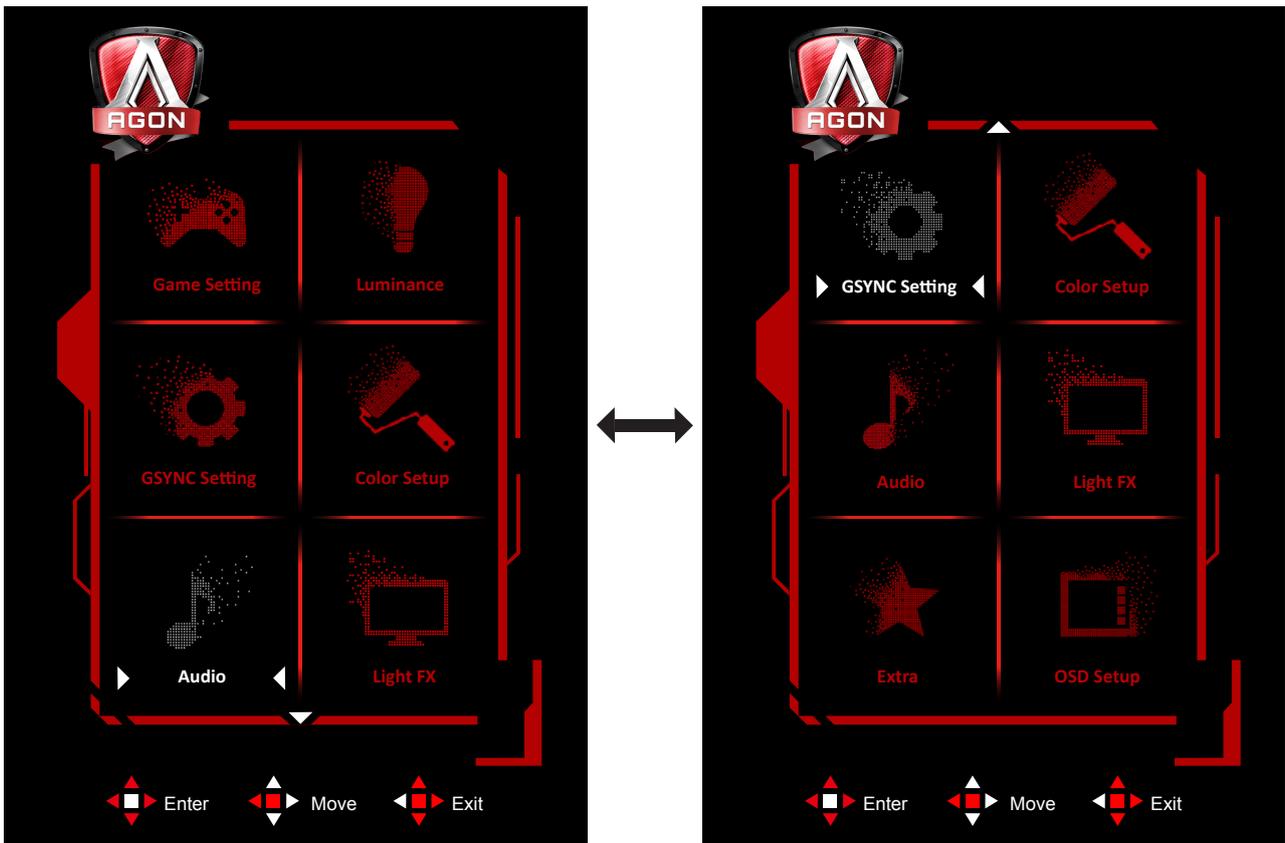
1). Press the MENU-button to activate the OSD window.

2). Follow Key Guide to move or select (adjust) OSD settings

3). OSD Lock/Unlock Function: To lock or unlock the OSD, press and hold the Down–button for 10s while OSD function is not active.

Notes:

If the product has only one signal input, the item of "Input Select" is disable to adjust.

Game Setting

		FPS	For playing FPS (first Person Shooters) games. Improves dark theme black level details.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
		Racing	For playing Racing games, Provides fastest response time and high color saturation.
	Game Mode	Gamer 1	User's preference settings saved as Gamer 1.
		Gamer 2	User's preference settings saved as Gamer 2.
		Gamer 3	User's preference settings saved as Gamer 3.
		Off	No optimization by Smart image game
	Shadow Control	0-3	Shadow Control Default is 0, then end-user can adjust from 0 to 3 or 0 to increase contrast for clear picture. 1. If picture is too dark to be saw the detail clearly, adjusting from 0 to 3 for clear picture.. 2. If picture is too white to be saw the detail clearly, adjusting from 3 to 0 for clear picture
	Dial Point	On/Off	The"Dial Point"function places an aiming indicator in the center of screen for helping gamers to play First Person Shooter (FPS) games with an accurate and precise aiming.
	Quick Switch LED	On/Off	Disable or Enable QuickSwitch LED
	Overdrive	Weak/Medium/ Strong/Off	Adjust the response time.
	Frame Counter	Off/Right-Up/Right-Down/Left-Down/ Left-Up	Display V frequency on the corner selected （Frame counter feature only works with NVidia graphic card.）

Luminance
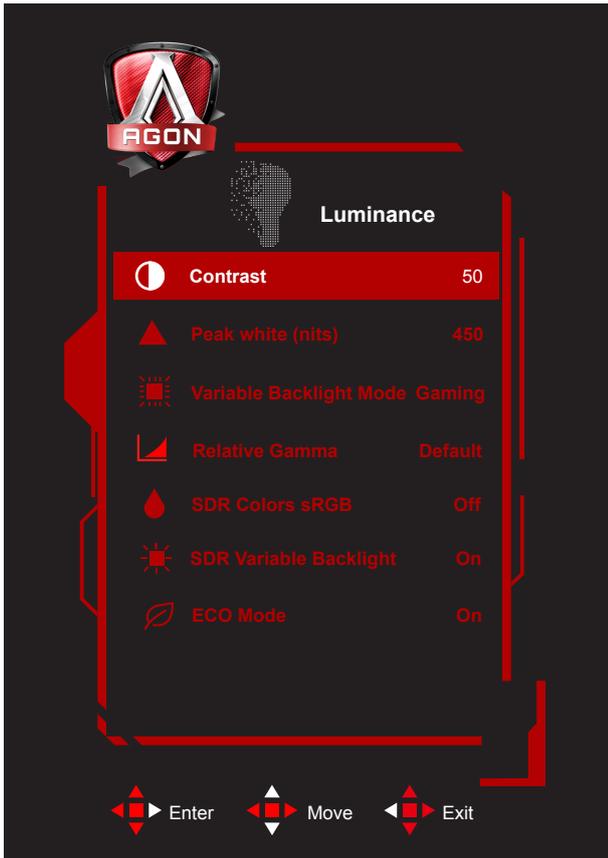
	Contrast	0-100	Contrast from Digital-register.
	Peak white (nits)	20-500	Peak white setting.(Only for SDR)
	Ref. white (nits)	20-500	Ref. white setting.(Only for HDR)
	Variable Backlight Mode	Gaming/Hybrid/ Desktop	Variable Backlight Mode setting
	Relative Gamma	[Default] -0.6/-0.3/ Default/0.3/0.6	Relative Gamma setting.
	SDR Colors sRGB	Off/On	Disable or Enable SDR Colors sRGB.
	SDR Variable Backlight	Off/On	Disable or Enable SDR Variable Backlight.
	ECO Mode	Off/On	Disable or Enable ECO Mode

Gsync Setting

AGON

Gsync Setting

Deep sleep		On
USB charge		Off
ULMB		Off
ULMB Pulse Width		
OverClock Enable		Off
MAX Refresh rate		
Apply&Reboot		

Enter   Move   Exit

|			
	Deep sleep	Off/On	Set the "allow deep sleep mode" to ON or OFF. The deep sleep mode will turn the FPGA completely off after a certain amount of time when either the user presses the monitor DC power off button or the PC puts the monitor to sleep.
	USB Charge	Off/On	USB charge On/Off
	ULMB	Off/On	Return ULMB capability for the timing associated with the timing index.
	ULMB Pulse Width	10-100	ULMB PWM setting
	OverClock Enable		Panel supports overclocking.

Note:
With Nvida® Ultra Low Motion Blur(ULMB) technology, objects in motion look sharper than they do during standard operation -even at high refresh rates such as 85hz, 100hz, 120hz.

Warning: If any display error or crash occurs during overclocking, remove and connect the DP cable or power cord to restart the display.

Color Setup
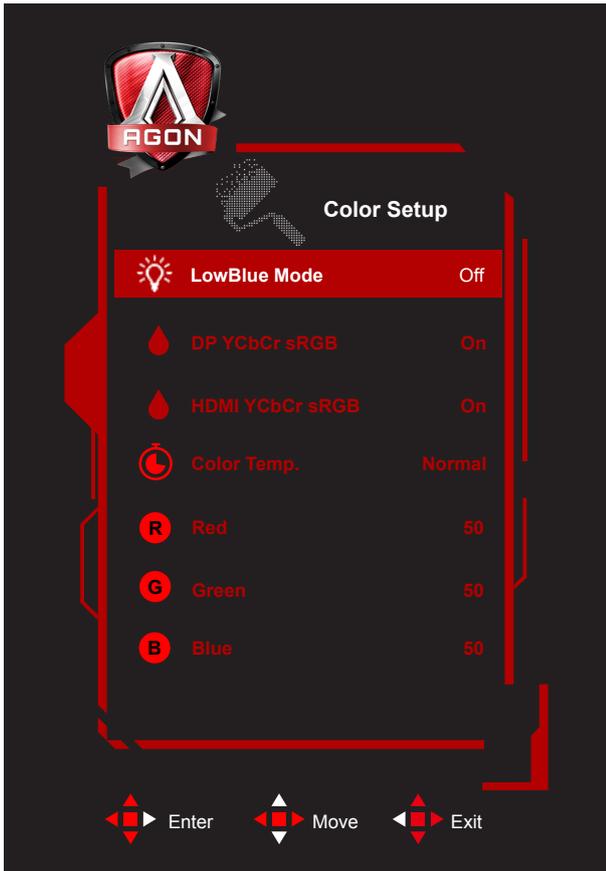
	LowBlue Mode	Off/Multimedia/ Internet/Office/ Reading	Decrease blue light wave by controlling color temperature.
	DP YCbCr sRGB	Off/On	Disable or Enable DP YCbCr sRGB.
	HDMI YCbCr sRGB	Off/On	Disable or Enable HDMI YCbCr sRGB.
	Color Temp.	Warm	Recall Warm Color Temperature from EEPROM.
		Normal	Recall Normal Color Temperature from EEPROM.
		Cool	Recall Cool Color Temperature from EEPROM.
		User	Restore Color Temperature from EEPROM.
	Red		Red Gain from Digital-register
	Green		Green Gain Digital-register.
	Blue		Blue Gain from Digital-register

Audio
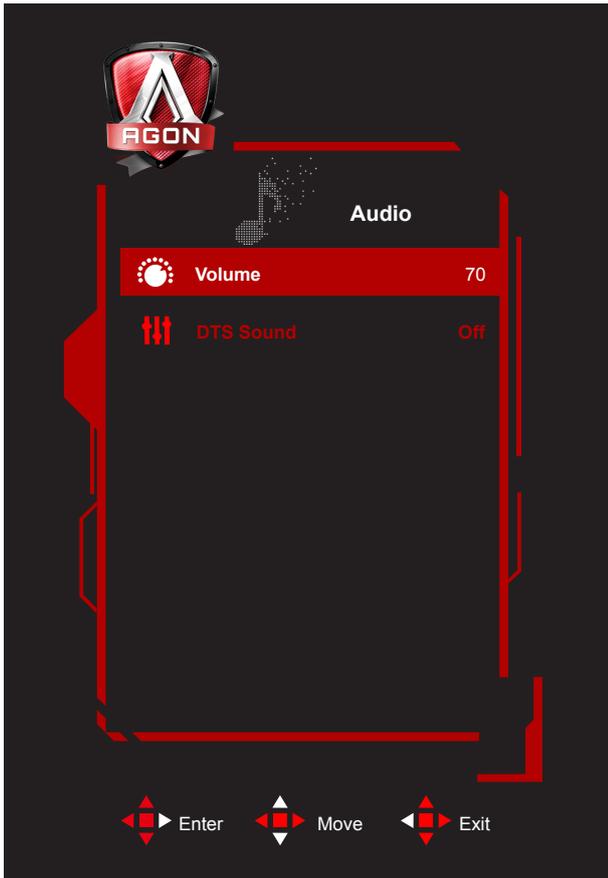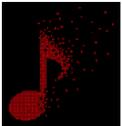
	Volume	0-100	Adjust volume setting
	DTS Sound	Off/On	Disable or Enable DTS

Light FX

	Light FX	Off/Low/Medium/Strong	Disable or Enable Light FX
	Light FX Mode	Static/Simple Shift/ Gradient Shift/Simple Filling/1 Way Filling/2 Way Filling/Breathing/Motion Point/Zoom/Discolor/ Water Wave/Flashing/ Demo	Select Light FX Mode
	Pattern	Red/Green/Blue/ Rainbow/User Define	Select Light FX Pattern
	Foreground R		
	Foreground G	0-100	User can adjust Light FX foreground color, when Pattern setting to user define
	Foreground B		
	Background R		
	Background G	0-100	User can adjust Light FX background color, when Pattern setting to user define
	Background B		

Extra

	Input Auto Switch	Off/On	Disable or Enable Input Auto Switch.
	Input Select	HDMI/DP	Select Input Signal Source.
	Reset		Reset the menu to default.

OSD Setup
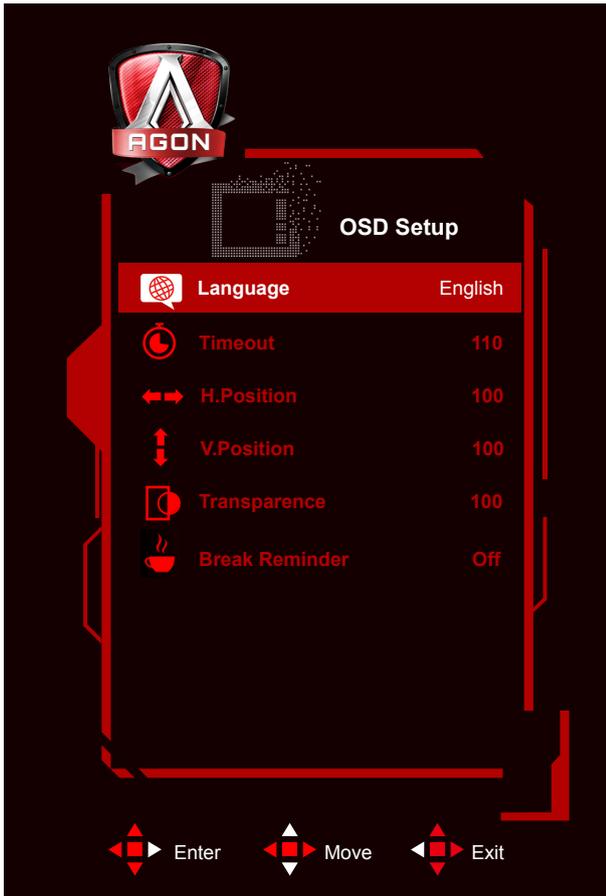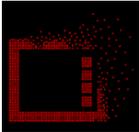
	Language		Select the OSD language
	Timeout	10-120	Adjust the OSD Timeout
	H. Position	0-100	Adjust the horizontal position of OSD
	V. Position	0-100	Adjust the vertical position of OSD
	Transparence	0-100	Adjust the transparence of OSD
	Break Reminder	Off/On	Break reminder if the user continuously work for more than 1hrs

LED Indicator

Status	LED Color
Full Power Mode	Red (Light FX OFF)
Active-off Mode	Orange

Troubleshoot

| Problem & Question	Possible Solutions
Power LED Is Not ON	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.

No images on the screen	• Is the power cord connected properly?
	  Check the power cord connection and power supply.
	• Is the cable connected correctly?
	  (Connected using the HDMI cable)
	  Check the HDMI cable connection.
	  (Connected using the DP cable)
	  Check the DP cable connection.
	  *HDMI/DP input is not available on every model.
	• If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.
	  If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows 7/8/10) and then change the frequency of the video card.
	  (Refer to the Setting the Optimal Resolution)
	  If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.
	• Can you see "Input Not Supported" on the screen?
	  You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.
	  Adjust the maximum resolution and frequency that the monitor can handle properly.
	• Make sure the AOC Monitor Drivers are installed.

Picture Is Fuzzy & Has Ghosting Shadowing Problem	Adjust the Contrast and Brightness Controls. Press to auto adjust. Make sure you are not using an extension cable or switch box. We recommend plugging the monitor directly to the video card output connector on the back.
Picture Bounces, Flickers Or Wave Pattern Appears In The Picture	Move electrical devices that may cause electrical interference as far away from the monitor as possible. Use the maximum refresh rate your monitor is capable of at the resolution you are using.
Monitor Is Stuck In Active Off-Mode"	The Computer Power Switch should be in the ON position. The Computer Video Card should be snugly fitted in its slot. Make sure the monitor's video cable is properly connected to the computer. Inspect the monitor's video cable and make sure no pin is bent. Make sure your computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.
Missing one of the primary colors (RED, GREEN, or BLUE)	Inspect the monitor's video cable and make sure that no pin is damaged. Make sure the monitor's video cable is properly connected to the computer.
Picture has color defects (white does not look white)	Adjust RGB color or select desired color temperature.
Horizontal or vertical disturbances on the screen	Use Windows 7/8/10 shut-down mode to adjust CLOCK and FOCUS. Press to auto-adjust.

Specification

General Specification

Panel	Model name	AG353UCG
	Driving system	TFT Color LCD
	Viewable Image Size	89 cm diagonal
	Pixel pitch	0.2382mm(H) x 0.2402mm(V)
	Video	HDMI Interface & DP Interface
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
Others	Horizontal scan range	30k~150kHz(HDMI) 30k~255kHz(DP)
	Horizontal scan Size(Maximum)	819.408mm
	Vertical scan range	24~100Hz(HDMI) 1~200Hz(DP)
	Vertical Scan Size(Maximum)	345.888mm
	Optimal preset resolution	3440x1440@60Hz
	Max resolution	3440x1440@100HZ(HDMI 2) 3440 x1440@200Hz (DP 1.4)(DP OverClock Enable On)
	Plug & Play	VESA DDC2B/CI
	Input Connector	HDMI/DP/USB/Microphone In
	Input Video Signal	TMDS
	Output Connector	Earphone out
	Power Source	19.5Vdc, 11.79A
	Power Consumption	Typical(Brightness = 90,Contrast = 50) — TBDW
		Max. (brightness = 100, contrast =100) — ≤TBDW
		Power saving — ≤0.5W
	Off timer	0~24 hrs
Physical Characteristics	Connector Type	HDMI/DP/USB/Earphone out
	Signal Cable Type	Detachable
Environmental	Temperature	Operating — 0°~ 40°
		Non-Operating — -25°~ 55°
	Humidity	Operating — 10% ~ 85% (non-condensing)
		Non-Operating — 5% ~ 93% (non-condensing)
	Altitude	Operating — 0~ 5000 m (0~ 16404ft)
		Non-Operating — 0~ 12192m (0~ 40000ft)

Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)
VGA	640 x 480 P 59.94/60Hz	31.469	59.94
EDTV	720 x 480 P 59.94/60Hz	31.469	59.94
EDTV	720 x 576 P 50Hz	31.25	50
VESA	800 x 600 @ 60Hz	37.879	60.317
HDTV	1280 x 720 P 59.94/60Hz	44.955	59.94
HDTV	1280 x 720 P 50Hz	37.5	50
FHD	1920 x 1080 P 59.94/60Hz	67.5	60
FHD	1920 x 1080 P 50Hz	56.25	50
WQHD	3440x1440 @ 100Hz	150.972	99.982
WQHD	3440x1440 @ 60Hz	89.819	59.973

Pin Assignments
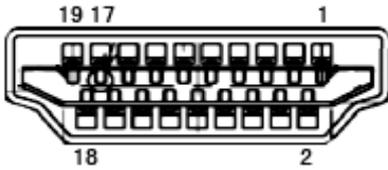
19-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1.	TMDS Data 2+	9.	TMDS Data 0-	17.	DDC/CEC Ground
2.	TMDS Data 2 Shield	10.	TMDS Clock +	18.	+5V Power
3.	TMDS Data 2-	11.	TMDS Clock Shield	19.	Hot Plug Detect
4.	TMDS Data 1+	12.	TMDS Clock-		
5.	TMDS Data 1Shield	13.	CEC		
6.	TMDS Data 1-	14.	Reserved (N.C. on device)		
7.	TMDS Data 0+	15.	SCL		
8.	TMDS Data 0 Shield	16.	SDA		
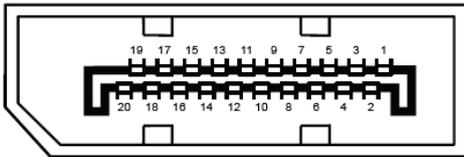
20-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name
1	ML_Lane 3 (n)	11	GND
2	GND	12	ML_Lane 0 (p)
3	ML_Lane 3 (p)	13	CONFIG1
4	ML_Lane 2 (n)	14	CONFIG2
5	GND	15	AUX_CH(p)
6	ML_Lane 2 (p)	16	GND
7	ML_Lane 1 (n)	17	AUX_CH(n)
8	GND	18	Hot Plug Detect
9	ML_Lane 1 (p)	19	Return DP_PWR
10	ML_Lane 0 (n)	20	DP_PWR

Plug and Play

Plug & Play DDC2B Feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I2C protocol. The host can request EDID information over the DDC2B channel.

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