

M152H Monitor

User Manual

GeChic

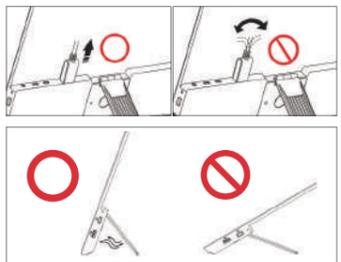
23.06.30

How-to's



Precautions of Using Monitor, Warnings and Warranty Exclusions

- ⚠ The sign alerts you to potential hazards that can hurt you or damage the product.**
- 1. Use only the power supply and power cord that comes with this monitor. Using other power adapter may cause malfunction or danger.
- 2. It is recommended to use the monitor in a well-ventilated environment at room temperature around 0°C to 30°C and humidity around 45% to 85%. The monitor should display continuously changing images rather than displaying the same and a still image for a long time. If you need to use this monitor in an abnormal environment such as high temperature, high humidity, confined space, low atmospheric pressure, etc., please contact GeChic customer service center for further advice on usage environment.
- 3. When plugging in/out the cables, do make sure the force exerts in horizontal direction and do not shake the plug in vertical direction. Any damage caused by wrong plug urging is not included in the warranty coverage.
- 4. When using the monitor's USB-C port to power a computer, mobile phone or Nintendo Switch®, please place the monitor on a well-ventilated desktop, and keep the room temperature below 30 degrees. The stand must be erected to elevate the monitor, and the back of the monitor must not be close to the table.
- 5. Cleaning On-Lap Monitor: Unplug the power input before cleaning. Please use soft cloth to clean the screen. For stubborn stains, please use lightly-dampened cloth to wipe again. Do not use benzene, alcohol, thinner, ammonia, abrasive cleaners, compressed air or other corrosive solvents. These solvents may cause permanent damage on the screen or leave unremovable stain.
- 6. Do not expose the LCD panel to sunlight.
- 7. The product is not waterproof. Do not use this product in or near water.
- 8. Do not use the volume that may cause damage to hearing; when connecting headphones to use, please lower the volume setting first. Slowly adjust to the appropriate volume, do not wear headphones for long, continuous, high volume to avoid hearing damage.
- 9. Overuse of the monitor may result in vision damage. For every 30 minutes with the monitor, give your eyes 10 minutes break. Avoid children under aged 2 watching the monitor; prevent children over aged 2 from watching with the monitor over 1 hour per day.
- 10. Exclusions from Warranty Service
Please read the warranty terms below carefully, and follow the usage guide and precautionary notes. Please keep this manual for future reference. GeChic does not warrant uninterrupted or error-free operation of this Product. The warranty only covers failure /malfunction under normal use conditions during warranty period. The warranty does not apply to the following conditions:
 (1) The bar code has been removed or worn down, and cannot be identified.
 (2) This product has been modified, disassembled, or refitted.
 (3) Display works normally; only variation in appearance (e.g., ageing, attrition, scratch, color changing and etc.).
 (4) Any breakdown caused by power supply. (e.g., inputting power over rating voltage or unsteady current)
 (5) Any damage caused by disoperation or failure to follow this manual. (e.g., Plug or unplug cables in wrong direction and causing damage on cables or the monitor.)
 (6) Any damage caused by hitting or cracking monitor accidentally or purposely, or collapsing or overturning monitor.



Monitor Parts Description

◆ Monitor Parts and I/O Ports

◆ Standard Accessories

Sleeve(16A4)

◆ OSD Hot Key

- LED Power Indicator**
It shows green light when the monitor is "On" and shows red light when the monitor is stands by. There is no light when the monitor is "Off".
- Power On/Off**
Press once to turn on the monitor and press again to turn off the monitor.
Reset: Press and hold for 5 seconds to reset the OSD settings to default.
- Exit/ Input Source**
Press this button to show "Input Source" and then press **[+]** to switch the input sources. When using the OSD menu, press this button to return to previous page.
- Menu/ Select**
Press this button to launch OSD panel. When using OSD menu, press this button to select and enter the next page.
- + Increase Volume/ Up or Left**
Press this button to show "Volume bar". Press and hold this button to increase the Volume continuously. In the OSD menu, press this button to move up or the left.
- Decrease Volume/ Down or Right**
Press this button to show "Volume bar". Press and hold this button to decrease the Volume continuously. In the OSD menu, press this button to move down or the right.
- [+/-] OSD Menu Unlock**
Press these two buttons at the same time to release "OSD Menu Lock" and enable the functions of OSD buttons.

Optional Accessories

Optional Accessory	Description
M154 Stand	Insert the quick-release port of M152H monitor into M154 stand and you can use the monitor above the laptop.
USB Type-C Video Cable (2M)	Connect one end to computer's USB-C (DP Alt) port, and the other end to M152H's USB-C port to transmit audio, video signals and power at the same time.
HDMI-A to mini-HDMI Video Cable (2.1M)	Connect mini-HDMI plug to camera and connect HDMI-A plug to M152H monitor.
HDMI-A Video Cable (2.5M)	Connect to M152H and the computer to transmit HDMI video signals.

How to Use the Stands and the Sleeve(16A4)

◆ Use Quick-Release Stand

A. Adjust the Angles of Stand
Turn the Quick-Release Stand downward and adjust angles between 0° and 70°.

B. Insert the stand into Quick-release port (Bottom Hole)
 ① Press the round button on the release plug by one thumb.
 ② Draw out the Quick-Release Stand by the other hand at the same time.

③ With the round button outward, insert the stand into the bottom hole of quick-release port until the round button ejects.

④ Turn the Quick-Release Stand upward and adjust angles between 50° and 80°.

⚠ Warning!
DO NOT adjust the angle of the monitor over 80° forward, or the monitor may fall forward and break.

◆ Use M154 Stand

- Insert quick-release plug of M154 stand into the bottom hole of Quick-release port of M152H monitor until the round button ejects to fasten the monitor.
- Use the monitor above of the laptop. M154 stand viewing-angle can be adjusted between 20° forward and 50° backward.

The height of the lower edge of the display area from the desktop can be adjusted between 23cm and 35.1cm.

⚠ Warning!
DO NOT adjust the angle of the monitor over 20° forward, or the monitor may fall forward and break.

◆ Use the Monitor Sleeve

The GeChic label is on the FRONT of the sleeve, which is the thick side to protect the screen panel. Please put the **thick side** of the sleeve up, put the monitor into the sleeve with the panel upward, and then stick the hook and loop tape.

Thick Side | **Panel Side** | **Slim Side**

⚠ Caution! DO NOT put the monitor into the sleeve with its panel side toward the back of sleeve. The panel side must face the thick side of the sleeve to protect the panel from being broken.

⚠ Caution! Do not put items on the sleeve or hit the sleeve vigorously, otherwise the screen panel will be broken.

Connect to the USB-C Port to Input Video

⚠ Notice! The computer or phone must have a Thunderbolt 3 port supporting DisplayPort Alternate Mode. The USB 3.0 port cannot output video signals to the monitor, nor can it receive power from the monitor.

⚠ Notice! To charge the laptop or phone, M152H monitor must be connected to a 65W PD adapter.

A. Use 65W PD Power Adapter to Power M152H Monitor and Charge the Computer or Phone

- Connect **65W PD Power Adapter** to DC IN port of the monitor.
- Turn on the computer/phone first, and then use **USB Type-C Video Cable** to connect to the USB-C port on the monitor and a Thunderbolt 3 port on the computer/ phone. After the connection is successful, the monitor can display images from the computer/phone and charge the computer/phone.
- Plug a mouse or USB flash drive (USB device power consumption <1A or 5W) into the USB-A port of the monitor.

⚠ When the screen outputs power, the body temperature will rise. It is recommended to keep the room temperature below 30°C with good ventilation.

⚠ Precautions for the use of USB-A port

- Must connect the monitor's USB-C port (upstream) to the computer's USB-C port first.
- The monitor must be connected to a 65W PD power adapter, otherwise the monitor may flicker or not work properly due to insufficient power.
- When the monitor is charging the laptop, the USB-A port of the monitor can output a 1A (max.) current, so the power consumption of the connected USB device must be less than 1A, 5W (e.g., mouse, USB flash drive, etc.), but not wireless display adapters, speakers, etc..

B. Use the Thunderbolt 3 Port of computer to Supply Power to M152H Monitor

Use **USB Type-C Video Cable** to connect the USB-C port of the monitor and the Thunderbolt port of the computer. The computer outputs power and video signals via USB Type-C port. There is no need to connect to the power adapter and HDMI cable.

◆ When you plug a USB device into the USB-A port of the monitor, and the monitor flickers or stops working due to the insufficient power, please connect the 65W PD power adapter to the monitor.

Connect to the HDMI Port to Input the Video

A. Use 65W PD Power Adapter to Power M152H Monitor

- Connect **65W Power Adapter** to DC IN port of the monitor.
- Connect the monitor to the computer by the **HDMI-A Video Cable**.

⚠ WARNING! Please use the HDMI-A cable included in this product in priority. The top side of the HDMI-A plug shell must be less than 3mm thick, otherwise it will put pressure and cause malfunction on the monitor.

13mm 4mm (MAX)

B. Use the USB-A Ports of Computer to Supply Power to M152H Monitor

- Use **USB-A to USB-C Power Cable** to connect two USB-A ports on the computer to the DC IN port of the M152H monitor.

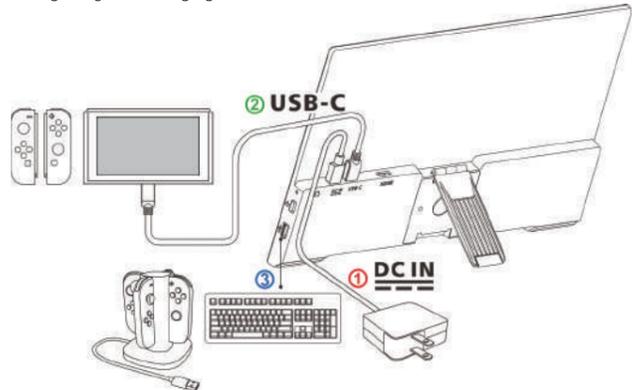
⚠ Notice! If you connect only one USB-A port of the computer to M152H, M152H might not be turned on due to insufficient current.

② Use **USB HDMI-A Video Cable** to connect the HDMI ports of the computer and the monitor.

◆ When you plug a USB device into the USB-A port of the monitor, the monitor flickers or stop working due to the insufficient power. Please connect the 65W PD power adapter to the monitor.

Connect to Nintendo Switch®

1. Connect **65W PD Power Adapter** to DC IN port of the monitor.
2. Turn on Switch® and then use **USB Type-C Video Cable** to connect the USB-C port of monitor and Switch®. Once connected successfully, the monitor can display the images from Switch® and charge Switch.
3. Switch® supports an external keyboard but not a mouse or other device, hence, the USB-A port of the monitor can only connect to a keyboard or charge Joy-Con through Joy-Con charging Dock.



- ⚠ To use Joy-Con while Switch® console outputs video signals to the monitor, you must detach the Joy-Con from Nintendo Switch® console.
- ⚠ After finishing the games, please unplug the USB Type-C video cable and then turn off Switch® console. Otherwise, the battery power of Switch® will run out gradually. Since the power supply is interrupted, the Switch® console will boot automatically and run out all the battery power by time.
- ⚠ When Switch runs out of power, it cannot be connected to the monitor. Please insert the 65W PD power adapter into Switch® console to charge it for 10 minutes and then connect to monitor by following the steps above.

OSD Menu Description

◆ Display Settings

As shown in the Fig., enter "Display Settings" to adjust "Brightness", "Contrast", "Sharpness", etc.

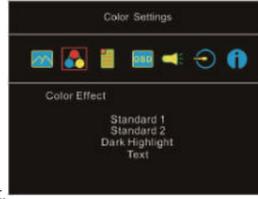
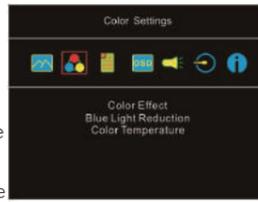
1. ECO Mode: The maximum brightness is at 50 in ECO Mode.
2. Auto Adjust: Launch "Auto Contrast Adjust" and "Auto Brightness Adjust" to adjust brightness and contrast automatically to ensure the highest quality when displaying moving images.
3. Aspect Ratio: When "Full Screen(16:9)" is selected, the monitor displays a 16:9 image in full screen. When "4:3" is selected, the monitor displays a 4:3 image with left-right side black borders to fill the 16:9 screen. When "Original" is selected, the monitor displays the image in its original size.

◆ Color Settings

1. Color Effect: If the output format of computer image is RGB Limited, it is recommended to select "Standard 1"; if it is RGB Full format, it is recommended to select "Standard 2". Select "Dark Highlight" mode to brighten up dark areas; select "Text" mode to make HTML text clearer.
2. Blue Light Reduction: Select "On" to reduce the screen's blue light automatically.
3. Color Temperature: Select "Cool" to increase the blue color of the image; Select "Warm" to increase the red color of the image. Select "User" to adjust the RGB color settings manually.

◆ Advanced Settings

1. Auto Power Off: Select "Yes" to activate this function. When there is no image input, the monitor will enter Standby mode, and power off itself after 270 seconds. The power button shall be pressed to turn on the monitor again. Select "No" to disable this function. The monitor will remain in standby mode and will not switch off the power.
2. Power Indicator : Select "No" to turn off the power on/off indicator.



3. OSD Button Lock : If "On" is selected, the four OSD buttons are disabled. Press and hold the power button for 5 seconds, the monitor will restore factory settings and enable the four OSD buttons again. (Hot-Key: Pressing [] two buttons at the same time will release OSD Button Lock and enable the OSD buttons)
4. CEC Mode: When "On" is selected and connect to a computer with HDMI CEC function, user may switch the monitor and computer synchronously. When switching the computer off, the monitor will be turned off at the same time. However, when switching the computer on, the monitor can't be turned on automatically. Please turn on the monitor by pressing power button.
5. Overscan: Only applicable to HDMI video signal input (such as 1080P/720P, etc.). Enabling this function will calibrate the display range automatically.

◆ OSD Menu

1. Language Select: Change to the other language.
2. H. Position: Move the OSD menu left/right.
3. V. Position: Move the OSD menu up/down.
4. Orientation: Change the orientation of OSD menu, e.g., when "90°" is selected, the OSD menu can be rotated 90 degrees counter-clockwise.
5. Timer (sec): Adjust the idle time before OSD menu disappears.
6. Transparency: Make the OSD menu transparent to show the background.

◆ Audio

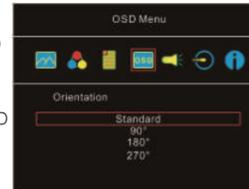
Adjust the audio volume or activate the mute mode. When "On" is selected for "Mute", the monitor stops playing audio and the sound can only be played again after " Mute" mode is turned off.

◆ Input Source

1. Input Source: Select **HDMI** (video input via HDMI-A port) or **USB Type-C** (video input via USB Type-C port).
2. Auto Search: When "On" is selected, the monitor will detect two video input sources in sequence, and the monitor will show the first video input read. When "Off" is selected, only the video source selected in Input Source will be displayed. If there is no such selected video input, the monitor will show "No signal" warning message, and won't detect other video sources.

◆ Information

Show frequency of the input image, model name, firmware version, etc.
1. Reset: Select "Yes" to restore factory settings.



General Specification

Panel	Wide Screen 15.6 inch(16:9)
Resolution/Color Depth	1920x1080/16.2M Colors
Brightness/ Contrast	300 (cd/m²)(Typ.)/ 1000:1 (Typ.)
Viewing Angle	170°(H)/170°(V)(CR>10)
HDMI-A Port	HDMI Video Input (Support HDMI 1.4, HDCP V1.4, and HDMI CEC)
USB-C Port	USB-C Video Input (Support DP 1.2, HDCP V1.3) Compatible with Power Delivery (Support 5V current input and 5/9/15/20V current output). (The maximum power output is 45W, 20V-2.25A)
USB-A Port	USB 2.0 (The maximum power output is 5W, 5V-1A)
DC IN Port	Compatible with Power Delivery (Support 20V current input)
Audio Output	Earphone Jack(3.5mm mini jack) (Support Analog 3.5mm AUX)
Speakers	2W(Max.)× 2 (Rated Impedance 4Ω at 1KHz)
Power Spec.	Rating Power: 5V ⚡ DC 2.0A(Typ.) ; 20V ⚡ DC 0.5A Power Consumption-ECO Mode: <0.5W Power Consumption-Off: <0.3W
Environment Conditions	Operational: 0~40°C; Storage -20~60°C
Dimension(W×H×D)	W × H: 358mm × 238mm D: 7mm(min.)~ 21mm(max.)
Weight (Typ.)	768g
Certification	    

Supported Video Modes

1920x1080P (50Hz/59.94Hz/60Hz)	1280x720P (50Hz/59.94Hz/60Hz)
720x480P (59.94Hz/60Hz)	640x480P (59.94Hz/60Hz)

Supported Display Modes

Resolution	Refresh Rate	Horizontal Frequency (kHz)	Vertical Frequency (kHz)
640x480	60Hz	31.469	59.940
720x480	60Hz	29.855	59.710
800x600	60Hz	37.879	60.317
848x480	60Hz	31.02	60.000
960x600	60Hz	37.212	59.635
1024x768	60Hz	48.363	60.004
1152x864	60Hz	53.783	59.959
1280x600	60Hz	37.377	59.900
1280x720	50Hz	37.500	50.000
1280x720	60Hz	45.000	60.000
	60Hz	44.772	59.855
1280x768	60Hz	47.776	59.870
1280x800	60Hz	49.702	59.810
1280x960	60Hz	60.000	60.000
1280x1024	60Hz	63.981	60.020
1360x768	60Hz	47.712	60.015
1366x768	60Hz	47.712	59.790
1360x1024	60Hz	63.606	59.836
1400x1050	60Hz	65.317	59.978
1440x900	60Hz	55.935	59.887
1600x900	60Hz	55.990	59.946
1600x1024	60Hz	63.675	59.901
1680x1050	60Hz	65.290	59.954
1920x1080	50Hz	56.250	50.000
1920x1080	60Hz	67.500	60.000
	60Hz	66.587	59.934

Troubleshooting

Problem	Solutions
1. After ending the games, Switch® console automatically turns on, causing the battery to run out.	After finishing the games, the monitor is off or in sleep mode and it stops to power Switch®. Due to power interruption, Switch® will be on automatically. Please change the setting in Switch®, enter System Settings> Sleep mode> and select "Disable" for "Wake When AC Adapter is Disconnected" so that Switch® won't wake from sleep mode when AC adapter is disconnected.
3. How to make M152H monitor display in full screen when the phone is connected to M152H.	When the smartphone displays content in portrait, the mirrored image displays in the center part of the monitor. The full-screen display only shows when rotating the smartphone screen to landscape. 
3. When using YouTube on Switch® console to play videos, the monitor only displays images but no sound.	This is caused by an error when YouTube on the Switch® obtains the HDCP authorization code of the monitor through the USB-C video cable. Please use the HDMI port of the Switch® Dock to connect to the HDMI port of the monitor, and the monitor can play YouTube video and sound at the same time.
4. Use the USB-C video cable to connect the monitor to the computer. When the computer was turned on the next day, the connection between the computer and the monitor failed, and the monitor could not display images.	When the computer restarts, the USB-C video connection may not work automatically, so the monitor cannot display the video. <ol style="list-style-type: none"> 1. Please re-plug the USB-C video cable to the computer. 2. When not using the computer, please turn off the computer and the monitor (Power off). When using it again, turn on the monitor first, and then turn on the computer. The computer shall be able to connect the USB-C transmission automatically.

LCD Pixel Statement

There is slightly uneven brightness on the screen when displaying different screen pattern. The LCD screen has 99.99% or more effective pixels. 0.01% of pixels or less may not light or may light incorrectly. The On-Lap monitor uses a high quality LCD panel. Nevertheless, pixels on the LCD screen may not light or appear as red or black dots. All the above are normal with the LCD monitor and will not affect the normal usage of the product. Avoid placing the monitor against sun-light, or it may damage the monitor.

WEEE Symbol Information

This product needs to be recycled at an appropriate recycling point. Do not mix it with household waste.

This symbol on the product, accessories or literature indicates that this product and its electronic accessories (e.g., adapter, cables) must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of these items by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

For Disposal in Countries Outside of the European Union
If you wish to discard this product and its accessories in other area and countries, please contact your local government for applicable laws and regulations governing the disposal of this product.

FCC Compliance Statement

Notice: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15B of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution:

1. Changes or modifications not expressly approved by GeChic Corp. could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.



GeChic Corporation
11F-3, No. 138, Zhongming S. Rd.,
West Dist., Taichung, Taiwan
Customer Service service@gechic.com
Service Hotline **+886-4-23198080**
Mon.-Fri. 09:00-12:00 & 13:00-18:00(UTC+08:00)

