

# **ThinkVision**

Think Vision S27i-30

User Guide

Machine Type: 63DF-KAR4-WW



Product No.	
H23270FS0	
63DF-KAR4-WW	

Version 1 (September 2022)

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# **Safety Matters**

#### General Safety Principles

For tips on safe computer use, please go to:

http://www.lenovo.com/safety

Before installing this product, please read the safety matters.

Avant d'installer ce produit, lisez les consignes de securite.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφάλειας (safety information).

לפני שהתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítés előtt olvassa el a Biztonsági Tudnivalókat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

Antes de instalar este produto, leia as Informações de Segurança.

Läs säkerhetsinformationen innan du installerar den här produkten.

Prije instaliranja ovog produkta obavezno pročitajte Sigurnosna Upute.

Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się z książka"Informacje dotyczące

bezpieczeństwa" (Safety Information).

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност

Pred inštaláciou tohto zariadenia si prečítajte Bezpečnostné predpisy.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Ennen kuin asennat tämän tuotteen, lue turvaohjeet.

Před instalací tohoto produktu si přečtěte příslušné bezpečnostní instrukcí.

在安装本产品之前,请仔细阅读 Safety Information (安全信息)。

安装本产品之前,请先阅读「安全信息」。

Before installing this product, please read the Safety Information carefully.

Bacalah informasi keselamatan dengan saksama sebelum memasang produk ini.

Vă rugăm să cititi cu atentie informatiile de sigurantă înainte de a instala acest produs.

Pažljivo pročitajte bezbednosne informacije pre nego što instalirate ovaj proizvod.

โปรดอ่านข้อมูลความปลอดภัยอย่างละเอียดก่อนติดตั้งผลิตภัณฑ์นี้

Bu ürünü kurmadan önce lütfen güvenlik bilgilerini dikkatlice okuyun.

Будь ласка, уважно прочитайте інформацію про безпеку перед встановленням цього виробу.

يجب قراءة إرشادات السلامة قبل تشغيل هذا المنتج.

Læse sikkerhedsforskrifterne, før du installerer dette produkt.

制品の设置の前に、安全情报をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오。

Antes de instalar este producto lea la Información de seguridad.

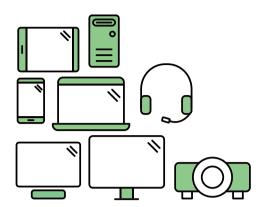
Antes de instalar este produto, leia as Informações de Segurança.

Перед установкой продукта прочтите инструкции по безопасности.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

Note: This equipment is not suitable for use in locations where children are likely to be present.





# Say hello to a more sustainable product

IT products are associated with a wide range of sustainability risks throughout their life cycle. Human rights violations are common in the factories. Harmful substances are used both in products and their manufacture. Products can often have a short lifespan because of poor ergonomics, low quality and when they are not able to be repaired or upgraded.

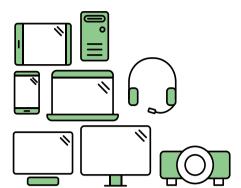
**This product is a better choice**. It meets all the criteria in TCO Certified, the world's most comprehensive sustainability certification for IT products. Thank you for making a responsible product choice, that help drive progress towards a more sustainable future!

Criteria in TCO Certified have a life-cycle perspective and balance environmental and social responsibility. Conformity is verified by independent and approved verifiers that specialize in IT products, social responsibility or other sustainability issues. Verification is done both before and after the certificate is issued, covering the entire validity period. The process also includes ensuring that corrective actions are implemented in all cases of factory non-conformities. And last but not least, to make sure that the certification and independent verification is accurate, both TCO Certified and the verifiers are reviewed regularly.

# Want to know more?

Read information about TCO Certified, full criteria documents, news and updates at **tcocertified.com.** On the website you'll also find our Product Finder, which presents a complete, searchable listing of certified products.





Toward sustainable IT products

# Say hello to a more sustainable product

IT products are associated with a wide range of sustainability risks throughout their life cycle. Human rights violations occur in the supply chain. Harmful substances are used both in products and their manufacture. Products can often have a short lifespan because of poor ergonomics, low quality and when they are not able to be repaired or upgraded.

This product is a better choice. It meets all the criteria in TCO Certified, the world's most comprehensive sustainability certification for IT products. Additionally, it fulfills the requirements of TCO Certified Edge, the supplemental certification that recognizes leading-edge products that exceed typical performance in a particular sustainability attribute. At our Product Finder (tcocertified.com/product-finder) you can find out which TCO Certified Edge criterion or criteria this product meets.

Criteria in TCO Certified have a life-cycle perspective and balance environmental and social responsibility. Compliance is verified by independent verification organizations that specialize in IT products, social responsibility or other sustainability issues. Verification is done both before and after the certificate is issued, covering the entire validity period. The process also includes ensuring that corrective actions are implemented in all cases of factory non-conformities.

Thank you for making a responsible product choice, that help drive progress towards a more sustainable future!

# Want to know more?

Read information about TCO Certified, full criteria documents, news and updates at **tcocertified.com.** On the website you'll also find our Product Finder, which presents a complete, searchable listing of certified products.

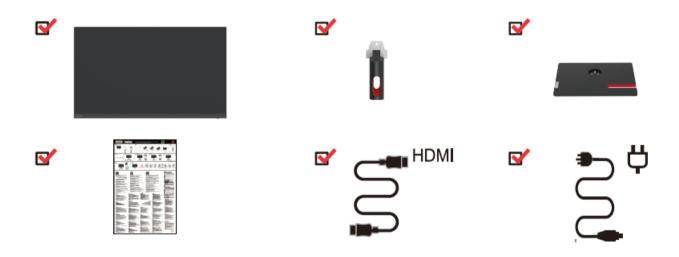
# **Chapter 1. New Member Guide**

This user guide provides users with detailed operating instructions. For a quick overview of the instructions, please refer to the Setup coloring page for brief information.

#### **Items List**

The following items should be included in the package of this product:

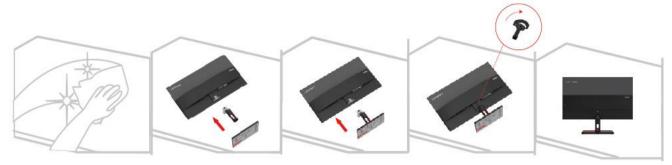
- ■Quick Start Guide
- **■**Display
- ■Stand (Screw\*1PCS)
- ■Base
- ■Power Cord
- ■Signal Line (Subject to the practice)



#### **Precautions For Use**

To set up your display, please refer to the following illustration.

Note: Do not touch the screen area of the display. The screen area is a glass product and can be easily damaged by friction or pressure.



- 1. Place the display screen down on a soft flat surface.
- 2. Align the stand with the base, and then tighten the screws clockwise.
- 3. Insert the installed stand base into the corresponding position on the back of the monitor, and then tighten the screws clockwise.

Note: To install the VESA mount, see "Wall-mounted (optional)" on pages 2-9.

#### **Product Overview**

This section describes how to adjust the display position, set the user controls, and use the cable lock slot.

Adjustment Types

Tilt

See the figure below for an example of the tilt range.



# **Display Control**

Different functions can be used through the key controls on the panel frame.



For information on how to use these key controls, see "Adjusting the Display Image" on pages 2-3.

# **Kensington anti-theft lock**

Your display is equipped with a Kensington anti-theft lock, which is located on the back of the display.



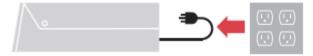
# **Set Up the Display**

This section describes how to set up the display.

#### **Connecting and Powering on the Display**

Note: Before performing this procedure, be sure to read the "Safety Matters" on page iv.

1. Turn off the power to the computer and all connected devices, and then unplug the computer's power cord.

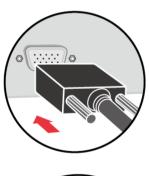


2. Connect the cables as shown in the figure below.



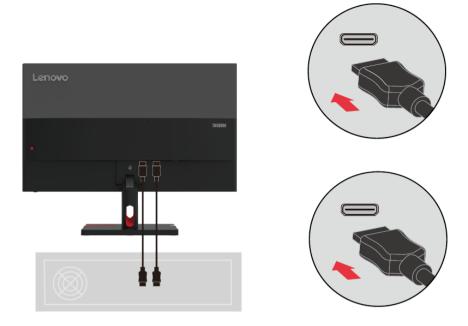
3. For computers with VGA connections.





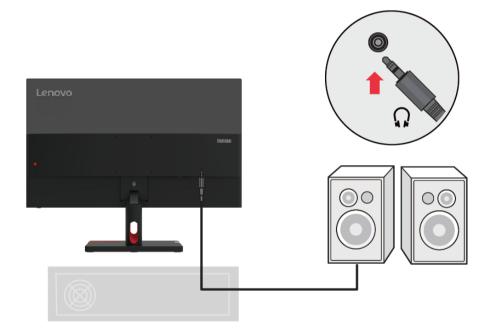


4. For computers with HDMI1/2 connections.



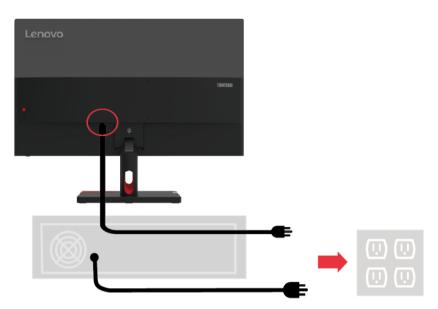
5. Connect the audio cable of the speaker and the audio jack of the monitor to transmit the audio source from HDMI.

Note: HDMI mode audio output.



6. Plug the power cord into the display, and then plug the display power cord and computer cord into a grounded power outlet.

Note: A certified power cord must be used for this equipment. The installation and/o r equipment regulations of the country concerned should be taken into account. The certified power cable used should not be lighter than the normal PVC cable (marked H05VV-F 3G 0.75mm2 or H05VVH2-F2 3G 0.75mm2) as specified in IEC 60227. In addition, synthetic rubber cords as specified in IEC 60245 (marked H05RR-F 3G 0.75mm2) should be used.



7. Use cable clamps when connecting cables



8. Turn on the power to the display and computer.



9. When you install the display driver, download the driver that corresponds to your display model from the Lenovo website at http://support.lenovo.com/docs/S27i\_30. To install the driver, see the "Manually Install the Driver for the Display" section on pages 3-5.



# Chapter 2. Adjusting and Using the Display

This section describes how to adjust and use this display.

#### **Comfort and Assistance Functions**

Good ergonomic designs are important for the comfortable use of your personal computer. Your workplace and the equipment you use should be arranged appropriately for your personal needs and the type of work you do. In addition, healthy work habits can help you achieve optimal efficiency and comfort when using a computer.

#### **Arrange Your Working Area**

Use a work surface of the right height and enough work area so that you can work comfortably. Arrange your work area according to the way you use materials and equipment. Keep frequently used materials neatly organized in your work area, and place frequently used items (such as a computer mouse or telephone) in an easily accessible location. The placement and setup of equipment are very important to your work posture. The following topics describe how to optimize equipment settings to achieve and maintain a good working posture.

# Placing and Viewing the Display

For comfortable viewing of the display, the following factors should be considered when placing and adjusting computer displays:

- **Viewing Distance**: The recommended viewing distance between your eyes and the display screen is 1.5X the screen diagonal. Solutions to meet this required distance in a small office include: keeping the desk a certain distance from the wall or partition to allow space for the display, using a flat panel or smaller display and keeping the display in the corner of the desk, or placing the keyboard in an adjustable drawer board to create a deeper work surface.
- **Display Height**: If your display is not height-adjustable, place your head and neck in a natural, comfortable (vertical or upright) position. If your display is not height-adjustable, you can place a book or other sturdy object under the base of the display to achieve the desired height. The general rule is to sit comfortably with the top of the display screen at eye level or slightly lower. However, it is important to optimize the height of the display so that the relative position between the eyes and the center of the display provides the right visual distance and a comfortable viewing experience when the eye muscles are relaxed.
- **Tilt**: Adjusting the tilt of your display optimizes the appearance of your screen content and keeps your head and neck in the best possible position.
- **Regular Location**: Place the display in such a way that overhead lighting or nearby windows do not cause glare or reflection on the screen.

Here are some additional tips for comfortable viewing of your display:

- Use adequate lighting for the type of work you do.
- Use display brightness, contrast, and image controls (if available) to optimize the image on the screen for your visual needs.
- Keep the display screen clean so that you can see the content clearly.

Long periods of focused visual activity tend to strain the eyes. Be sure to periodically move away from the display screen and gaze at a distant object to relax your eye muscles. If you have any questions about eye strain or visual discomfort, consult vision care professional for advice.

# **Tips on Healthy Work Habits**

The following is a summary of some important factors that are useful to keep you comfortable and productive while using your computer.

- Good posture comes from equipment placement: The layout of your work area and the placement of your computer equipment can have a significant impact on your posture while using the computer. Be sure to follow the tips listed in "Arrange Your Working Area" on pages 2-1 to optimize the placement and orientation of your equipment so you can maintain comfortable posture and efficiency. In addition, be sure to use the adjustment features of your computer components and office furniture to meet your needs, and adjust them over time as your needs change.
- Slight changes in posture help keep you comfortable: the longer you sit in front of a computer, the more important it becomes to pay attention to your work posture. Avoid maintaining one posture for long periods. Regular slight changes in posture can help prevent possible discomfort. Use the adjustment function provided by office furniture or equipment to adapt to changes in posture.
- Regular short breaks help ensure healthy computing: Because computing is primarily a static activity, it is especially important to take short breaks during the workday. Take regular breaks to stand in front of your work area, stretch your limbs, walk around or have a drink, or otherwise take a short break from using the computer. Taking short breaks during work allows for changes in body posture that can help you stay comfortable and productive while working.

#### **Accessibility Information**

Lenovo is committed to providing greater access to information and technology for people with disabilities. With assistive technologies, users with disabilities can access information most appropriate for their specific situation. Some of these technologies are already available in the operating system; others can be purchased through resellers or by visiting the following website: https://lenovo.ssbbartgroup.com

Chapter 2. Adjusting and Using the Display 2-2

# **Adjusting the Display Image**

This section describes the functions of the user controls used to adjust the display image.

# Using Direct Access Controls

When On Screen Display (OSD) is not displayed, you can use direct access controls.

Icon	Control	Description
ψ	Power	Power on / off
	Menu/Confirm	Open the OSD Menu Enter the next level menu. Press and hold for 10s to lock or unlock the menu.
$\triangleright$	Right	Perform the corresponding shortcut function set in the OSD menu Quick Settings.  In the OSD menu, enter the next level menu.
	Left	When OSD menu is opened, it serves as a return/exit
Δ	Up	Perform the corresponding shortcut functions set in the OSD menu Quick Settings.  When OSD menu is opened, it serves to move the cursor upwards.  In the adjustment bar, it acts as a value increase
$\bar{\nabla}$	Down	Perform the corresponding shortcut functions set in the OSD menu Quick Settings.  When OSD menu is opened, it serves to move the cursor downwards.  In the adjustment bar, it acts as a value reduction
1-€- 2	Signal source selection	Signal Source Selection Shortcut Keys Press and hold for 10 seconds to enable or disable the DDC-CI function

# Use the On-Screen Display (OSD) Control

When adjusting the settings, you can view the user controls through the OSD.



#### Use controls:

- 1. Press to open the OSD Main Menu.
- 2. Use ^ or v to move between icons. Select an icon and press to access the feature. If there is a submenu, use ^ or v to move between options, and then press to select the feature. Use ^ or v to make adjustments, and then press to save.
  - 3. Press to exit the submenu in sequence, and then exit the OSD.
- 4. When OSD is not displayed, press → and hold for 10 seconds to lock the OSD. In this way, you can prevent accidental adjustment of the OSD. Press → and hold for 10 seconds to unlock the OSD for OSD adjustment.
- 5. DDC/CI is enabled by default. Press and hold for 10 seconds to disable/enable the DDC/CI function. The message "DDC/CI disable (DDC/CI enable)" is displayed on the screen.



ENERGY STAR is a consumer electronics energy efficiency program led by the U.S. government. It was launched at the Department of Energy to reduce energy consumption and greenhouse gas emissions. The ENERGY STAR logo is a symbol of energy efficiency and environmental protection. It has improved the concept of energy efficiency among consumers and manufacturers, and effectively guided the market. The "ENERGY STAR Regulations" improve energy efficiency and reduce air pollution through the use of more energy-efficient equipment in homes, offices, and factories. One way to achieve this goal is to use management to reduce energy consumption when products are not in use. The default settings of the monitor are ENERGY STAR qualified. Any changes made by the user to more features and functions can increase power consumption, which would exceed the limits of the ENERGY STAR standard. If the user changes options related to energy efficiency while in use, such as brightness, color mode, etc., selecting Reset Factory All or selecting the ENERGY STAR option will restore energy consumption to ENERGY STAR-compliant energy efficiency.

For more information, see (www.enercystar.gov/products). All ENERGY STAR products will be posted online and directly accessible to governments, public agencies, and consumers.

Table 2-1. OSD Functions

Main Menu	Sub-Menu	Instruction	<b>Controls and Adjustment</b>
	Brightness	Adjust the overall brightness of the	
	Adjustment	screen	
	Contrast Adjustment	Adjusts the degree of difference between	
		bright and dark areas	
	Volume	Volume adjustment	
	D : C :	On	
	Dynamic Contrast	Off	
-O-		Off	
~	D ' D		-
Display	Dynamic Response	Normal	-
Control		Extremely	
		sRGB	-
		Standard Color Temperature	-
	Color Mode	Warm Color Temperature	-
	Color Mode	Cool Color Temperature	-
		User	
		Low Blue Light	
		Brightness Adjustment	
		Contrast Adjustment	
	Right Key	Color Mode	
		Auto Settings	
		Language	
		Brightness Adjustment	
_M		Contrast Adjustment	Users can choose from
-	Up Key	Color Mode	these shortcuts
Quick Setup		Auto Settings	these shortcuts
		Language	
		Brightness Adjustment	-
	D W	Contrast Adjustment	-
	Down Key	Color Mode	-
		Auto Settings	
		Language Automatic	
			-
		VGA	Signal source switch
- E-	Input Signal	HDMI1	
		HDMI2	
Port Settings		FreeSync	Auto
			Off
	Image Position	Horizontal position	
	Adjustment	Vertical position	Under the VGA signal
	Image Settings	Automatic setting	- Chider the VOIT signal
		Manual setting	
	Button Repetition	Default value	
9782	Rate	Slow	
Advanced Settings	Rate	Off	
		Full Screen	
	Aspect Ratio	Original Aspect Ratio	Non-16:9 signal adjustable
		On	
	LED Indicator	Off	-
	Power Button Lock	On	-
		Off	
		Product Name	
	Information	S27i-30	
		Refresh rate	
		100Hz	

		Firmware LEN0.0 Serial No. English	
		Français	<u> </u> -
		Italiano	₫
		Simplified Chinese	
<b>n</b> =	Languaga	Español	
85	Language	Japanese	
Menu Settings		Deutsch	
Triena Settings		Русский	
		ไทย	
		Українська	
	OSD display time setting	5-60	Set the OSD display time
	OSD position	(0-100,0-100)	Setting the OSD Location
	Transparency	0-100	Setting OSD Transparency
	Restore factory	Factory Setup	Restore factory settings except for language
	settings	No	

# **Low Blue Light**

Concerns on blue light affecting eye health have risen over the years. Blue light have wavelength between 300 nm to 500 nm. The monitors under default setting modereduce blue light emissions. The monitors achieve the requirement of Low blue Light (Hardware Solution).

# **Select Supported Display Modes**

The display mode used by the display is controlled by the computer. Therefore, you should refer to the computer's documentation for detailed information on how to change the display mode.

When the display mode is changed, the image size, position, and shape may change. This is normal and the image can be readjusted using the automatic image settings and image controls.

Unlike CRT displays, which require high refresh rates to minimize flicker, LCD or flat panel technology is inherently flicker-free.

Note: If the system has previously been used in conjunction with a CRT display and is currently configured for a display mode outside the range of that display, you may need to temporarily reconnect the CRT display until the system has been reconfigured; it is best to set it to 1920x1080 (100Hz), the normal display mode.

The display modes shown below are factory optimized.

Table 2-2. Display modes set by the manufacturer

Timing sequence	Refresh rate	Signal Channel
640×480	60Hz	
640×480	72Hz	
640×480	75Hz	
720×400	70Hz	
800×600	56Hz	
800×600	60Hz	
800×600	72Hz	
800×600	75Hz	
832×624	75Hz	
1024×768	60Hz	VGA/HDMI
1024×768	70Hz	
1024×768	75Hz	
1152×864	75Hz	
1280×1024	60Hz	
1280×1024	70Hz	
1280×1024	75Hz	
1440×900	60Hz	
1600×900	60Hz	
1680×1050	60Hz	
1920×1080	60Hz	
1366×768	60Hz	
1600×900	75Hz	HDMI
1920×1080	75Hz	
1920×1080	100Hz	

# **Understanding Power Management**

The power management function is activated when the computer detects that the mouse or keyboard has not been used for a user-defined time interval. There are several states as described in the table below. For best performance, it is best to turn off the display at the end of the day, or when it is not in use for a longer period during the day.

Table 2-3. Power Indicators

Status	Power indicator	Screen	Recovery Operation
On	White	Normal	
Standby/Hang up	Amber	Blank	Press any key or move the mouse. The response time may be slightly delayed. Note: When there is no image output to the display, it will also enter standby mode.
Off	Off	Blank	Press the power button to power on. There may be a slight delay before the image is redisplayed.

#### Power Management Mode

VESA Mode	Horizontal Synchronization		Video		Power consumption
Normal Operation	Active	Active	Events		36W (Max)* 19.5W (typical)
Active-Off Mode	Inactive	Inactive	Close	Amber	Less than 0.5W
Off	-	_	-	Off	Less than 0.3W

ENERCY STAR	Power consumption
P <sub>Ħ</sub>	15.7W
E <sub>TEC</sub>	49.1kWh

<sup>\*</sup> Maximum power consumption for maximum brightness.

This document is for reference only and reflects laboratory performance. Your product performance will vary depending on the software, components, and peripherals you order, and it should not be your responsibility to update this information. Accordingly, customers should not rely on this information to make decisions regarding electronic fault tolerance or similar items. We make no express or implied warranties as to accuracy or completeness.

# **Maintaining the Display**

Always turn off the power to the display before performing any maintenance work on the display.

#### Do not:

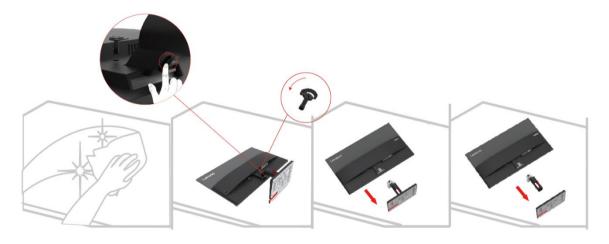
- Let water or liquids spill onto the display.
- Use solvents or abrasive substances.
- Use flammable cleaning materials to clean the display or any other electronic device.
- Touch the screen area of the display with sharp or abrasive objects. Such contact may cause permanent damage to the screen.
- Use any cleaner that contains an anti-static solution or similar additive. Otherwise, the coating of the screen area may be damaged.

#### Be sure to:

- Wipe the case and screen gently with a soft cloth lightly dampened in water.
- Use a damp cloth and a little flexible cleaner to remove fingerprints and grease.

# Remove the Display Base and Support Arm

- Step 1: Place the monitor on a flat surface.
- Step 2: Loosen the screws and press and hold the quick release button on the support arm to separate the support arm from the monitor.
- Step 3: Loosen the screws to separate the base from the support arm.



# **Wall-mounted (optional)**

Refer to the instructions attached with the base assembly. To convert the LCD from a desktop to a wall mount, perform the following steps:

- Step 1: Make sure the power button is off and unplug the power cord.
- Step 2: Place the LCD face down on a towel or blanket.



Step 3: Remove the base and stand from the display, see "Removing the Display Base and Support Arm" on pages 2-9.



Step 4: Install the assembly bracket for the VESA compatible wall mount. (100mm x 100mm distance), VESA assembly screws M4 x 10 mm.



Step 5: Mount the LCD to the wall following the instructions for the wall mount. Only the lightest weight/weight-bearing wall mount from the UL list should be used: 8kg

Note: When using the flexible arm, the display should not be tilted downward by more than 5 degrees.

# **Chapter 3. Reference Information**

This section provides display specifications, instructions for manual installation of the display driver, and troubleshooting information.

# **Display Specifications**

Table 3-1. Display Specifications - Model H23270FS0

Size	Thickness	184.9mm (7.28 in.)
	Height	475.0mm (18.70 in.)
	Width	612.3mm (24.11 in.)
Support Arm	Tilt	Range: -5°~22°
VESA mount	Support	100mm x 100mm (3.94 in. x 3.94 in.)
Image	Viewable image size	685.9mm (27 in.)
	Maximum height	336.312mm (13.24 in.)
	Maximum width	597.888mm (23.53 in.)
	Pixel pitch	0.3114(H) x 0.3114(V) mm
Power input	Supply voltage Max. power supply current	100-240V AC 1.2A
Power Consumption	Normal operation	<36 W (max )
Note: The power		<19.5 W (standard)
consumption value is the power	Standby/Hang Up	<0.5 W
consumption of both the display and the power supply.	Off Note: No USB/camera/external speakers	<0.3 W
Video input (analog)	Interface	VGA
	Input Signal	Analog direct drive, 75 Ohm 0.7V
	Horizontal Addressing Capability	1920 pixels (max)
	Vertical Addressing Capability	1080 pixels (max)
	Clock frequency	170 MHz (max)
HDMI	Interface	HDMI
	Input Signals	VESA TMDS (Panel Link <sup>TM</sup> )/HDMI
	Horizontal Addressing Capability	1920 pixels (max)
	Vertical Addressing Capability	1080 pixels (max)
	Clock frequency	250 MHz (max)
Communication	VESA DDC/CI	

Supported display	Horizontal frequency	30 kHz - 120 kHz	
modes	Vertical frequency	48 Hz - 100 Hz	
	Self-resolution	1920 x 1080 @ 100 Hz	
Temperature	At working time	0° to 40°C (32°F to 104°F)	
	During storage	-20° to 60°C (-4°F to 140°F)	
	During transport	-20° to 60°C (-4°F to 140°F)	
Humidity	At working time	10% to 80% (non-condensing)	
	During storage	5% to 95% (non-condensing)	
	During transport	5% to 95% (non-condensing)	

# **Troubleshooting**

If you encounter problems setting up or using your display, you may be able to solve the problem. Before contacting your dealer or Lenovo, please try the following suggested actions depending on the problem you are experiencing.

Table 3-2. Troubleshooting

Problem	Possible Causes	Recommended Operations	Refer to
"Out of Range" is displayed on the screen and the power indicator flashes white.	This display does not support the display mode set by the system	1 2 5	"Select Support Display Mode" on pages 2-7
Poor image quality	The video signal cable is not well connected to the display or the system.	Make sure the signal cable is securely plugged into the system and display.	"Connecting and Powering on the Display" on pages 1-4
	The color setting may be incorrect.	Select another color setting in the OSD menu.	"Adjusting the Display Image" on pages 2-3
	The automatic image setting function is not performed.	Perform automatic image setup.	"Adjusting the Display Image" on pages 2-3
The power indicator does not light up and no images are displayed.	<ul> <li>The display's power switch is not turned on.</li> <li>The power cord is loose or not connected.</li> <li>The outlet has no electricity.</li> </ul>	<ul> <li>•Make sure the power cord is well connected.</li> <li>•Make sure the outlet has power.</li> <li>•Power on the display.</li> <li>•Change the power cord.</li> <li>•Change the power outlet.</li> </ul>	"Connecting and Powering on the Display" on pages 1-4
The screen is blank and the power indicator shows amber.	The display is in standby/hang-up mode		"Understanding Power Management" on pages 2-8
The power indicator shows amber and no images are displayed	Video signal cable is loose or disconnected from the system or display.	•	"Connecting and Powering on the Display" on pages 1-4
	The display brightness and contrast are at their lowest settings.	_	"Adjusting the Display Image" on pages 2-3
One or more pixels change color	This is an inherent characteristic of LCD technology and is not an LCD defect.	0.1	"Appendix A. Service and Support" on pages A-1

Problem	Possible Causes	Recommended Operations	Refer to
•Blurred lines or images in text •Horizontal or vertical lines are present in the image.	•Image settings are not optimized •The system's display property settings are not optimized.		"Adjusting the Display Image" on pages 2-3
			"Select Support Display Mode" on pages 2-7
		When using its resolution, adjusting the Dots Per Inch (DPI, dots per inch) setting on the system can further improve it.	See the Advanced section of System Display Properties.

#### **Manual Image Settings**

If the automatic picture setting does not provide a picture you are satisfied with, you can perform a manual picture setting. (VGA [Analog] only)

Note: Turn on the power to the display and wait for about 15 minutes to allow the display to warm up.

- 1. Press to open the OSD menu.
- 2. Use ^ or ∨ to select "Advanced Settings", and press ...
- 3. Use ^ or ∨ to select "Image Settings" and press ← to confirm, then press "Auto Settings" and then press to access.
- 4. Press ^ or v to select "Manual setting", then press ← to select Clock or Phase, and then use ^ or v to adjust the value.
  - Clock: (pixel frequency) adjusts the number of pixels that can be scanned in one horizontal scan. If the frequency is incorrect, vertical bars may appear on the screen and the picture width may be incorrect.
  - Phase: adjusts the phase of the pixel clock signal. When the phase is not adjusted correctly, horizontal disturbances may appear in the bright picture.
- 5. When the image no longer looks distorted, press Enter to save the Clock and Phase adjustments.
- 6. Press to exit the OSD menu.

# Manually Install the Driver for the Display

Here are the steps to manually install the display driver in Microsoft Windows 10 and Microsoft Windows 11.

#### Installing the display driver in Windows 10

To use the Microsoft Windows 10 Plug and Play feature, do the following steps:

- 1. Turn off the power to the computer and all connected devices.
- 2. Make sure the display is properly connected.
- 3. Power on the display, and then power on the system unit. Let the computer start the Windows 7 operating system.
- 4. Find the corresponding display driver from the Lenovo website http://support.lenovo.com.cn/ and download it to the PC to which the display is connected (e.g. desktop).
- 5. Open the Display Properties window as follows: Click the Start, Control Panel, Hardware, and Sound icons, and then click the Display icon.
- 6. Click the Change the display settings tab.
- 7. Click the Advanced Settings icon.
- 8. Click the Display tab.
- 9. Click the Properties button.
- 10. Click the Driver tab.
- 11. Click Update Driver, and then click "Browse the computer to find the driver program".
- 12. Select "Pick from the list of device driver programs on the computer".
- 13. Click the Hard Disk button. Click the Browse button to browse and open the following path: X:\Monitor Drivers\Windows 7

(where X means "the folder where the downloaded driver is located" (e.g. desktop)).

- 14. Select the "lenS27i-30.inf" file and click the Open button. Click the OK button.
- 15. In the new window, select LEN S27i-30, and then click Next.
- 16. When the installation is complete, delete all downloaded files and close all windows.
- 17. Reboot the system. The system will automatically select the maximum refresh rate and the corresponding color matching profile.

#### Installing the display driver in Windows 11

To use the Microsoft Windows 11 Plug and Play feature, do the following steps:

- 1. Turn off the power to the computer and all connected devices.
- 2. Make sure the display is properly connected.
- 3. Power on the display, and then power on the system unit. Let the computer start the Windows 10 operating system.
- 4. Find the corresponding display driver from the Lenovo website http://support.lenovo.com.cn/ and download it to the PC to which the display is connected (e.g. desktop).
- 5. Open the Display Properties window as follows: Click the Start, Control Panel, Hardware, and Sound icons, and then click the Display icon.
- 6. Click the Change the display settings tab.
- 7. Click the Advanced Settings icon.
- 8. Click the Display tab.
- 9. Click the Properties button.
- 10. Click the Driver tab.
- 11. Click Update Driver, and then click "Browse the computer to find the driver program".
- 12. Select "Pick from the list of device driver programs on the computer".
- 13. Click the Hard Disk button. Click the Browse button to browse and open the following path: X:\Monitor Drivers\Windows 10

(where X means "the folder where the downloaded driver is located" (e.g. desktop)).

- 14. Select the "lenS27i-30.inf" file and click the Open button. Click the OK button.
- 15. In the new window, select LEN S27i-30, and then click Next.
- 16. When the installation is complete, delete all downloaded files and close all windows.
- 17. Reboot the system. The system will automatically select the maximum refresh rate and the corresponding color matching profile.

Note: Unlike CRTs, LCD displays do not improve display quality by increasing the refresh rate. Lenovo recommends using a 1920x1080@100Hz refresh rate.

# Get further help

If you are still unable to resolve the issue, please contact Lenovo Support. For more information on contacting the Support Center, see "Appendix A. Service and Support" on page A-1.

# **Appendix A. Services and Support**

# **Telephone Technical Support**

Country or Region	Telephone Number	
Argentina	0800-666-0011	
	(Spanish, English)	
Australia	1-800-041-267 (English)	
Austria	0810-100-65 (For local rate) (German)	
Belgium	Warranty service and support: 02-339-36-11 (Dutch, French)	
Bolivia	0800-10-0189 (Spanish)	
Brazil	Calls made from within the Sao Paulo region: 11-3889-8986 Calls made from outside the Sao Paulo region: 0800-701-4815 (Portuguese)	
Brunei Darussalam	Dial 800-1111 (English)	
Canada	1-800-565-3344 (English, French)	
Chile	800-361-213 (Spanish)	
China	400-990-8888	
China	(852) 3516-8977	
(Hong Kong S.A.R.)	(Cantonese, English, Mandarin)	
China	0800-807 / (852) 3071-3559	
(Macau S.A.R.)	(Cantonese, English, Mandarin)	
Colombia	1-800-912-3021 (Spanish)	
Costa Rica	0-800-011-1029 (Spanish)	
Croatia	385-1-3033-120 (Croation)	
Cyprus	800-92537 (Greek)	
Czech Republic	800-353-637 (Czech)	
Denmark	Warranty service and support: 7010-5150 (Danish)	
Dominican Republic	1-866-434-2080 (Spanish)	
Ecuador	1-800-426911-OPCION 4 (Spanish)	
Egypt	Primary: 0800-0000-850 Secondary: 0800-0000-744 (Arabic,English)	
El Salvador	800-6264 (Spanish)	
Estonia	372-66-0-800 (Estonian, Russian, English)	
Finland	Warranty service and support: +358-800-1-4260 (Finnish)	
France	Warranty service and support: 0810-631-213 (hardware) (French)	
Germany	Warranty service and support: 0800-500-4618 (toll-free) (German)	
Greece	Lenovo Business Partner (Greek)	
Guatemala	Dial 999-9190, wait for operator, and request to reach 877-404-9661 (Spanish)	

Country or Region	Telephone Number		
Honduras	Dial 800-0123 (Spanish)		
Hungary	+36-13-825-716 (English, Hungarian)		
India	Primary: 1800-419-4666 (Tata) Secondary: 1800-3000-8465 (Reliance) Email: commercialts@lenovo.com (English and Hindi)		
Indonesia	1-803-442-425 62 213-002-1090 (Standard Charges Apply) (English, Bahasa Indonesia)		
Ireland	Warranty service and support: 01-881-1444 (English)		
Israel	Givat Shmuel Service Center: +972-3-531-3900 (Hebrew, English)		
Italy	Warranty service and support: +39-800-820094 (Italian)		
Japan	0120-000-817 (Japanese, English)		
Kazakhstan	77-273-231-427 (Standard Charges Apply) (Russian, English)		
Korea	080-513-0880 (Collect call) 02-3483-2829 (Toll Call) (Korean)		
Latvia	371-6707-360 (Latvian, Russian, English)		
Lithuania	370 5278 6602 (Italian, Russian, English )		
Luxembourg	ThinkServer and ThinkStation: 352-360-385-343 ThinkCentre and ThinkPad: 352-360-385-222 (French)		
Malaysia	1-800-88-0013 03-7724-8023 (Standard Charges Apply) (English)		
Malta	356-21-445-566 (English, Italian, Maltese Arabic)		
Mexico	001-866-434-2080 (Spanish)		
Netherlands	020-513-3939 (Dutch)		
New Zealand	0508-770-506 (English)		
Nicaragua	001-800-220-2282 (Spanish)		
Norway	8152-1550 (Norwegian)		
Panama	Lenovo Customer Support Center: 001-866-434 (toll-free) (Spanish)		

Country or Region	Telephone Number
Peru	0-800-50-866 OPCION 2 (Spanish)
Philippines	1-800-8908-6454 (GLOBE subscribers) 1-800-1441-0719 (PLDT subscribers) (Tagalog, English)
Poland	Laptops and tablets branded with logo Think: 48-22-273-9777 ThinkStation and ThinkServer: 48-22-878-6999 (Polish, English)
Portugal	808-225-115 (Standard Charges Apply) (Portuguese)
Romania	4-021-224-4015 (Romanian)
Russia	+7-499-705-6204 +7-495-240-8558 (Standard Charges Apply) (Russian)
Singapore	1-800-415-5529 6818-5315 (Standard Charges Apply) (English, Mandarin, Bahasa Malaysia)
Slovakia	ThinkStation and ThinkServer: 421-2-4954-5555
Slovenia	386-1-2005-60 (Slovenian)
Spain	34-917-147-833 (Spanish)
Sri Lanka	9477-7357-123 (Sumathi Information systems) (English)
Sweden	Warranty service and support: 077-117-1040 (Swedish)
Switzerland	Warranty service and support: 0800-55-54-54 (German, French, Italian)
Taiwan	0800-000-702 (Mandarin)
Thailand	001-800-4415-734 (+662) 787-3067 (Standard Charges Apply) (Thai, English)
Turkiye	444-04-26 (Turkish)
United Kingdom	Standard warranty support: 03705-500-900 (local rate) Standard warranty support: 08705-500-900 (English)
United States	1-800-426-7378 (English)
Uruguay	000-411-005-6649 (Spanish)
Venezuela	0-800-100-2011 (Spanish)
Vietnam	120-11072 (Toll Free) 84-8-4458-1042 (Standard Charges Apply) (Vietnamese, English)

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