

使用说明书

技术参数	
尺寸	成型尺寸：145x210mm
材质	封面封底157g双铜纸覆哑膜，内页80g双胶纸
工艺	印刷：单黑印刷
成型方式	骑马钉装，共32P
特殊说明	

公差设定	公差表 (此处为默认公差，单独标注的公差范围除外) 单位：mm					
	纸本类	尺寸范围	0-60	>60-100	>100-150	>150-200
		尺寸公差	±1.0	±1.5	±2.0	±2.5
		图文位置偏移公差	±2.0			±3

*此页非印刷&刻录页



广州视源电子科技股份有限公司
GUANGZHOU SHIYUAN ELECTRONIC CO.,LTD.

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变更履历：

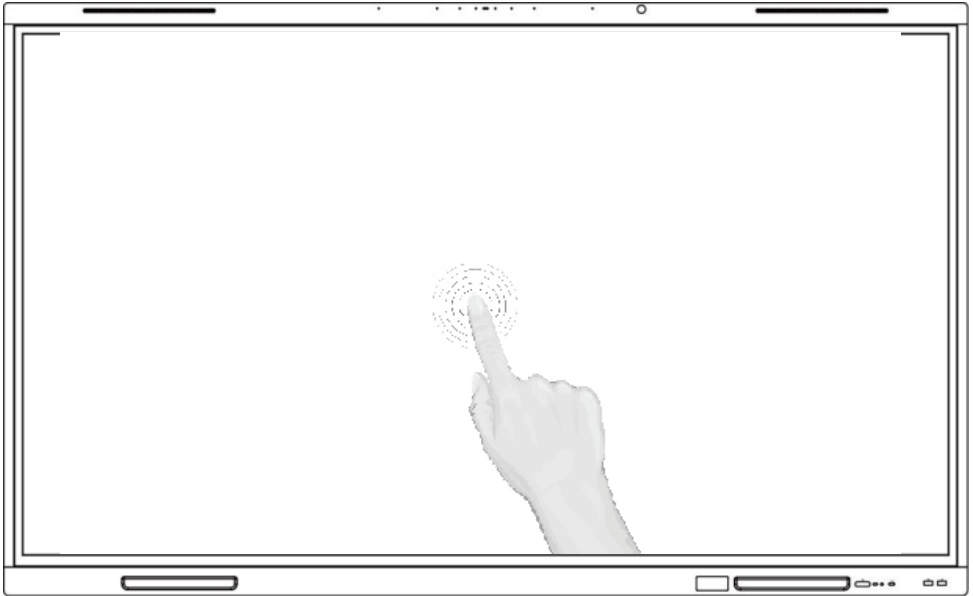
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V1.0	第一版	2023-05-22	刘雅静
V1.0	增加UL 要求警语、低蓝光警语 (EK000XG(EK65XG、EK75XG、EK86XG)-3588方案-Interactive Intelligent Panel User Manual-V1.3-20230614) EK000XG(EK65XG、EK75XG、EK86XG)-3588方案-认证警语-V1.1-20230625.pdf	2023-06-19	刘雅静

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CLEVERTOUCH®

by Boxlight®

Interactive Touchscreen Display User Manual



Note: All the pictures in this manual are for reference only,
subject to our available products

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Safety Warning

Before operating, please read this manual thoroughly, and keep it for future reference.

Image shown in this manual is indicative only. There may be differences between the pictures and the actual product, please prevail in kind.

Placement

DO NOT put heavy objects on top of the unit.

DO NOT put the unit near appliances that generate magnetic fields.

DO NOT expose the unit to direct sunlight and other sources of heat.

DO NOT place the unit on an unstable cart, stand, tripod, bracket, table, or shelf.

DO NOT put any liquid near or on the unit, make sure do not spill any liquid inside the unit.

Power Supply

Please keep power cable from physical or mechanical damage.

Please check and ensure AC source is connected with the ground.

This power cable comes with the device exclusively for this device only.

Please unplug power supply when the weather is thunder–storm or lightning.

Check that the unit's operating voltage is identical with your local power supply.

Please use the original power cable from the accessory bag, don't modify or lengthen it.

Please unplug power supply, when there is nobody home or the unit will be in idle for a long time.

The fuse may be in the neutral, the mains shall be disconnected to de-energize the phase conductors.

LED Screen

Unplug the power cable before cleaning.

Clean the screen with a soft, dustless and dry cloth.

For deep clean, please contact an authorized service center.

Never use water or the spray type detergent to clean the unit.

Never use any other hard or sharp object to replace the touch pen.

Better for the panel lifetime and the display performance, do not display high brightness image for long time.

Temperature

Normal operating temperature is 0 ~ 40°C.

Do not place the unit near or over a radiator or a heater.

If your unit is suddenly moved from a cold to a warm place, please unplug the power cable and do not turn it on at least 2 hours, making sure the moisture inside the unit is all evaporated.

Humidity

Do not expose the unit in rain, or place in high humidity area.

Please make sure indoor environment is dry and cool. Normal operating humidity is 10%~90%RH.

Ventilation

Please put the unit in a well-ventilated place, so the heating can be released easily.

Ensure that the unit has enough space for ventilation. Space requirement: left, right and back >10cm, top> 20cm.

Earphone

Before using earphone, please turn down the volume in advance.

Using the earphone to listen loud sound for a long time might affect the hearing.

Standby

It will enter standby mode but not turn off the unit after press the standby key.

Battery

Please make sure the battery gets proper disposal or recycle after using.

Please keep the battery away from kids and don't throw the battery into fire.

Caution risk of fire or explosion if the battery is replaced by an incorrect type.

Notes for Cleaning

There are vents on back cover, please do not use any liquid or spray directly during cleaning.

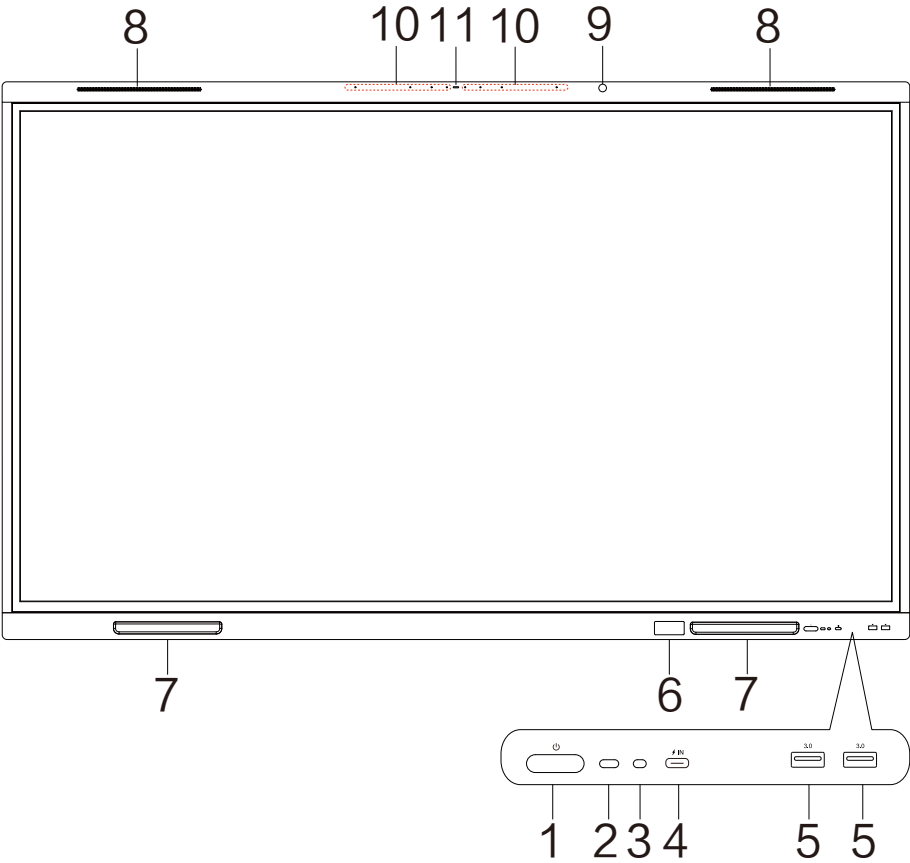
Power Switch Status Signs

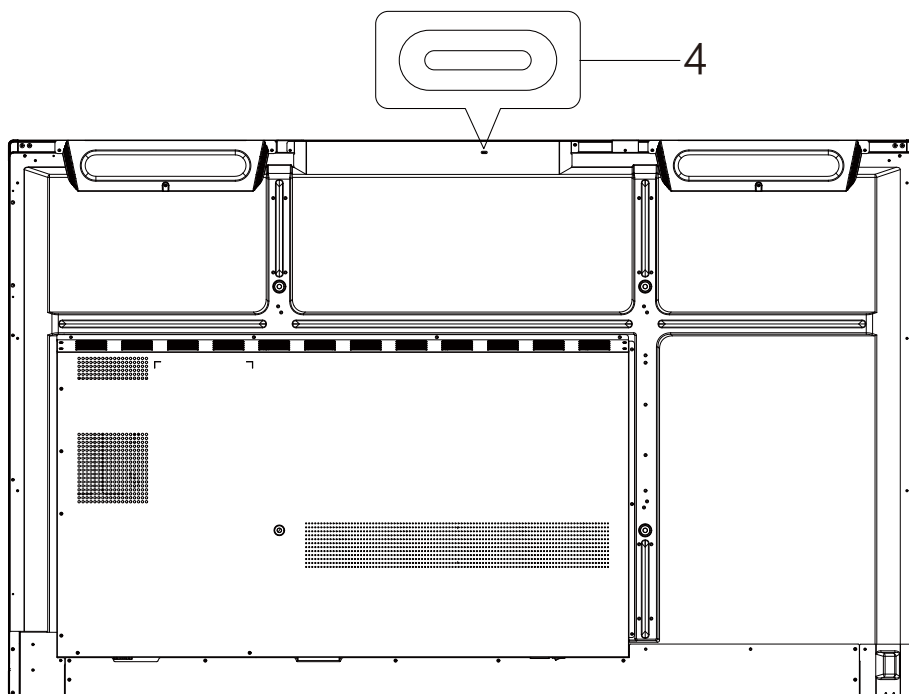
“I” means power on, “O” means power off.


Notes for Maintenance


This machine can only be maintained by certified engineer.

Prepare to Install

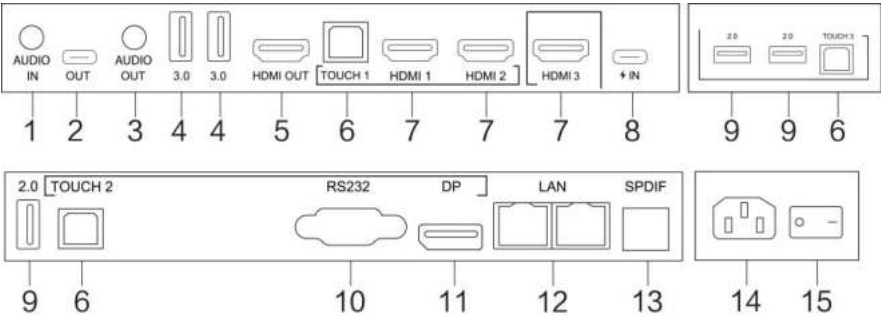





No.	Items	Function description
1		Power Button: Tap to enter energy saving function press at least 2 seconds to enter standby mode.
2	Remote control signal receiver	Receive remote control signal.
3	Light sensor	Sense ambient light to adjust backlight for appropriate brightness, it can be switched in the menu.

4	 IN	<p>USB Type C: Support charging, data transmission, extension for audio and video output interface, etc.</p> <p>Note: Front USB Type-C : The maximum rated power is 20V 5A (20V 3.25A when OPS is plugged in) ; Top USB Type-C : The maximum rated power is 5V 1A ;</p> <p>When using this port to charge electronic devices, the charging power of the electronic device cannot exceed the rated power of this port. If the charging power of the electronic device exceeds the rated charging power of this port, please Do not directly use this port for charging.</p>
5	3.0 (5V 900mA)	Connect USB devices such as mobile hard disk, U disk, USB keyboard ,mouse, USB drives, etc.
6	NFC	NFC card reader.
7	Magnetic zone	Area for placing the absorptive magnetic pen.
8	Loudspeaker	Sound output.
9	PIR	<p>1) The screen will light up automatically when a person is detected in front of the screen;</p> <p>2) People in front of the screen to ensure that the screen</p>
10	Array microphone	The sound is collected when the microphone is on
11	Microphone indicator light	White light means the microphone is working

Terminal Interface

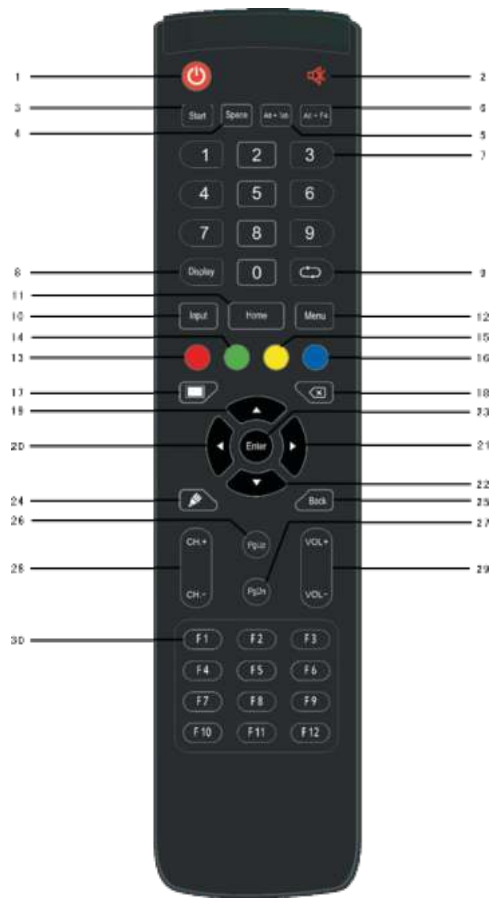


No.	Items	Function description
1	AUDIO IN	External audio sources input(It is generally used as the sound input of the VGA interface)
2	USB Type-C OUT (5V1A)	Support data transmission, extension for audio and video input interface, etc.
3	AUDIO OUT	Audio output to the external speaker
4	3.0 (5V 900mA)	Connect USB devices such as mobile hard disk, U disk, USB keyboard ,mouse, USB drives, etc.
5	HDMI OUT	Connected to the devices with HDMI input function (monitor)
6	TOUCH 1/2/3	Touch signal output to the external computer

7	HDMI 1/2/3	High-definition multimedia interface signal input, connect to devices with HDMI output interface (personal computer with HDMI output, set-top box, or another video device)
8	 IN	Support charging, data transmission, extension for audio and video output interface, etc. Note: The maximum rated power of the USB Type-C port of this product is 5V 3A; When using this port to charge electronic devices, the charging power of the electronic device cannot exceed the rated power of this port. If the charging power of the electronic device exceeds the rated charging power of this port, please Do not directly use this port for charging.
9	2.0 (5V 500mA)	Connect USB devices such as mobile hard disk, U disk, USB keyboard ,mouse, USB drives, etc.
10	RS232	Serial interface, used for mutual transfer of data between devices
11	DP	Connected to devices with Display Port output function.
12	LAN	Connected to Ethernet
13	SPDIF	Carry multichannel sound via optical signals.
14	AC IN	AC power input, connecting AC power supply
15	AC SWITCH	To open or shut down AC power supply. “I” means power on, “O” means power off




Remote Control








1) Remote Control Button Instruction



2) Detailed Function Description

No.	Items	Function description
-----	-------	----------------------

1		Power on/off
2		Enter or exit mute mode
3	Start	PC's Windows key
4	Space	PC's Space key
5	Alt+Tab	PC's Alt+Tab key
6	Alt+F4	PC's Alt+F4 key
7	Numeric keys	Numeric input
8	Display	Display channel information
9		/
10	Input	Pop up settings menu
11	Home	Return to Android system main screen
12	Menu	Pop up menu
13	Red	Enable or disable keys and Touch
14	Green	Enable or disable keys
15	Yellow	Enable or disable Touch
16	Blue	Pop out or close the screen freezing tools

17		Turn off or turn on the screen backlight
18		PC's Backspace
19		Scroll Up
20		Scroll Left
21		Scroll Right
22		Scroll Down
23	Enter	Confirm selection state
24		Quickly start writing software
25	Back	Return to the last operating interface
26	PgUp	Page Up
27	PgDn	Page Down
28	CH.+ / CH.-	/
29	VOL+ / VOL-	Increase/reduce the volume
30	F1–F12	PC's F1 – F12 function keys

NOTE: All computer – related function keys are not available without a built-in computer.

3) Remote Control Instruction

Install Batteries

- 1) Open back cover of battery component on the back of remote control.
- 2) Install AAA type battery according to the corresponding electrode, make sure battery positive and negative pole are correct ("+"to"+", "-" to "-"), please do not mix using old and new batteries.
- 3) After battery is installed, close the back cover of battery components, and make the following clip buckled to the bottom.

Range of remote control

Remote control can work normally within the range of 8 meters distance, 30 degrees left and right from the remote-control receiver; in order to protect environment, please dispose waste battery into recycling box.

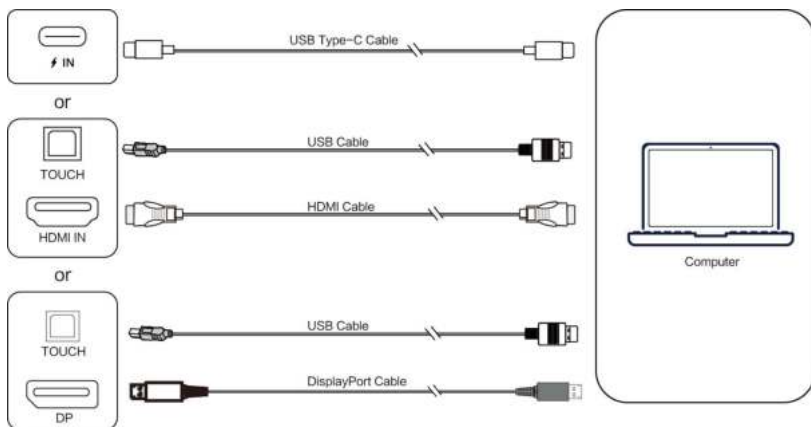



If the battery is replaced by an incorrect type, it may lead to explosion.

Connection and Setting

For the safety of you and the machine, please do not connect any power plug before connection.

(1) External Computer and Touch Connection



- 1) Use USB Type-C cable to connect the computer (Or use HDMI cable to connect to HDMI output port of external computer. Or use Display Port cable to connect to display output port of external computer).
- 2) Use USB cable to connect to external computer USB port.
- 3) After cable connection, plug in power cord, and switch power on.
- 4) Start external computer.
- 5) Press  key, and the equipment is power on.

- 6) Switch the input source to the USB Type-C/HDMI /Display Port channel in the main menu.



NOTE:

External computer input, equipment's best resolution is 3840*2160.

Recommended computer configuration:

1GB Available Hard Drive

2.0GHz Processor, 1GB Memory

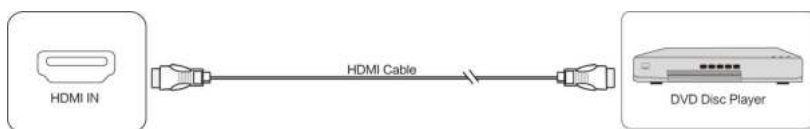
More than 256 color display cards


VGA OUT / HDMI OUT, Audio-OUT, USB Interface

Support Resolution : 800 × 600, 1024 × 768,

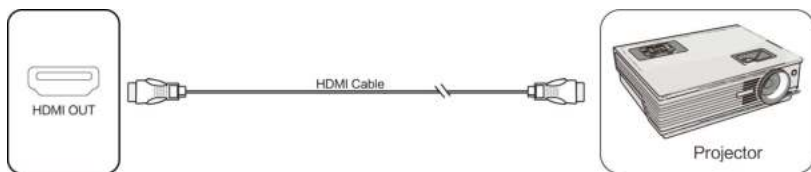
1920 × 1080, 3840 × 2160

(2) Audio and Video Equipment



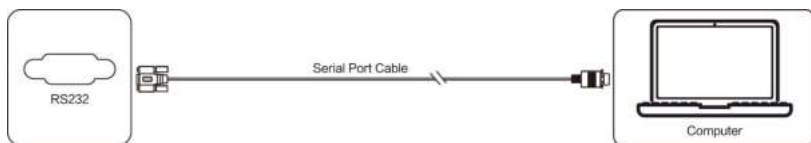
- 1) Use HDMI cable to connect audio and video equipment with HDMI output.
- 2) After cable connection, plug in power cord, and switch power on.
- 3) Press  to turn equipment on.
- 4) Switch the input source to the HDMI channel in the main menu.

(3) Audio and Video Equipment



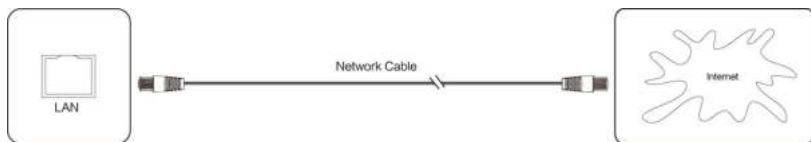
- 1) Use HDMI cable to connect audio and video equipment with HDMI input.
- 2) After cable connection, plug in power cord, and switch power on
- 3) Press \mathcal{U} to turn equipment on

(4) RS232 Connection

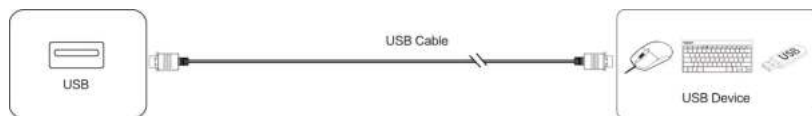


After using serial port cable to connect central control equipment and machine, certain function of the machine can be controlled via central control equipment, such as: machine ON/OFF, and adjustment of sound volume, etc.

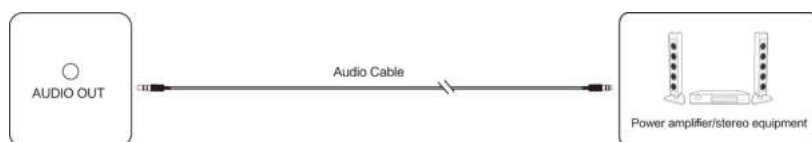
(5) LAN Connection



(6) USB Connection



(7) AUDIO OUT Connection



Simple Troubleshooting

Machine Fails to Work Normally

Remote control failure	Check whether there are other objects between remote control and equipment control receiving window, thus leading to failure of remote control.
	Check whether the battery electrode in the remote control is correct.
	Check whether remote control needs to replace battery.
Machine automatically shut down	Whether set sleep or not.
	Check whether there is sudden power outage.
	The system will automatically shut down if the interactive intelligent Panel's external channel loses signal for 5 minutes. Please check the input and connection of the signal.

PC Mode

Signal out of range	Check whether display is set correctly.
	Check whether resolution is the best resolution.

	Adjust line and field synchronization in menu.
Background has vertical lines or streaks	Select automatic correction in menu.
	Adjust clock and phase position in menu.
Image lack of color, color is incorrect	Check whether VGA is not well connected or has quality problem.
	Adjust chromatic and brightness or contrast in menu.
Display format that is not supported	Select automatic correction in menu.
	Adjust clock and phase position in menu.

Touch Function

Touch function invalid	Check whether the size of article touched is comparable with finger.
Touch positioning not correct	Check whether touch pen is facing the screen.

Video Function Can't Work Normally

No picture and no sound	Check whether the machine is started state.
	Check whether signal wire is well plugged, whether INPUT is corresponding to it.
	If in internal computer mode, check whether internal computer is started.

With horizontal or vertical stripes or image dithering	Check whether signal wire is well connected.
	Check whether other electronic equipment or power tools are placed around the machine.
No color, color is weak, or image is weak	Adjust chromatic and brightness or contrast in menu.
	Check whether signal wire is well connected.

Audio Function Can't Work Normally

With image but without sound	Check whether mute button is pressed for mute.
	Press VOL + / – to adjust volume.
	Check whether audio line is connected correctly.
Only one speaker has sound	Adjust sound balance in menu.
	Check whether computer sound control panel only sets up one sound channel.
	Check whether audio line is connected correctly.
HDMI output without sound	Check whether connect external device.

Maintenance

Proper maintenance can avoid many early faults and regular careful cleaning can make machine brand new.

Please unplug power plug before cleaning and maintenance, to prevent electric shock.

Clean Screen

Please mix and stir even a little fabric softener or tableware detergent with alcohol.

Please use a soft cloth to be completely soaked in the mixture.

Please take out cloth and twist to half dry state to wipe machine screen.

Repeat for several times, pay attention not to squeeze water flow into machine when wiping machine.

Clean Face Frame

Please use dry, soft, lint-free cloth to wipe front frame.

No Use of Machine for A Long Time

In case of no use of machine for a long time, such as holiday, please make sure to unplug the plug to prevent any possible dangers caused by power supply ripple from lightning.

◆ Avertissement de s é curit é

Avant d'utiliser et d'utiliser cet appareil, veuillez lire attentivement et respecter les pr é cautions suivantes afin d' é viter les accidents ou les op é rations impr é cises.

★ Placement

- NE PAS charger ou utiliser l'appareil dans des conditions poussi é reuses ou humides, pour é viter une d é faillance du circuit interne.
- é loignez l'appareil des sources de chaleur telles qu'un radiateur é lectrique.
- La temp é rature de fonctionnement normale est de 0 à 40 °C, l'humidit é de fonctionnement normale est de 10% à 90% HR.

★ S é curit é des enfants

- Le produit et les accessoires peuvent contenir des petites pi è ces.
- Veuillez les placer hors de port é e des enfants afin d' é viter tout danger d'ingestion.

★ Pr é caution d'eau

- Le produit n'est pas é tanche, veuillez le garder au sec.

★ Entretien

- Lorsque l' é quipement est endommag é , veuillez ne pas le d é monter pour r é paration sans autorisation, veuillez appeler le service client pour signaler la r é paration.
 - Veuillez contacter le personnel de service professionnel pour les services de maintenance.
 - NE PAS ins é rer d'objet pointu ou pointu dans l'appareil.
- Emp ê chez l'appareil de tomber et de heurter d'autres objets, ce qui pourrait causer des dommages.

◆ **Federal Communication Commission Interference Statement**

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.

◆ **FCC Caution:**

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.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

◆ **Non-modification Statement:**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

◆ **IC Radiation Exposure Statement for Canada**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L' émetteur/r écepteur exempt de licence contenu dans le pr é sent appareil est conforme aux CNR d' Innovation, Sciences et D é veloppement é conomique Canada applicables aux appareils radio exempts de licence. L' exploitation est autoris é e aux deux conditions suivantes :

1. L' appareil ne doit pas produire de brouillage;
2. L' appareil doit accepter tout brouillage radio é lectrique subi, m ê me si le brouillage est susceptible d' en compromettre le fonctionnement.

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes.

◆ Low Blue Light

Low Blue Light (software solution) filters out blue light to protect your eyes by adjusting how much blue light is shown:

1. To open blue light setting: on an device home screen, swipe up from the bottom
2. In the middle of “General Setting” , the function low blue light is called “Eye care” .
3. Tap the item “Eye care” to enable/disable low blue light.

◆ Tips for eye health

Eye exercises can help minimize eye strain. Slowly roll your eyes to the up, down, left and right. Repeat as many times as needed.

When viewing screens for extended periods, it is recommended to take periodic breaks from viewing. Short breaks of at least 10 minutes are recommended after one (1) hour of continuous viewing.

While taking breaks, users can further reduce eye strain and dryness by focusing on objects that are further away from them for 10–15 seconds, then gaze at something up close for 10–15 seconds. Repeat this up to 10 times. This exercise reduces the risk of your eyes' focusing ability to "lock up" after prolonged computer work.

◆ Protection contre la lumière bleue

La fonctionnalité "Low Blue Light" (réduction de la lumière bleue) (solution logicielle) filtre la lumière bleue afin de protéger vos yeux en ajustant la quantité de lumière bleue affichée. Voici comment accéder aux paramètres de la lumière bleue :

1. Sur l'écran d'accueil de votre appareil, faites glisser votre doigt vers le haut à partir du bas de l'écran pour ouvrir le menu.
2. Au milieu des "Paramètres généraux", la fonction de réduction de la lumière bleue est appelée "Eye Care".
3. Appuyez sur l'option "Eyes Care" pour activer ou désactiver la réduction de la lumière bleue.

En activant cette fonction, vous pourrez réduire l'exposition à la lumière bleue, ce qui peut être bénéfique pour la santé de vos yeux.

◆ Conseils pour la santé de vos yeux.

Les exercices oculaires peuvent aider à minimiser la fatigue oculaire. Voici quelques exercices recommandés :

1. Faites rouler lentement vos yeux vers le haut, vers le bas, vers la gauche et vers la droite. Répétez cela autant de fois que nécessaire.

2. Lorsque vous regardez des écrans pendant de longues périodes, il est recommandé de prendre des pauses régulières. Des pauses courtes d'au moins 10 minutes sont recommandées après une heure de vision continue.
3. Pendant les pauses, vous pouvez réduire davantage la fatigue oculaire et la sécheresse en vous concentrant sur des objets éloignés pendant 10 à 15 secondes, puis en regardant quelque chose de près pendant 10 à 15 secondes. Répétez cela jusqu'à 10 fois.
- Cet exercice réduit le risque de blocage de la capacité de mise au point de vos yeux après une utilisation prolongée de l'ordinateur.



This symbol, affixed to the product or its packaging, indicates that the product must not be processed with household waste. It must be brought to an electric and electronic waste collection point for recycling and disposal. By the appropriate disposal of this product you also help in preventing potentially negative consequences for the environment and human health. The recycling of materials helps preserve our natural resources. For further information regarding the recycling of this product, please contact your municipality, local waste disposal centre or the store where the product was purchased.

Operate frequency: 13.56MHz,

Frequency Range: 11.810–15.310MHz

Max. transmitting power: < 42 dB μ A/m (for 10m distance)

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by Boxlight[®]