



# **Novo**Touch **User Manual** (LK9820i)

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# Safety Warnings and Precautions

Thank you for the purchase of the Vivitek NovoTouch interactive flat panel display. This iFPD has considered the personal safety factors into the design and this unit has thoroughly tested before delivery. However, improper installation and use may cause electric shock, fire or other hazards. To ensure its safe use, prolong its service life and delivery the best performance, please carefully read and understand all operating instructions and nameplate indications and observe the following safety precautions carefully before using the product, and keep this manual for future reference.

	<b>Warning</b>	May cause casualties
	Prohibited actions	

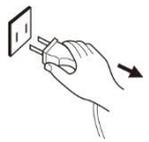
	<b>Caution</b>	May cause personal injury or property damage
	Imperative operations	

In case of:

- Power failure or unstable voltage;
- Abnormal sound or smell from the product;
- Damaged AC power cord;
- Product damage caused by fall, strike or impact; or
- Any liquid flowing or foreign object falling into the product.



Turn off the product immediately, disconnect the power plug from the power outlet and contact an authorized professional service center for repair.



- In case of any flammable gas leakage, do not connect/disconnect the power plug of this product or any other electrical appliance but close the leaky valve and open the doors and windows immediately.

 **Warning**

 Use AC 100-240V, 50/60Hz only.

 Cut off power supply before connecting/disconnecting any port cable.

 To avoid the risk of fall, damage and fire, do not fix the product to any unstable position.

 Do not place the product in any environment:

- that is too damp, hot, cold or dusty or exposed to direct sunlight;
- where flammables or explosives are stored or used;
- where combustible or corrosive gases are present;
- like bathroom and kitchen.

 Do not use any damaged or inappropriate power outlet. Keep a good contact between the power plug and the power outlet.

 Protect the power plug and the power outlet against dust and metal attachments.

 Do not damage the power cord:

- Do not remodel it;
- Do not put heavy objects on it;
- Keep it away from heat sources;
- Do not pull it when disconnecting the power plug.

**MHL function / HDMI output current: 500 MA**  
**USB 2.0 output current: 500 MA**  
**USB 3.0 output current: 900 MA**  
**OPS output power: 60W/90W (subject to the actual model)**

 **Warning**

 Parallel connecting too many power plugs to one power outlet may cause fire due to excessive power consumption.

 To avoid the risk of electric shock and fire, keep the product away from naked flames (like burning candles).

 Do not put any container with water on the product, or the water drops or splashes could cause electric shock or fire.

 To avoid the risk of short circuit, product damage and electric shock, do not insert any sharp object, metal or liquid into or allow them to contact the ventilation holes or signal connectors.

 To avoid the risk of electric shock, do not touch the power plug with wet hands.

 In case of rainstorm or lightning, disconnect the power plug and antenna plug immediately to protect the product against lightning stroke.

 To avoid the risk of electric shock and fire, do not disassemble the product in any way. All repairs should be referred to professional technicians.

 The ventilation holes in the housing are designed to protect the inside components against overheat and ensure their long-term reliable work. The product should be placed without blocking such ventilation holes.

**Operating Environment:**  
**Temperature: 0°C~40°C**  
**Humidity: 20%~80%**  
**Atmospheric pressure: 86kPa~104kPa**

**Storage Environment:**  
**Temperature: -10°C~60°C**  
*It is a normal phenomenon that water mist appears inside the screen during use of the product. This is because small water droplets are condensed on the inner face of the glass due to temperature difference between the outer and inner faces of the glass under the effect of humidity and temperature. Such water mist will disappear automatically some time after normal startup (generally within 24h). You can rest assured that the product can be used normally.*

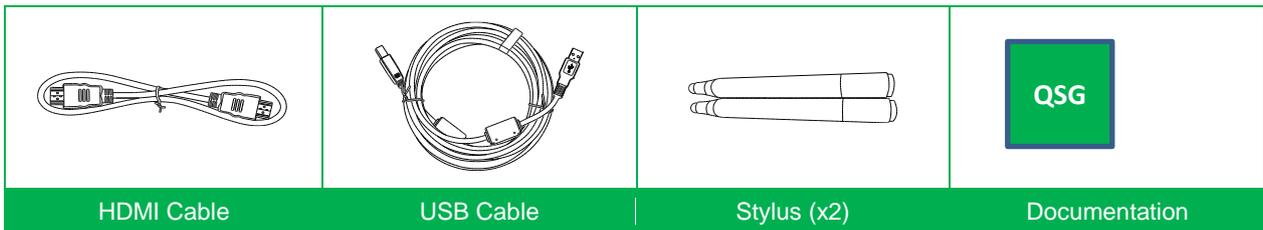
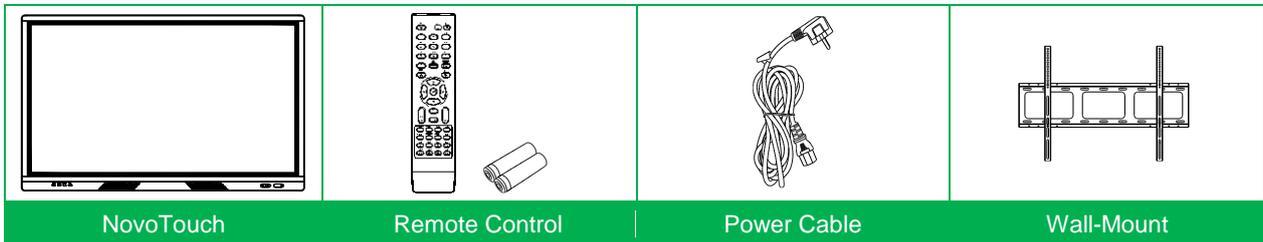
 **Caution**

- Do not allow children to climb onto the product.
- To avoid the risk of swallow, keep small accessories beyond the reach of children.
- Turn off the product and disconnect the power plug before leaving the product unused for a long time.
- Disconnect all cables before changing the position or angle of the product. To avoid the risk of fall, move the product slowly.
- Do not use hard objects to rub or strike the screen or twist or press it forcibly.
- To avoid the risk of dew and fault, do not use the product immediately after moving it from a low-temperature place to a higher-temperature place.
- Disconnect the power plug before cleaning the product. Clean it with a soft cloth without using any chemical reagent. Prevent any foreign object from falling into the product. Improper cleaning may cause damage to the appearance, erase the printed information or damage the components (if the cleaning solution or water flows into the product) and cause display failure.
- If the product keeps displaying one image or there is any still text or icon in a moving image during a long time, a ghost will be left on the screen and survive long after the product is turned off. Such fault is not covered by the warranty.
- Cut off power supply to the product by disconnecting the power plug.
- If the solution splashes onto your skin when the LCD screen is broken, rinse the skin with clean water for 15 minutes and seek medical advices.
- Hold four corners and the bottom instead of exerting pressure on the front panel when moving the product with hands.
- Use the product in a healthy way: use it under proper light; insufficient light or long continuous use may damage your vision.
- The power plug or appliance coupler acting as the breaker device should be easy to operate.
- Insert the power plug into the power outlet reliably. A loose connection may cause sparks or fire.

*All technical specifications provided in this manual and on the carton are subject to change without further notice. If there is any difference between this manual and any actual operation, the latter shall prevail.*

# Packing Contents

Ensure that all of the proper items are included with the display in the packaging. The items that should be included in the packaging are:



## Installation Tips

- Install the product near an AC power outlet with easy access.
- For the sake of safety, you are suggested to use a wall-mount bracket or base for the product.
- To avoid injury, the product must be placed on a stable horizontal surface or fixed to a solid wall.
- Wall mounting of the product must be performed by a professional technician. Improper installation may cause unsteadiness of the product.
- Do not put the product in a place that may be exposed to mechanical vibration.
- Do not place the product directly facing an air conditioner; otherwise dew can be formed on the panel inside the product, further resulting in fault.
- Do not place the product near any strong electromagnetic field; otherwise it will be subjected to electromagnetic interference and get damaged.

### Caution:

*If you have any problem in operating, debugging or connecting the product, contact your dealer. If the product has any fault, cut off power supply immediately and consult your dealer. As Class A information technology equipment, this product may produce RF disturbance when used in living environments. In such case, users will be required to take some proper measures.*

## Warning for Users

As Class A information technology equipment, this product may produce RF disturbance when used in living environments. In such case, users will be required to take some proper measures.

## Warning

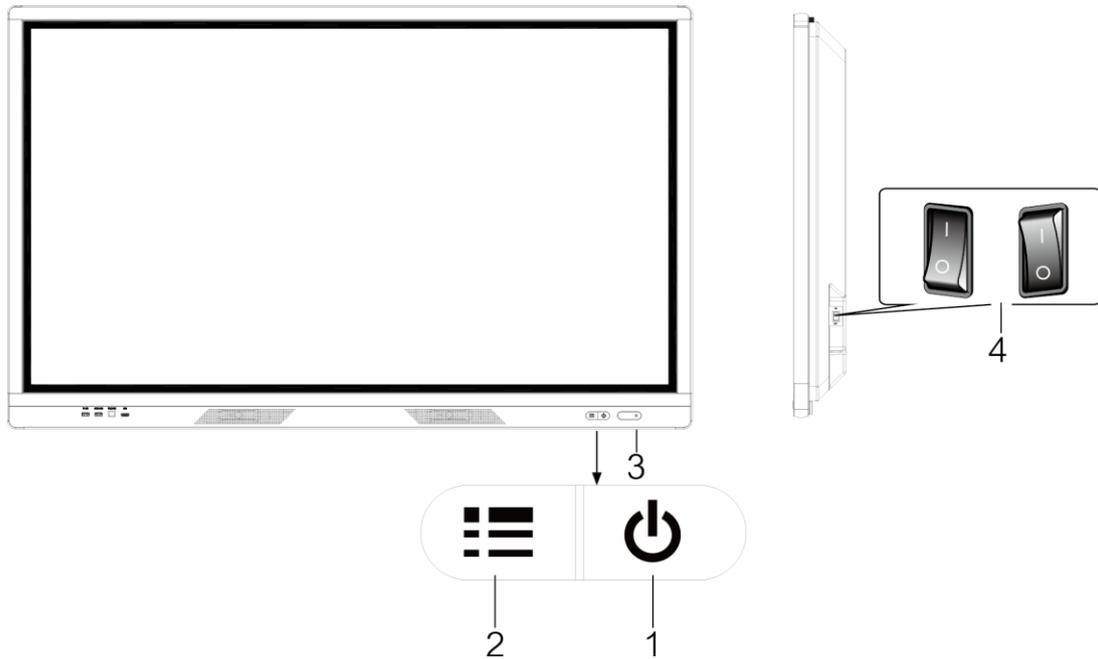
Overuse may damage your vision.

Precautions:

- (1) Take a 10-minute break every 30 minutes;
- (2) Children under the age of 2 years should avoid watching the screen; children who are over 2 years old can only watch the screen for less than 1 hour every day.

# Overview

## Control Buttons on the Front Panel

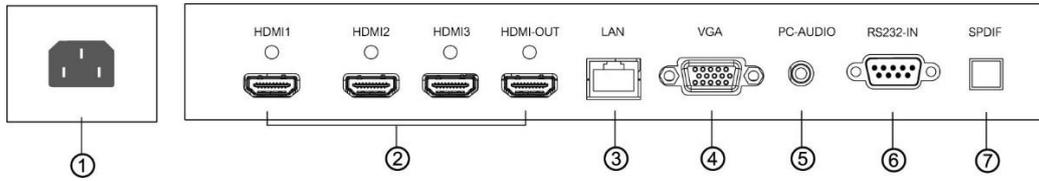


No.	Key	Function
1		Power On/Standby button
2		Gesture Function On/Off button
3		Indicator and remote receiver;
4		On/Off button "I" indicates On; "O" indicates Off. This button is optional, subject to the actual product.

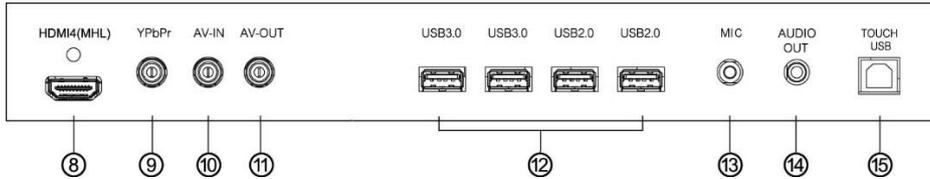
Remark: ① Different models may have slightly different appearances. The above pictures are subject to the actual product.

# Ports

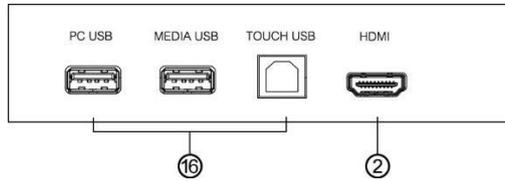
## Bottom Ports



## Side Ports



## Front Ports



No.	Port	No.	Port
1	Power Socket	9	YPbPr Port
2	HDMI-In 1/2/3 & Out Ports	10	AV-In Port
3	LAN (RJ45) Port	11	AV-Out Port
4	VGA-In Port	12	USB Ports
5	PC Audio-In Port	13	MIC-In Port
6	RS232-IN Port	14	Audio-Out Port
7	SPDIF Port	15	Touch USB Port
8	HDMI-In 4 (MHL) Port	16	Front Bezel USB Ports

**Caution:** Disconnect the power plug before installing or removing the product!



## Remote Control

Key	Function
Power (⏻)	Switch between normal operation and standby
Screenshot(□)	Take a screenshot
Mute (🔇)	Enable or disable sound
Letter/Numeric Keys	Input letters and numbers
F1 (Freeze)	Enable or disable still image function in the system
CH List (☰)	View channel list
Home (🏠)	Display the home page
Menu (☰)	Display the main menu
Navigation Keys(◀/▶/▲/▼)	Select or adjust menu options
Vol+/-	Adjust volume
(↶)	Return to the previous interface
Source	Display the source menu
CH +/-	Go to previous/next channel
Audio	Select the sound mode
Sleep (⌚)	Set the sleep time and auto standby when the specified time is reached
OSD	Display channel info
Zoom	Change the aspect ratio
Image	Select the picture mode
Favorite List	Display the list of your favorite channels
SYS	Switch TV systems
Stereo	Select the NICAM mode
OK	Confirm the operation
Play (▶)	For multimedia functions on the intelligent platform
Pause (⏸)	
Stop (■)	
Rotate (↻)	
PREV (⏮)	
Next (⏭)	
Back (⏪)	
Speed (⏩)	

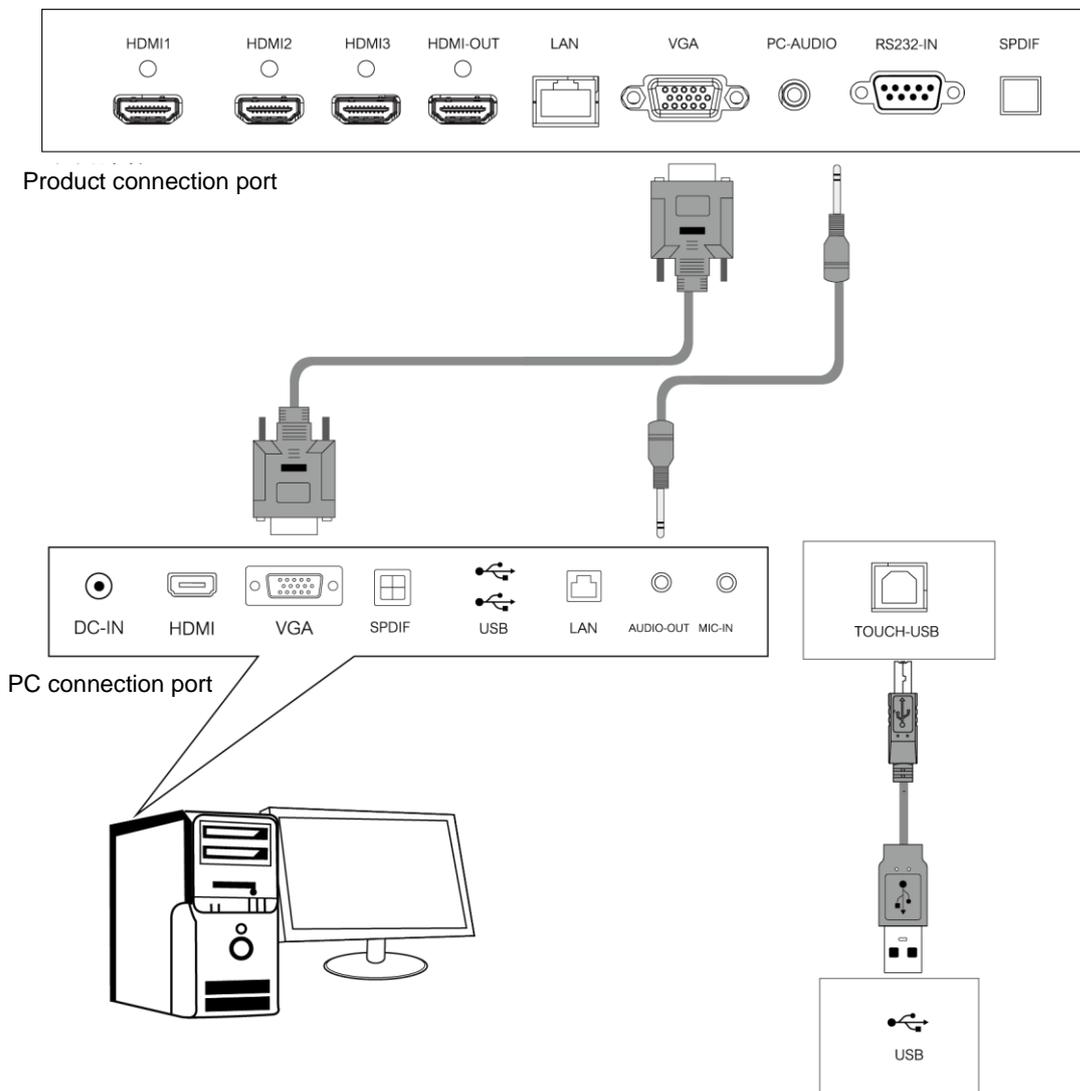
*Remark: The above picture is subject to the actual appearance of the remote control.*

# Connection

## Connection Diagrams

### Diagram for Connection between the Display and a PC

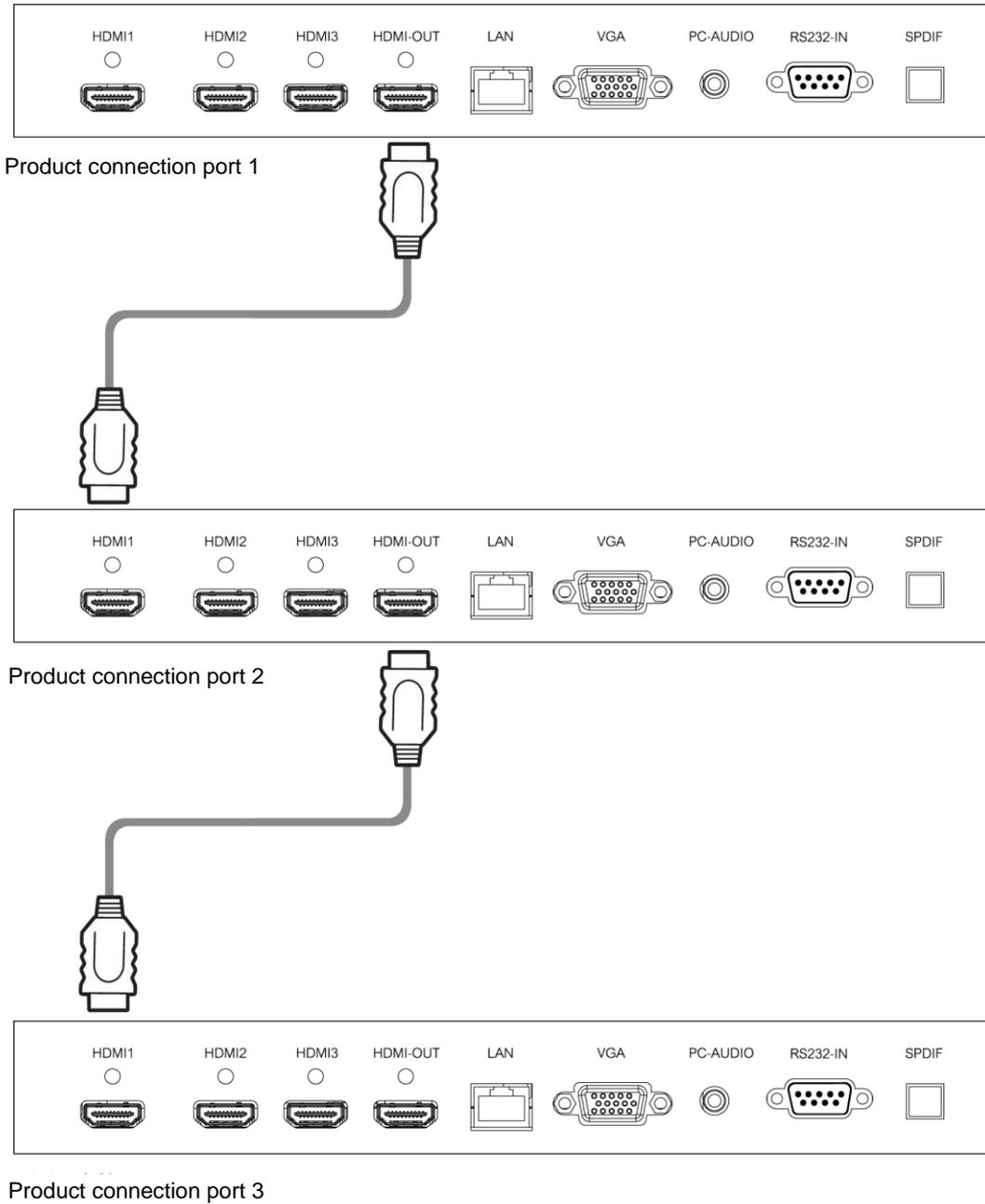
*Caution: Disconnect the power plug before installing or removing the product!*



*Remark: The connection diagram in this manual only provides reference for PC connection, subject to actual operation.*

## Diagram for Connection between the Products

*Caution: Disconnect the power plug before installing or removing the product!*



*Remark: The HDMI-Out port outputs video signals from HDMI-In, HDMI-In 1, HDMI-In 2 and HDMI-In 3 ports, which are looped to another product. Up to 8 products can be looped.*

# Basic Operations

## Power On/Standby

Insert the power plug into the power outlet. First turn on the On/Off button “⏻” on the product, if available; then press “⏻” on the remote control or control panel to turn on the product. In the absence of the On/Off button “⏻”, just press “⏻”.

In power-on state, press “⏻”, and the product will enter standby.

## Source Selection

Upon startup, press “**SOURCE**” on the remote control; the screen will display the “**Input Source**” menu. At this moment, you can press “◀/▶” on the remote control to select a source. Press “**OK**” on the remote control; the product will switch to the input source selected.



## Menu Operations

The menu operations described in this chapter are all in the All-in-One Interactive Touch Machine mode. For operations in the intelligent mode, please refer to the instructions on operation of the intelligent platform below.

- Description of sidebar: To activate the sidebar, slide inward from the left or right side of the screen to its middle area; to hide the sidebar, slide from the middle area to the side of the screen.

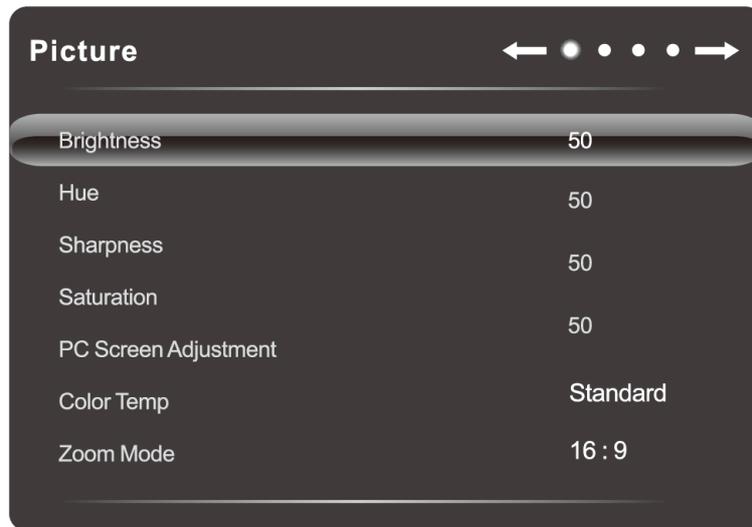


 (Source)		VGA input
		Video input
		Built-in PC input
		Component input
		HDMI/HDMI1/2/3/4 input
	Back	
	Main interface	
	Show programs running in the background	
 (Toolbar)		System setup
		Volume control
		Spotlight
		File manager
		Screenshot
		Screen lock
		Clear cache
	Writing software	

- Press the “**MENU**” key on the remote control; the screen will display the **Main Menu**:
  1. Press “◀/▶” on the remote control to select a category menu (to adjust Picture, Sound, Channel, Settings).
  2. Press “▲/▼” on the remote control to select the desired item in the category menu.
  3. Press “OK” on the remote control to enter the item to be adjusted.
  4. Press “◀/▶” on the remote control to change the analog value or setting of the adjustment item selected.
  5. When the screen displays the main menu, press the “**MENU**” key to exit the **Main Menu**.
  6. During menu operation, the color of an option icon that cannot be operated in the current state will turn grey.

## List of Menu Settings

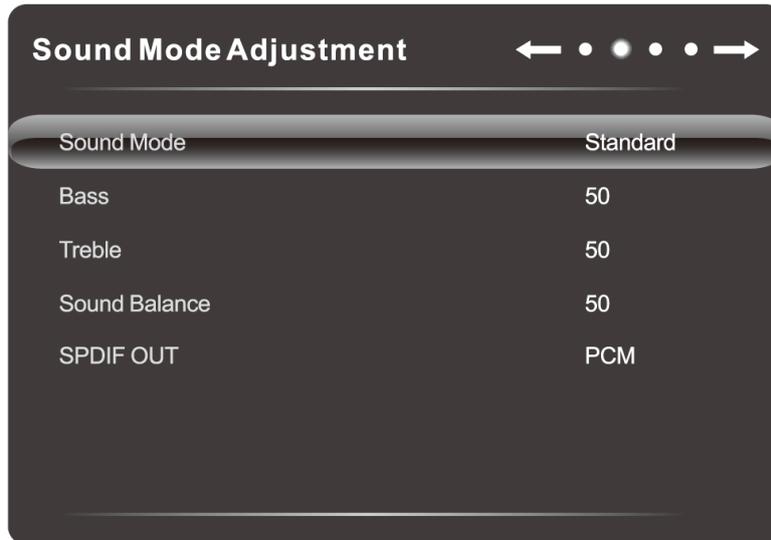
### Picture



Option	Description
Picture Mode	Select a picture mode (Standard, Bright, Soft, Computer, User)
Contrast	Measure the luminance between the brightest white and the darkest black that can be produced in the light and dark areas of a picture.
Brightness	Adjust the overall brightness of pictures: increase the analog value to enhance the brightness; decrease the analog value to reduce the brightness (0-100).
Hue	Adjust the hue of pictures: increase the analog value to turn the hue green; decrease the analog value to turn the hue purple (0-100).
Sharpness	Adjust the black-white gradation of pictures: increase the analog value to improve the gradation; decrease the analog value to reduce the gradation (0-100).
PC Screen Adjustment	Automatically correct the screen (valid only with VGA signal).
Saturation	Adjust the color depth of pictures: increase the analog value to increase the color depth; decrease the analog value to reduce the color depth (0-100).
Color Temp.	Adjust the overall color temperature of pictures: Standard, Warm, and Cold.
Zoom Mode	Adjust the aspect ratio: Full Screen, 4:3, Movie, Subtitle.
PC image Adjustment	Adjust the image display range in PC mode (available under PC signal source .

*Remark: The analog values of Contrast, Brightness, Hue, Sharpness and Saturation are adjustable only in User Mode.*

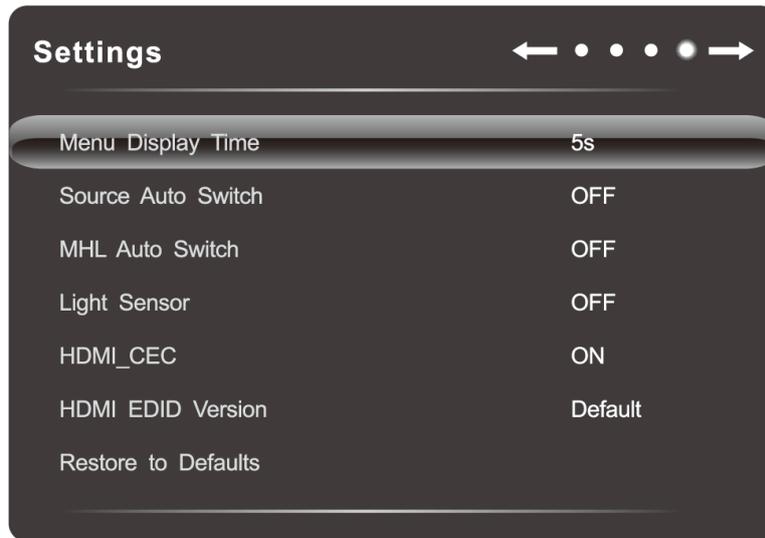
## Sound Mode Adjustment



Option	Description
Sound Mode	Select the sound effect mode: Standard, Music, Movie, User.
Bass	Adjust the bass level: increase the analog value to raise the bass level; decrease the analog value to lower the bass level (0-100).
Treble	Adjust the treble: The bigger the analog value (0-100), the higher the treble.
Sound Balance	Adjust the balance between left and right sound channels: adjust the analog value leftward to increase the volume of left sound channel; adjust the analog value rightward to increase the volume of right sound channel (L50-R50). Generally, the balance is set to 0.
SPDIF OUT	Select the digital sound output mode: PCM, RAW and OFF.

*Remark: The analog values of Bass and Treble are adjustable only in User Mode.*

## Settings



Option	Description
OSD Time	Adjust the OSD time: 5s, 10s, 15s, 20s, 30s, and Constant
Source Auto Switch	Adjust Source Auto switch .
MHL Auto Switch	Adjust MHL auto switching: two modes are available,namely,ON and OFF,it is non-adjustable only under HDMI4.
Light Sensor	ON and OFF.
HDMI_CEC	Adjust HDMI_CEC mode: two modes are available ,namely,ON and OFF.
HDMI_EDID Version	Adjust HDMI_EDID version:Default Mode, EDID1.4,and EDID2.0
Restore to Defaults	Restore all settings to factory defaults, and restart the system.

*Remark: Functions of menu options may vary with the model and source, subject to the actual product.*

# Intelligent Platform Operations

## Basic Operations

Press “▲” on the remote control to display the main page of the intelligent mode (shown in the figure)

1. Press “◀/▶/▲/▼” to select an app;
2. Press “OK” to run the app;
3. Press “Back” to return to the previous page.



## Special Tips

In the intelligent mode, user itself can install apps. Different apps are operated differently. The app operation methods introduced in this manual are for reference only. User shall operate the product according to the actual situation. Some functions cannot be achieved with the remote control. To ensure convenient operation, users are suggested to operate with a USB mouse and keyboard. The mouse and keyboard should be connected to the USB ports. All operation functions can be achieved by manual touch.

## Quick Start

Prior to use of this product, please get familiar with the following operations to ensure a better experience.

## Mouse Operation

1. Click: Click the mouse and then release it immediately;
2. Long press: Press and hold the mouse for more than 3s; then release it;
3. Clicking the left mouse button provides the same effect as clicking the “**OK**” key on the remote control.
4. Clicking the right mouse button provides the same effect as clicking the “**Back**” key on the remote control.

## Language and Keyboard Settings

Language: Select **Settings** > Language&Input Method > **Language** in the intelligent mode, and press “**OK**”; press “**▲/▼**” to select the desired language, and press “**OK**”.

## Select Input Method

Select input method: Select **Settings** > Language&Input Method > **Keyboard** > **Current Keyboard** in the intelligent mode, and press “**OK**”; select the desired input method in the option menu, and press “**OK**” to confirm the choice. The system is provided with “**Android Keyboard**” and “**Google Pinyin Input Method**”. User can also download a third-party input method.

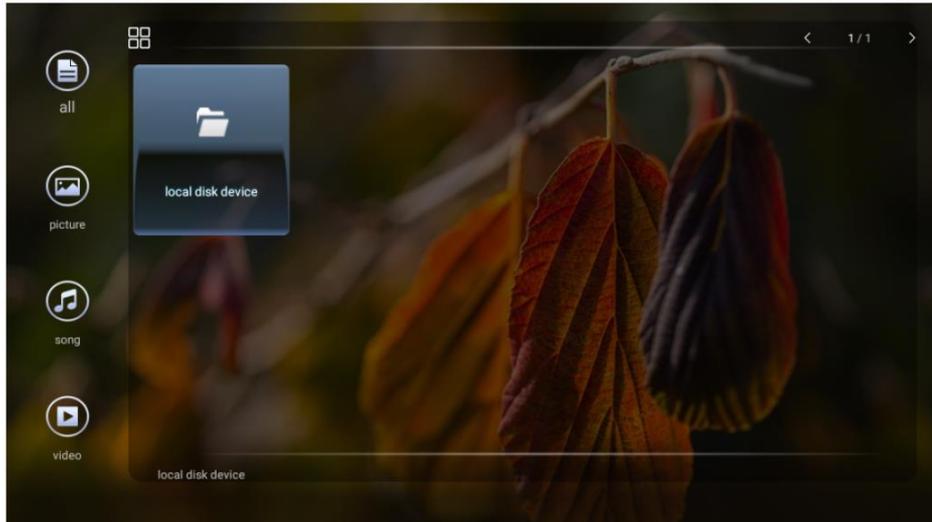
## Set System Time

Select **Settings** > **Date & Time** > **Set Date & Time Automatically** in the intelligent mode, and press “**OK**”. The system will automatically get the time from the network and update it. If the product is not connected to the network, you can only manually set the system time in Date & Time.

## Screenshot

Before taking a screenshot, please insert the USB storage device to a one of the product’s USB ports ,then press the “**SNAPSHOT**” key or tap the “Screenshot” button in the sidebar menu to take a screenshot. After taking a screenshot, the picture is stored in the “:\Pictures\Screenshots” folder in the USB storage device.

## APK Installer



Install the app stored in the local disk: Enter the File Manager; select the APK app and install it.

Download the installer: Download the APK installation file required, then select the APK app and install it.

Delete the app: Long press the APK app to be deleted, the delete menu appears. Select the Delete item to delete this APK app.

## Multimedia Player

Before playing a file in the local disk, first insert the USB storage device to a USB port on the product . Select USB Source or select Local Play in the main interface to go to the Multimedia Player interface. Select a file category from All, Image, Song and Video on the left side. Then select Local Storage Device from the file directory in the middle to enter the USB storage folder. Select the file, and click Play.

During playback, press “OK” to display the menu options shown in the figure; select an icon, and press “OK” to execute the operation. User can also press “Back” to exit the play mode, or press ► / || / ■ / ◀◀ on the remote control.

### Notes:

1. It is possible that some non-standard USB devices cannot be recognized; please use a standard USB device.
2. The streaming media system has certain restrictions on the file format ; errors will occur if the file to be played doesn't meet these requirements ;
3. Do not plug or remove the USB device when the system is playing a file; otherwise system or device failures will occur.
4. This system supports USB flash drives, mobile hard drives and other devices with standard USB3.0 and USB2.0 port transmission protocols.

5. *The maximum output current of USB2.0 ports on the product is 500mA, and that of USB3.0 ports is 900mA; the product will enter self-protection when this limit is exceeded. If you connect an external device with heavy current, it is suggested to use an external power supply.*
6. *If the screen freezes or the product malfunctions due to such factors as compatibility and stability of the USB device, please turn off the product and reinitialize the system.*

## Network Settings

Select **Network Settings** under **Settings** in the intelligent mode, and press “**OK**”.

### Wired Network Settings

Prior to use of wired network, first connect one end of the network cable to the network port on the product, and the other end to the router.

1. Select **Wired Network**; press “**OK**” to enter Settings;
2. If your router is set to allow automatically obtaining an **IP address**, select **Advanced Options > DHCP for IP Configuration**, and press “**OK**”; the product will automatically obtain an IP address. If your router is not set to allow automatically obtaining an IP address, you must complete network connection by the following steps (select Static in TP configuration);
3. Select **IP Address**, and configure an available IP address for the product;
4. Select **Default Gateway**, and configure an available gateway for the product;
5. Select **Network Prefix Valid Length**, and configure a valid length of subnet mask for the product;
6. Select **Preferred DNS1** and **Alternate DNS2**, and configure an available **DNS Server Address** for the product;
7. Select **Save**, and press “**OK**”; the system will give a prompt indicating the setting is finished.

*CAUTION: Please set the network password to a name that isn't too simple.*

# Important Statement on Network Service

All contents and services obtained from the product are owned by third parties and protected by copyright, patent, trademark and/or other intellectual property laws. These contents and services are only for your personal non-commercial purposes, which shall not be used in a way unauthorized by the content owner or service provider.

Under no circumstance shall our Company be liable for any direct, indirect or unexpected losses or damages arising from your or any third party's access to any contents or services or any information or third-party software through this product.

Third-party services may be subject to change, removal or discontinuation without prior notice. Our Company does not represent or warrant that some services or contents will remain accessible at any time.

Our Company will not be responsible for any service related to these contents and services, or assume any liability for customer service. For any question or service request about these contents and services, please directly contact your content or service provider.

## Troubleshooting

Symptom	Possible causes	Solution
The screen does not display; there is no sound, and the indicator does not come on	Looseness of power plug, power connection failure	Check if the power cord is properly connected
Pictures shown on the product have dotted line or stripe interference	Signal interference caused by automobile, neon light, electric hair dryer, etc.	Do not use an electric hair dryer near the product; adjust the antenna orientation to reduce interference
Pictures shown on the PC are offset, do not cover the entire screen, go beyond the screen, or are blurred	<ol style="list-style-type: none"> <li>Improper adjustment</li> <li>Wrong display mode</li> </ol>	<ol style="list-style-type: none"> <li>Use the auto adjustment function</li> <li>Enter "PC Screen Adjustment" to adjust the horizontal or vertical position</li> <li>Use the recommended mode</li> </ol>
Short remote control distance, malfunction of remote control	<ol style="list-style-type: none"> <li>The remote receiver of the product is blocked by some object</li> <li>Battery level of the remote control is low</li> </ol>	<ol style="list-style-type: none"> <li>Move the object to avoid blocking the remote receiver</li> <li>Replace the battery</li> </ol>
The product gets stuck, crashes or cannot be operated	<ol style="list-style-type: none"> <li>Too many programs are running</li> <li>Normal operation of the product is disturbed by external environment (e.g., lightning, static electricity)</li> </ol>	Disconnect the product from power supply; wait for 1-2min and reconnect power supply; then restart the product
The touch function reacts slowly or does not work	Too many programs are running	Clean programs occupying a large amount of RAM or restart the product
The OPS computer cannot start up normally; there is no display, and the touch function does not work	The OPS computer is not properly fixed	Reinstall the OPS computer
Touch offset	It is caused by the computer system coordinates; this problem requires calibration	Access Control Panel to select calibration
The touch function does not work when an external computer is connected	<ol style="list-style-type: none"> <li>The Touch USB cable does not correspond to the port</li> <li>The Touch USB cable is too long or is too poor in quality</li> </ol>	<ol style="list-style-type: none"> <li>Check and change the port corresponding to the Touch USB cable</li> <li>Replace the Touch USB cable with a shorter or better one</li> </ol>

# Specifications

<b>Model</b>		<b>NovoTouch LK9820i</b>		
<b>Display Type/Size</b>		98"D-LED backlight (IPS panel)		
<b>Brightness (Typ)</b>		400cd/m <sup>2</sup>		
<b>Contrast (Typ)</b>		1,300:1		
<b>Native Resolution</b>		4K Ultra-HD (3840 × 2160)		
<b>Viewing Angle (H/V)</b>		178°/178°		
<b>Aspect Ratio</b>		16:9		
<b>Response Time (Typ)</b>		5ms		
<b>Touch Technology</b>		IR touch		
<b>Touch Points (Writing/Touch)</b>		10-point/10-point (Standard)		
<b>System Version</b>		Android™ v5.0		
<b>CPU</b>		MSD6A828, quad-core ARM®Cortex®A53CPU - up to 1.4GHz		
<b>GPU</b>		Mali™- 450		
<b>RAM/Internal Storage</b>		2GB DDR3/16GB (eMMC Flash)		
<b>Connectivity</b>	<b>Input</b>	<b>Display</b>	HDMI v2 (x4), HDMI v1.4 (x1), VGA-In (x1), YPbPr-In (x1), AV-In (x1)	
		<b>Audio</b>	Audio-In (3.5mm) (x1), MIC-In (3.5mm) (x1)	
	<b>Output</b>	<b>Display</b>	HDMI-Out v2 (4K@60Hz) (x1), AV-Out (x1)	
		<b>Audio</b>	Audio-Out (3.5mm) (x1), SPDIF-Out (x1)	
	<b>Internet</b>		LAN (RJ45) (x1)	
	<b>Control</b>		RS232 (x1)	
	<b>USB</b>	<b>Front</b>	U USB 2.0 (x2), USB Type B (x1) (For Touch Port)	
		<b>Side</b>	USB 2.0 (x2), USB 3.0 (x2), USB Type B (x1) (For Touch Port)	
<b>Expansion Slot</b>	<b>OPS Interface</b>		Standard Compliant (80pin)	
<b>Dimension (LxHxD)</b>		2,241.7 x 1,337.8 x 116.4mm (88.3" x 52.7" x 4.6")		
<b>Accessories</b>		AC Power Cord, HDMI Cable, USB Cable, Stylus (x2), Remote Control, Wall Mount Kit .		

# Toxic/Hazardous Substances/Elements in the Product

## Toxic/Hazardous Substances/Elements in the Product

Component	Toxic/Hazardous Substance/Element					
	Pb	Hg	Cd	Cr <sup>6+</sup>	PBB	PBDE
Display screen	×	○	○	○	○	○
Housing	○	○	○	○	○	○
PCBA*	×	○	○	○	○	○
Power cord and connecting cables	×	○	○	○	○	○
Metal parts	○	○	○	○	○	○
Packaging materials*	○	○	○	○	○	○
Remote control	×	○	○	○	○	○
Speaker	×	○	○	○	○	○
Accessories*	○	○	○	○	○	○

\*: PCBA includes the PCB and its electronic components;

Packaging materials include the carton, EPS, etc.

Other accessories include the User's Manual, etc.

○: The content of such toxic/hazardous substance in all homogeneous materials of such component falls within the content limit specified in GB/T26572-2011.

×: The content of such toxic/hazardous substance in one or more homogeneous materials of such component goes beyond the content limit specified in GB/T26572-2011.

As shown in the above table prepared based on the data provided by our material suppliers for each type of materials and verified by us, this product contains hazardous substances. The hazardous substances contained in some materials are irreplaceable at the current technological level although we've been trying to make improvements.

The environment-friendly use period of this product is 10 years (see the pollution control symbol in the right figure).



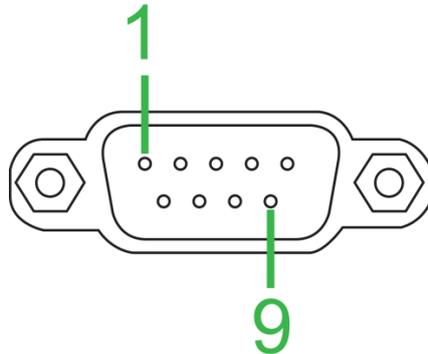
Such use period will be maintained under the normal working conditions specified in the User's Manual only.

### Instructions for Regulations on Recycling of Waste Electrical and Electronic Products

To care for and protect the earth better, please send it to a local manufacturer with nationally recognized qualification for recycling according to the national applicable laws and regulations on recycling of waste electrical and electronic products when you no longer need this product or at the end of its service life.

# Appendix (RS-232 Serial Port Control Description)

The following gives the pin definitions of RS-R232 port:



## Serial Port Configuration

Configuration Parameter	Value
Baud Rate	38400
Data Bits	8
Stop Bits	1
Parity	None

## Function Code List

Function	Code		
POWER_Off	69	76	20
POWER_On	69	53	43
ENTER	69	07	8F
MUTE	69	37	5F
1	69	92	04
2	69	A2	F4
3	69	B2	E4
4	69	93	03
5	69	A3	F3
6	69	B3	E3
7	69	94	02
8	69	A4	F2
9	69	B4	E2
0	69	95	01
VOL+	69	82	14
VOL-	69	85	11
CH+	69	C4	D2
CH-	69	C5	D1
SOURCE	69	19	7D
MENU	69	80	16
LEFT	69	63	33
RIGHT	69	66	30
DOWN	69	43	53
UP	69	46	50
LAN	69	34	52

## Source Code List

Source	Code			
AV1	89	55	0D	14
AV2	89	55	12	0F
AV3	89	55	0A	17
AV4	89	55	15	0C
SV	89	55	19	08
YCbCr	89	55	04	1D
VGA	89	65	03	0E
HDMI1	89	65	05	0C
DVI	89	65	07	0A
HDMI2	89	65	07	0A
HDMI2	89	65	07	0A
FREEZE	89	55	06	1B
HDMI3	89	65	09	08
HDMI14	89	65	0B	06
OPS	89	65	0D	04
HDMI	89	65	0E	03

First send "POWER ON" command to start up the product. After chip initialization is finished (the serial debugging assistant can be used to send the POWER ON command; refer to the printed message to confirm whether initialization is finished; there is a time delay of about 2min). Then send the "LAN" command for activation (after normal activation, the "LAN PORT IS OK!" prompt will appear). After that, other normal commands can be sent. The "LAN" command only needs to be sent on startup, and it is unnecessary to send it on shutdown.

*Remark: The factory menu in the new software provides a setup switch allowing you to select whether or not to skip the "LAN" command. If it is set to "OFF", it is unnecessary to send the "LAN" command. Press "MENU" + "8" + "2" + "0" + "2" on the remote control to enter the factory menu*

Baud rate: 38400; data bits: 8; stop bit: 1; parity bit: none

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## About This Manual

This manual introduces end users how to install and use the display. We have tried to put related information (such as illustrations and descriptions) on the same page. This manual is easy to print, convenient for reading, and also paper-saving and environment-friendly. You are suggested to print relevant pages as needed.



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