

MONOPRICE

Resistive Touch LCD Touch Screen Monitor



Models 15481, 15482, 15483, 15486

User's Manual

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SAFETY WARNINGS AND GUIDELINES

- Do not place the monitor on an unstable surface where it could fall and cause either personal injury or damage to the monitor and/or other equipment.
- Do not expose this device to excessive vibration.
- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near heat sources, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Do not block the ventilation holes in the monitor's casing. Do not place the monitor in a confined space with inadequate ventilation. Periodically check the ventilation holes to ensure they do not become clogged with dust, debris, or nearby items.
- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.

- Ensure that power is turned off and disconnected before making any electrical connections.
- Remove the battery from the controller if it will go unused for a lengthy period of time.
- Unplug the monitor if it will go unused for a long period of time.
- Unplug the monitor before performing any cleaning.
- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This monitor has no user serviceable parts. Do not open the case or otherwise attempt to modify this monitor.

INTRODUCTION

Thank you for purchasing this Touch Screen Monitor! This touch screen monitor features two composite video inputs using BNC connectors and a pass-through composite BNC video output. It also features HDMI® and VGA inputs, as well as pass-through audio input and output. Usable out of the box as a capacitive type touch screen, it can be operated as a resistive type touch screen by using the included drivers.

FEATURES

- Two composite BNC video inputs
- One composite BNC video pass-through output
- HDMI® and VGA inputs
- Can be used as a capacitive type touch screen without drivers or as a resistive type using the included drivers

CUSTOMER SERVICE

The Monoprice Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website www.monoprice.com during normal business hours (Mon-Fri: 5am-7pm PT, Sat-Sun: 9am-6pm PT) or via email at support@monoprice.com

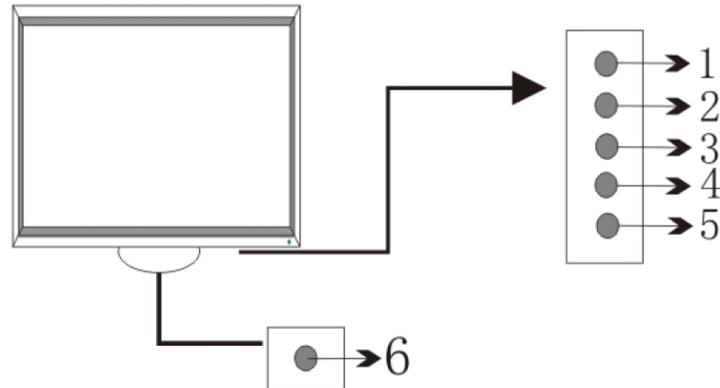
PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

- 1x Resistive touch screen monitor
- 1x Stand base
- 1x Stand thumbscrew (15481, 15483 only)
- 1x Infrared remote control with installed CR2032 battery
- 1x AC power adapter
- 1x AC power cord (NEMA 1-15 to IEC 60320 C7)
- 1x Drivers CD
- 1x User's manual

MONITOR CONTROLS

Models 15481, 15482, 15483

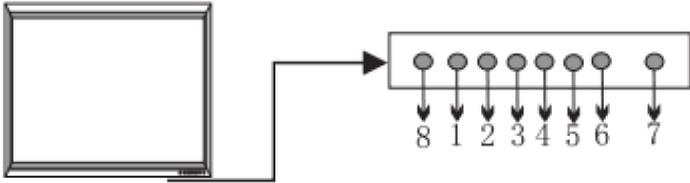


Models 15481, and 15483 have the button row along the bottom edge of the monitor bezel, with the following arrangement from left to right. Model 15482 has the same arrangement, but from left to right.

#	Button	Function
1	AUTO	<ul style="list-style-type: none">• When a menu is not being displayed, press AUTO to access the Input Selection menu.• When the Input Selection menu is displayed, press AUTO to move the highlight down over the four possible inputs• When a Main menu screen is being displayed, press AUTO to enter the submenu or to move the highlight down over each menu entry.
2	- / DOWN	<ul style="list-style-type: none">• When a menu is not displayed, press -/DOWN to decrease the volume level.• When a menu is being displayed, press -/DOWN to decrease the selected value.

3	+ / UP	<ul style="list-style-type: none"> When a menu is not displayed, press + / UP to increase the volume level. When a menu is being displayed, press + / UP to increase the selected value.
4	MENU	<ul style="list-style-type: none"> When a menu is not displayed, press MENU to access the Main Menu. When a menu is being displayed, press MENU to back out to the previous menu level or to exit the Main menu.
5	POWER	<ul style="list-style-type: none"> When the monitor is in standby mode, press POWER to turn it on. When the monitor is powered on, press POWER to put it in standby mode.
6	IR	Infrared Sensor: Aim the included remote control at the sensor from a position no more than 30° from perpendicular and a distance no more than 22 feet (7 meters)

Model 15486



Model 15486 has the button row on the back of the right-side bezel, with the arrangement from top to bottom.

#	Button	Function
1	POWER	<ul style="list-style-type: none"> When the monitor is in standby mode, press POWER to turn it on.

		<ul style="list-style-type: none"> When the monitor is powered on, press POWER to put it in standby mode.
2	CH- / DOWN	<ul style="list-style-type: none"> When the top level of the Main Menu is displayed, press CH- /DOWN to enter the highlighted submenu. When in a submenu of the Main Menu or when the Input Selection menu is displayed, press CH-/DOWN to move the highlight down.
3	CH+ / UP	<ul style="list-style-type: none"> When in a submenu of the Main Menu or when the Input Selection menu is displayed, press CH+/UP to move the highlight up.
4	V- / LEFT	<ul style="list-style-type: none"> When a menu is not displayed, press V-/LEFT to decrease the volume level. When the Input Selection menu is displayed, press V-/LEFT to select the highlighted entry. When in a submenu of the Main Menu, press V-/LEFT to decrease the selected value.
5	V+ / RIGHT	<ul style="list-style-type: none"> When a menu is not displayed, press V+/RIGHT to increase the volume level. When the Input Selection menu is displayed, press V+/RIGHT to select the highlighted entry. When in a submenu of the Main Menu, press V+/RIGHT to increase the selected value.
6	MENU	<ul style="list-style-type: none"> When a menu is not displayed, press MENU to access the Main Menu. When a submenu of the Main Menu is being displayed, press MENU to back out to the previous Main Menu. When editing a value, press MENU to save the displayed value. When the Main Menu is displayed, press MENU to exit the Main Menu.

7	INPUT	<ul style="list-style-type: none"> When a menu is not being displayed, press INPUT to access the Input Selection menu. When the Input Selection menu is displayed, press INPUT to exit the Input Selection menu.
8	IR	<p>Infrared Sensor: Aim the included remote control at the sensor from a position no more than 30° from perpendicular and a distance no more than 22 feet (7 meters)</p>

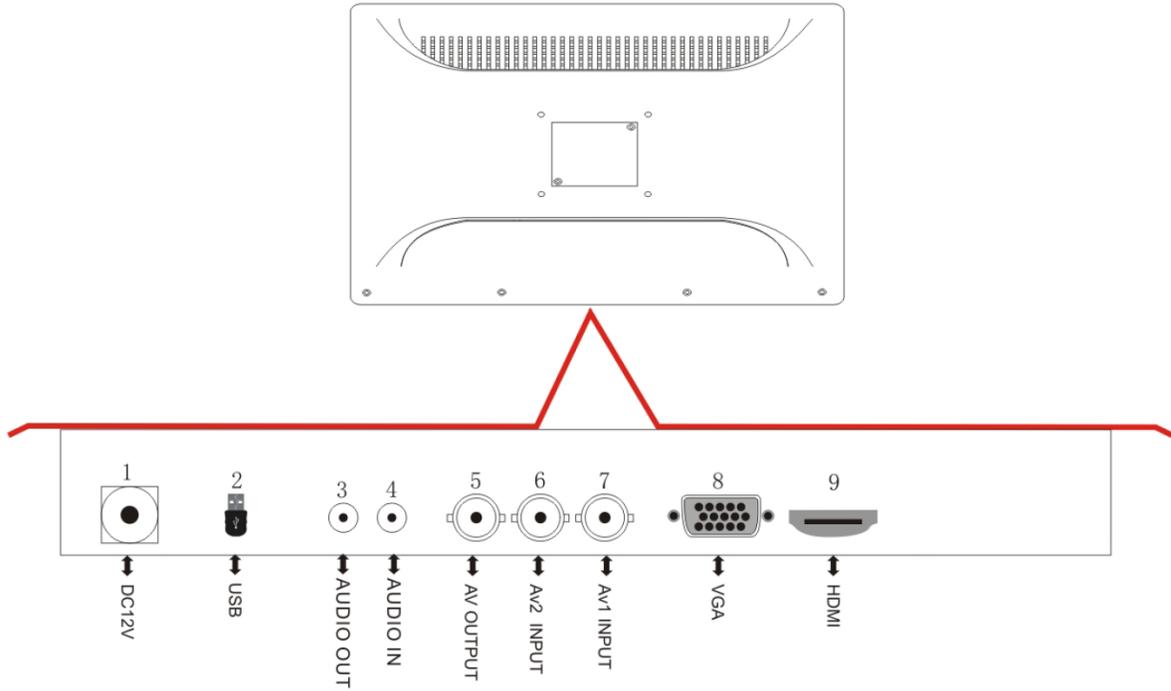
REMOTE CONTROL



Button	Function
POWER	Switches the monitor between Standby Mode and On.
MUTE	Toggle audio muting on and off.
PICTURE	Displays the current Picture mode, as set in the Main menu.
FREEZE	Toggles Freeze mode on and off. When Freeze mode is on, the video display is locked to the current image and items on screen cannot be selected or manipulated.
INPUT	Toggles the Input Selection menu on and off.

UP	Moves the menu selection highlight up, when in a submenu of the Main menu or when the Input Selection menu is displayed.
DOWN	Enters a submenu when the Main menu is displayed. Moves the menu selection highlight down, when in a submenu of the Main menu or when the Input Selection menu is displayed.
LEFT	Decreases the volume level when no menu is being displayed. Selects the highlighted video input when the Input Selection menu is being displayed. Decreases the selected value when in a submenu of the Main menu.
RIGHT	Increases the volume level when no menu is being displayed. Selects the highlighted video input when the Input Selection menu is being displayed. Increases the selected value when in a submenu of the Main menu.
MENU	Displays the Main menu when no menu is being displayed. Backs out of a submenu when in a submenu of the Main menu. Saves the displayed value when a value is being edited. Exits the Main menu when at the top level of the Main menu.
VGA	Sets the video input to VGA.
YPbPr	Not used.
HDMI	Sets the video input to HDMI®.
AV	Sets the video input to AV1 when the VGA or HDMI inputs are in use. Toggles between AV1 and AV2 when one or the other is selected.
S-VIDEO	Not used.
DVI	Not used.

CONNECTIONS



#	Connection	#	Connection
1	DC power connector	6	BNC2 / AV2 video input
2	USB cable lead (non-removable)	7	BNC1 / AV1 video input
3	3.5mm stereo audio output	8	VGA video input
4	3.5mm stereo audio input	9	HDMI® video input
5	BNC / AV output		

MAIN MENU OPERATION

- When the Main menu is not being displayed, press the **MENU** button to display the top level of the Main menu.
- When the top level of the Main menu is displayed, press the **+** and **-** buttons to cycle among the three submenus (Picture, System, Function).
- When the top level of the Main menu is displayed, press the **AUTO** button to select the highlighted submenu.
- When one of the three submenus is selected, press the **AUTO** button to cycle the highlight down through the available options. When the bottom option is reached, press the **AUTO** button to move the highlight back to the option at the top of the submenu.
- When an option in one of the three submenus is highlighted, press the **+** button to increase the selected value and press the **-** button to decrease the selected value.
- When one of the three submenus is selected or when an entry is being edited, press the **MENU** button to back out to the previous menu level.
- When the top level of the Main menu is displayed, press the **MENU** button to exit the Main menu.

INPUT MENU OPERATION

- When no menu is being displayed, press the **AUTO** button to display the Input Selection menu.
- When the Input Selection menu is being displayed, press the **AUTO** button to cycle the highlight down through the available input options. When the last option is highlighted, press the **AUTO** button to move the highlight to the option at the top of the Input Selection menu.
- Press the **+** or **-** button to select the highlighted input option.



Note: The VGA option on model 15486 is labeled PC instead of VGA.

MONITOR STAND

Perform the one of the following sets of steps to install the base for the monitor stand.

Models 15481, 15483

1. Position the base on the stand, fitting the stand into the indentation on the base.
2. Use the stand thumbscrew to secure the base to the stand.

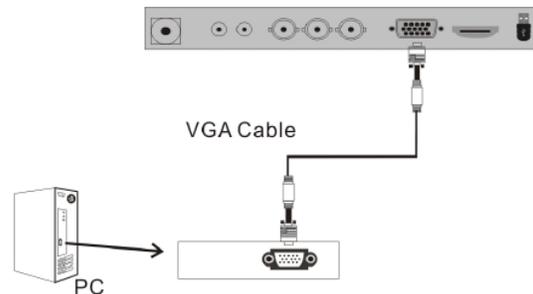
Model 15482, 15486

1. Position the base on the stand, with the lock hole at the back.
2. Press the base down on the stand until it clicks in place.

INSTALLATION

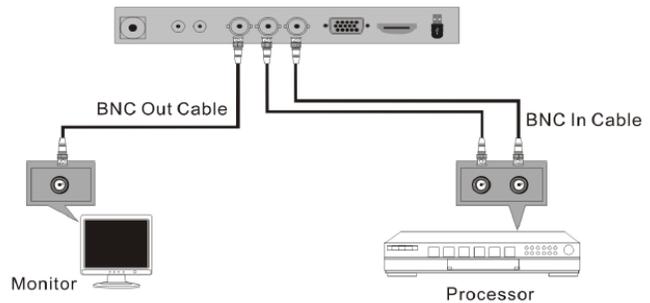
The monitor supports four video inputs, each of which can be connected. However, only a single video connection is required, any additional video inputs can be used or not as needed.

1. Ensure that all equipment that will be connected is powered off and unplugged from its power source.
2. Install the base onto the monitor stand by following the instructions in the *Monitor Stand* section above, or mount the monitor onto a compatible wall or desk mount.
3. Using the included VGA cable, plug one end into the **VGA Video Input (8)** on the back of the monitor, then plug the other end into the VGA output of your source device (e.g., computer). Tighten the thumbscrews on each plug to secure them in place.



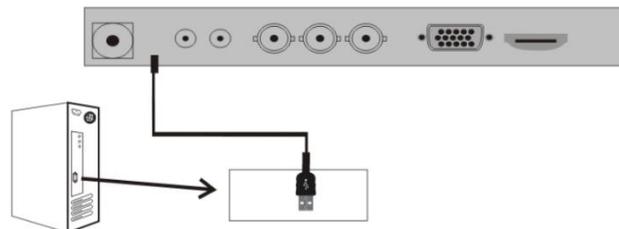
4. (Optional) Using a High Speed HDMI® Cable (not included), plug one end into the **HDMI Video Input (9)** on the back of the monitor, then plug the other end into the HDMI output on your HDMI source device.
5. (Optional) Using a coaxial video cable with BNC connectors (not included), plug one end into the **BNC1/AV1 Video Input (7)** on the back of the monitor, then plug the other end into the BNC video output on your video source device.

6. (Optional) Using a coaxial video cable with BNC connectors (not included), plug one end into the **BNC2/AV2 Video Input (6)** on the back of the monitor, then plug the other end into the BNC video output on your video source device.



7. (Optional) Using a coaxial video cable with BNC connectors (not included), plug one end into the **BNC/AV Video Output (5)** on the back of the monitor, then plug the other end into the BNC video input on your video output device (monitor, DVR, etc.).
8. (Optional) Using a 3.5mm stereo audio cable, plug one end into the **Audio Input (4)** on the back of the monitor, then plug the other into the audio output on your audio source device.

9. (Optional) Plug your audio output device (powered speakers, headphones, etc.) into the **Audio Output (3)** on the back of the monitor.



10. Plug the **USB Cable Lead (2)** into an available USB port on your computer.
11. Plug the DC barrel connector on the included AC power adapter into the **DC Input Connector (1)** on the back of the monitor.

12. Plug the included AC power cable into the AC power adapter, then plug the other end into a nearby AC power outlet.



13. Plug in and power on all connected equipment.
14. If you will be using this as a Capacitive type touchscreen, you do not need to install the drivers. If you will be using it as a Resistive type touchscreen, you will need to install the drivers from the included Drivers CD or by downloading them from the Monoprice.com website. Insert the CD in your CDRom driver, locate the folder that matches your operating system, then launch the installer and follow the onscreen directions to install the drivers. You may need to reboot afterwards.

Congratulations, you have successfully installed your new touchscreen monitor!

OSD MENU SYSTEM

Input Selection Menu

This menu allows for direct selection of one of the four input options. Note that the monitor will not switch away from an unused or inactive input, allowing you to continuously monitor an input for activity.



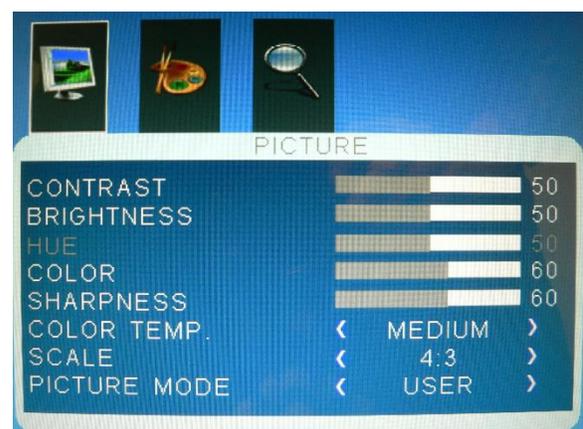
Picture Menu

Contrast: Allows adjustment of image contrast.

Brightness: Allows adjustment of image brightness.

Hue: Not used.

Color: Allows adjustment of the color saturation level.



Sharpness: Allows adjustment of image sharpness.

Color Temp.: Allows selection of one of the available color temperature settings. The available options are **Cool, Medium, Warm, and User.**

Scale: Allows adjustment of the aspect ratio of the displayed image. The available options are **4:3, 16:9, and PointToPoint.**

Picture Mode: Allows selection of one of the picture setting presets or saved user settings. The available options are **Mild, Standard, Dynamic, and User.**

System Menu

OSD Language: Allows selection of the language used in the OSD menu system. The available options are **English and Chinese.**

OSD Duration: Allows you to set how long the OSD menu will display without any input before it automatically exits. You can set it to between 10 and 100 seconds, in 10 second increments. You can also set it OFF, which means that the OSD menu will stay on screen until it is manually exited using the **MENU** button.

Menu Transparency: Allows you to control the opacity/transparency of the OSD menu. The available options are **Off** (no transparency), **Low, Middle, and High.**

Backlight: Allows you set the brightness of the screen backlighting. You can set it from 0% (off) to 100% (maximum) in 10% increments.

Reset: Allows you to reset all monitor settings to the factory defaults.



Function Menu

Color Range: When enabled, this option allows you to adjust the image color temperature. (HDMI only)

Noise Reduction: This option allows you to enable digital noise reduction. When set to **Off** or **Default**, no noise reduction is made. When set to **Low**, very little noise reduction occurs and the image may have a lot of noise. When set to **High**, maximum noise reduction occurs and the image should have minimal noise. The **Middle** option is a compromise between the two extremes. (AV1 and AV2 only)

ID Set: Not used.

Screen: Opens a submenu, which allows you to adjust the screen **Horizontal Position**, **Vertical Position**, **Size**, and **Phase**. (VGA only)

Auto Adjust: Automatically sets the screen position, size, and phase. (VGA only)

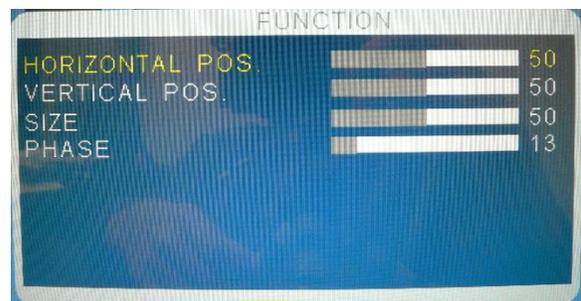
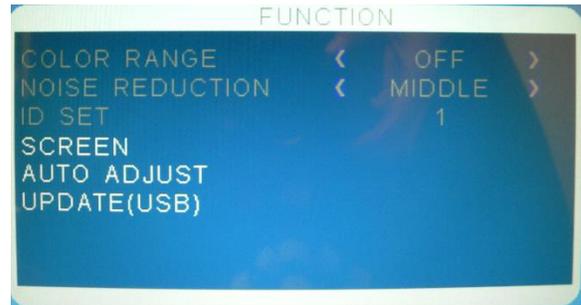
Update (USB): Not used

Horizontal Pos.: Adjusts the horizontal position of the image on the screen. (VGA only)

Vertical Pos.: Adjusts the vertical position of the image on the screen. (VGA only)

Size: Adjusts the image size. (VGA only)

Phase: Allows adjustment of the phase. (VGA only)



TROUBLESHOOTING

Following are some common problems and possible solutions. If you cannot solve a problem yourself, please contact Monoprice Technical Support for assistance.

Q: The power LED is off.

A: Verify that the power adapter is plugged into the monitor. Verify that the power cord is plugged into both the AC adapter and the power outlet. Verify that the power outlet is live by plugging something else into it, such as a lamp.

Q: The picture is weak, washed out, or over saturated.

A: Adjust the Brightness and/or Contrast.

Q: The image flashes or distorts.

A: Verify that there are no nearby sources of Radio Frequency or Electromagnetic Interference (RFI or EMI).

Q: The power LED is glowing blue, but the display is blank.

A: Press a key on the keyboard to ensure the computer is not asleep or that a screen saver is active. Verify that the proper input is selected. Verify that the display cable is securely attached to both the display and the video source. Replace the cable with another of the same type to verify that it is not faulty.

Q: One of the primary colors (red, green, or blue) is missing.

A: Replace the video cable with another of the same type. Connect to a different video source to verify that there are no problems with the video card or source device.

Q: The colors are not correct.

A: Adjust the color temperature.

SPECIFICATIONS

P/N	15481	15482
Screen Size	15"	17"
Active Display Area	304 x 228 mm	340 x 273 mm
Aspect Ratio	4:3	4:3
Display Type	TFT-LCD	TFT-LCD
Maximum Resolution	1024 x 768	1280 x 1024
Colors	16.7 million	16.7 million
Pixel Pitch	0.297 x 0.297 mm	0.264 x 0.264 mm
Brightness	430 cd/m ²	350 cd/m ²
Contrast Ratio	800:1	500:1
Viewing Angles (H / V)	140° / 110°	160° / 140°
Vertical Frequency	60Hz	60Hz
Response Time (rise / fall)	5ms / 20ms	5ms / 10ms
Backlighting	LED	4CCFL
Composite Video Inputs	2 (BNC)	2 (BNC)
VGA Video Inputs	1	1
HDMI® Video Inputs	1	1
Composite Video Outputs	1 (BNC)	1 (BNC)
Audio Input	1 3.5mm TRS	1 3.5mm TRS
Internal Speakers	none	none
Touchscreen Technology	Resistive 5-wire touch	Resistive 5-wire touch
Interface	USB	USB
Transparency	≥ 78%	≥ 78%

Useful Life	35 million	35 million
Compatible OS	All	All
Video System Compatibility	PAL, NTSC, SECAM	PAL, NTSC, SECAM
Menu Languages	English, Chinese	English, Chinese
Input Power	12 VDC, 3A	12 VDC, 3A
AC Adapter Input Power	100 ~ 240 VAC, 50/60 Hz	100 ~ 240 VAC, 50/60 Hz
Max Power Consumption	≤ 20 watts	≤ 35 watts
Standby Power Consumption	< 1 watt	< 1 watt
Operating Temperature	+14 ~ +140°F (-10 ~ +60°C)	+14 ~ +140°F (-10 ~ +60°C)

P/N	15483	15486
Screen Size	19"	21.5"
Active Display Area	376 x 301 mm	477 x 268 mm
Aspect Ratio	4:3	16:9
Display Type	TFT-LCD	TFT-LCD
Maximum Resolution	1280 x 1024	1920 x 1080
Colors	16.7 million	16.7 million
Pixel Pitch	0.294 x 0.294 mm	0.248 x 0.248 mm
Brightness	350 cd/m ²	250 cd/m ²
Contrast Ratio	1000:1	1000:1
Viewing Angles (H / V)	160° / 160°	178° / 178°
Vertical Frequency	60Hz	60Hz
Response Time (rise / fall)	5ms / 5ms	5ms / 5ms

Backlighting	LED	LED
Composite Video Inputs	2 (BNC)	2 (BNC)
VGA Video Inputs	1	1
HDMI® Video Inputs	1	1
Composite Video Outputs	1 (BNC)	1 (BNC)
Audio Input	13.5mm TRS	13.5mm TRS
Internal Speakers	none	none
Touchscreen Technology	Resistive 5-wire touch	Resistive 5-wire touch
Interface	USB	USB
Transparency	≥ 78%	≥ 78%
Useful Life	35 million	35 million
Compatible OS	All	All
Video System Compatibility	PAL, NTSC, SECAM	PAL, NTSC, SECAM
Menu Languages	English, Chinese	English, Chinese
Input Power	12 VDC, 3A	12 VDC, 3A
AC Adapter Input Power	100 ~ 240 VAC, 50/60 Hz	100 ~ 240 VAC, 50/60 Hz
Max Power Consumption	≤ 25 watts	≤ 25 watts
Standby Power Consumption	< 1 watt	< 1 watt
Operating Temperature	+14 ~ +140°F (-10 ~ +60°C)	+14 ~ +140°F (-10 ~ +60°C)

TECHNICAL SUPPORT

Monoprice is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website www.monoprice.com during regular business hours, 7 days a week. You can also get assistance through email by sending a message to tech@monoprice.com

REGULATORY COMPLIANCE

Notice for FCC



This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular 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.

Notice for Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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