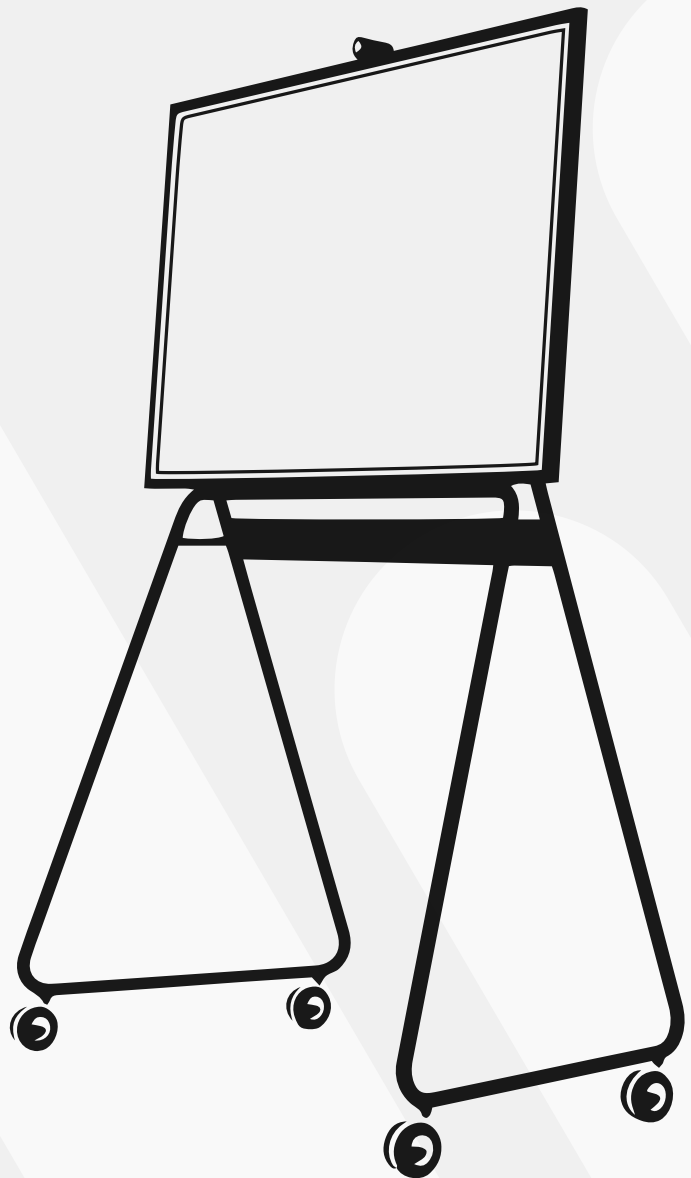


# Vibe S1 55"

# User Manual

( Please read this manual before operation.)



# Safety Instructions

## Safety precautions and maintenance



WARNING: Use of controls, adjustments or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards and/or mechanical hazards.

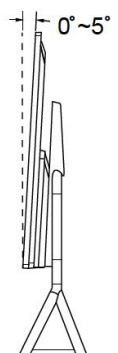
### Read and follow these instructions when connecting and using your display:

#### Operation:

- Keep the display out of direct sunlight and open flames, hot appliances, or any other heat sources.
- Remove any object that could fall into ventilation holes or prevent proper cooling of the display's electronics.
- Do not block the ventilation holes on the Vibe.
- When positioning the display, make sure the power plug and outlet are easily accessible.
- When turning off the display by detaching the power cord, wait 6 seconds before re-attaching the power cord for normal operation.
- Ensure the use of an approved power cord at all times. If your power cord is missing, please contact your local service center.
- Do not subject the display to strong vibration or high impact during operation.
- Avoid dropping the display during operation or transportation.
- This apparatus is intended to be supported by a UL Listed Wall Mount Bracket or equivalent.

#### Maintenance:

- To protect your display from possible damage, do not put excessive pressure on the LCD panel. When moving your display, hold the frame to lift; do not lift the display by placing your hand or fingers on the LCD panel.
- Unplug the display if you are not going to use it for an extensive period of time.
- Unplug the display if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. Never use organic solvent, such as alcohol, or ammonia-based liquids, to clean your display.
- To avoid the risk of shock or permanent damage to the hardware, do not expose the display to dust, rain, water, or a moist environment.
- If your display becomes wet, wipe it with a dry cloth as soon as possible.
- If a foreign substance or water gets in your display, turn the power off immediately and disconnect the power cord. Then remove the foreign substance or water and send the unit to the maintenance center.
- Do not store or use the display in locations exposed to heat, direct sunlight or extreme cold.
- In order to maintain the best performance of your display and ensure a longer lifetime, we strongly recommend using the display in a location within the following temperature and humidity ranges:
  - Temperature: 0-40°C 32-104°F
  - Humidity: 20-80% RH
  - Altitude: 5000m
  - The forward tilt of the product will affect the touch effect. The suggested installation angle is 0o~5o.



**IMPORTANT:** Always activate a moving screen saver program when you leave your display unattended. Always activate a periodic screen refresh application if the unit will display unchanging static content. Uninterrupted display of still or static images over an extended period may cause “burn in”, also known as “after-imaging” or “ghost imaging”, on your screen. This is a well-known phenomenon in LCD panel technology. In most cases, the image will disappear gradually after the power has been switched off.

**WARNING:** Severe “burn-in” symptoms will not disappear and cannot be repaired. This is not covered under the terms of your warranty.

### **Service:**

- The casing cover should only be opened by qualified service personnel.
- If there is any need for repair or integration, please contact your local service center.



If your display does not operate normally, having followed the instructions in this document, please contact a technician or your local service center.

### **Important Safety Instructions**

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades, one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Use with other (carts, stands, or carriers) may result in instability causing injury.
13. Unplug this apparatus during lightning storms or when unused for long periods.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as if the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## ESD Warnings

When user close to the monitor, it may cause the equipment discharge and reboot to the display of main menu.

### Warning:

This equipment is compliant with Class A of EN55032/CISPR 32. Operation of this equipment in a residential environment could cause radio interference.

### Federal Communications Commission (FCC) Notice (U.S. Only)



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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

Use only an RF shielded cable that was supplied with the display when connecting this display to a computer device.

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.



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.

### End-of-Life Disposal

Your new Public Information Display contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old display from your local dealer.

#### (For customers in Canada and U.S.A.)

This product may contain lead and/or mercury. Dispose of in accordance to local-state and federal regulations. For additional information on recycling, contact [www.eia.org](http://www.eia.org) (Consumer Education Initiative)

### Waste Electrical and Electronic Equipment--WEEE

#### Attention users in United States:

Please dispose of the product according to all Local, State and Federal Laws. For disposal or recycling information, contact: [www.mygreenelectronics.com](http://www.mygreenelectronics.com) or [www.eiae.org](http://www.eiae.org).

## End of Life Directives--Recycling



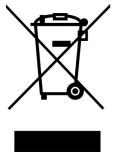
Your new Public Information Display contains several materials that can be recycled for new users.

Please dispose of according to all Local, State, and Federal laws.



Disposal of Waste Equipment by Users in Private Household in the European Union.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



This radio transmitter has been approved by Industry Canada.

This Class B digital apparatus complies with Canadian standard CAN ICES-003(B)/NMB-003(B). This device complies with Industry Canada License exempt RSS standard(s). Operation is subject to the following two conditions. This device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with ISED 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 & your body.

### Stability Hazard

The product may fall, causing serious personal injury or death. To prevent injury, this product must be securely attached to the floor/wall in accordance with the installation instructions. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

ALWAYS use cabinets, stands, or installation methods recommended by the manufacturer of the product.  
ALWAYS use furniture that can safely support the product.

ALWAYS ensure the product is not overhanging the edge of the supporting furniture.

ALWAYS educate children about the dangers of climbing on furniture to reach the product or its controls.

ALWAYS route cords and cables connected to your product so they cannot be tripped over, pulled or grabbed.

NEVER place a product in an unstable location.

NEVER place the product on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the product to a suitable support.

NEVER place the product on cloth or other materials that may be located between the product and supporting furniture.

NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the product or furniture on which the product is placed.

If the existing product is going to be retained and relocated, the same considerations as above should be applied.

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This User Manual applies to the Mode Numbers as below:

S55T02AUS, S55T02AEU, S55T02\*\*\* ...

The user interface is subject to change. Please refer to the actual machine for user interactions.

## 1. Safety Instructions

### 1.1. Safety precautions and maintenance

- This product is packed with the standard accessories.
- Any other optional accessories will be packed separately.
- Due to the size and weight of this display, it is recommended for two people to move it.
- After opening the box, please verify that all parts mentioned below are included and in good condition.

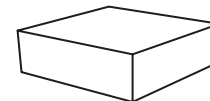
### 1.2. Package Contents

Please verify that you received the following items with your package:

- LCD Display
- Power Cord
- Stylus
- Accessory Box
- Quick Start

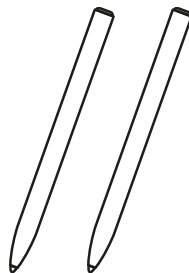


Quick Start



Accessory Box

\* The supplied power cord varies depending on destination.



Passive Stylus



Power Cord

\* Differences according to regions  
Display design and accessories may differ from those illustrated above.

#### NOTES:

- For all other regions, apply a power cord that conforms to the AC voltage of the power outlet that complies with the safety regulations of the particular country.

### 1.3. Installation Notes

- Due to the high power consumption, always use the plug exclusively designed for this product. If an extended line is required, please consult your service agent.
- The product should be installed on a flat surface to avoid tipping. The distance between the back of the product and the wall should be maintained for proper ventilation. Avoid installing the product in the kitchen, bathroom or any other places with high humidity to avoid shortening the service life of the electronic components.
- The product can normally only operate under 5000m in altitude.

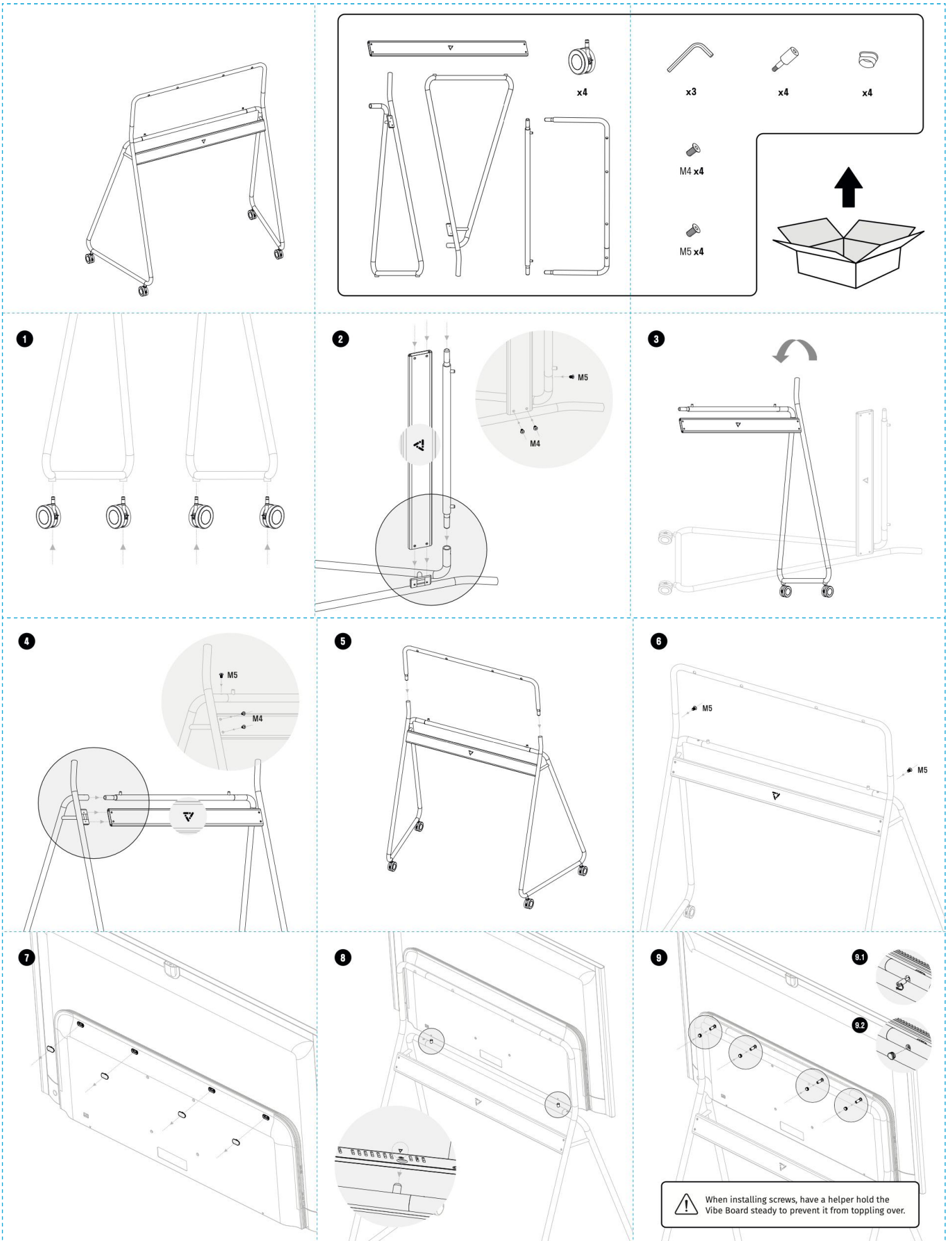
## **2. Stand Installation (Optional)**

### **2.1. Vibe Assembly notes**

- Caution: The Vibe board and stand are heavy and require a minimum of three people to install. Use caution when lifting them.
- If screws are found missing or loose, please contact professional repair services or contact Vibe customer service.
- Caution: If you choose a third-party wall mount, the wall mount chosen should be able to support 120 lbs plus the self weight of the mount.
- Avoid high temperature, explosive gas and strong electromagnetic interference during installation.
- Keep the product away from direct sunlight.
- To reduce the risk of fire or electrical shock, do not expose this product to rain, moisture or other liquids. Do not touch the board with wet hands. Do not install this product near flammable objects such as gasoline or candles, or expose the board to direct air conditioning.
- Make sure all screws are secured properly to avoid board falling down.
- Please carefully read the installation manual and follow the instructions. Vibe is not liable to injuries caused by improperly following the manual.
- Please contact us directly if you have any questions when reading the manual.

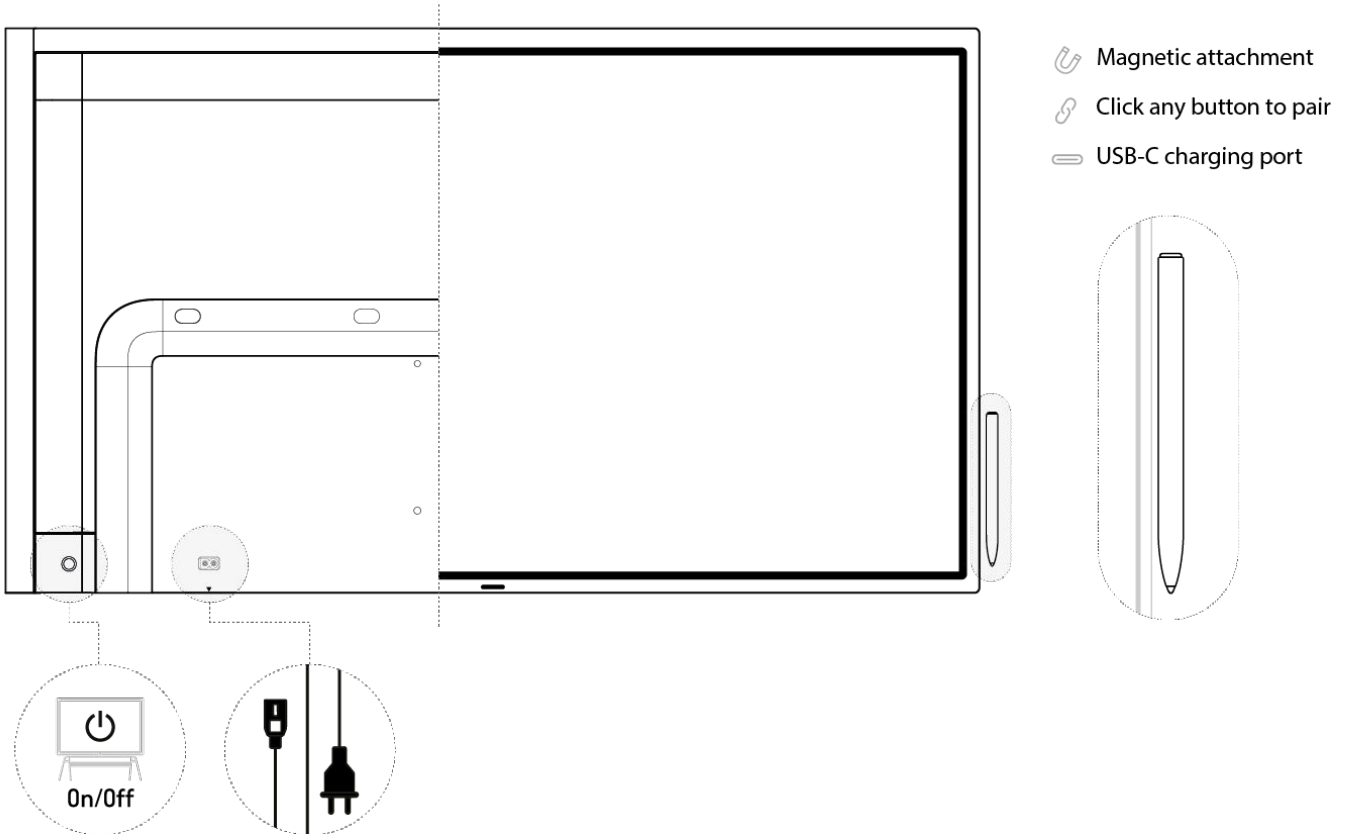


## 2.1. Installing the Stand



### 3. Parts and Functions

#### 3.1. Input/Output



## 4. Touch Control

Vibe is equipped with an infrared touch display and can be operated by fingertips or a Vibe stylus. The following descriptions illustrate typical operations. More Vibe software manuals and guides can be found at <https://knowledge.vibe.us>.

### 4.1. Draw & Erase with Vibe Stylus



#### Write or draw

Select a pen tool and use the stylus to write or draw.



#### Erase

Select the eraser tool and use the stylus to erase markers on screen.

### 4.2. Canvas Operation by Fingertips



#### Pan the canvas

Use one finger and touch a blank area of the screen—without losing direct contact—to move the canvas.



#### Pinch to zoom

On a touchscreen, move one's finger and thumb apart or together to zoom into and out of the canvas.

### 4.3. Other Operations

The following operations can be done either with fingertip or Vibe stylus.

#### Choose a tool or select an option

Touch the target on the screen for one quick tap, then release.

#### Select an object

Touch and hold the target (e.g., an image or a Sticky-Note) on the screen.

#### Move an object

Touch the selected target and move across the screen without losing direct contact, then release when reaching the new location.

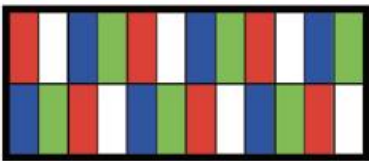
**Note:** Avoid scratching with sharp objects on the touch display. Only use fingertips and the Vibe stylus are for touch control.

## 5. Pixel Defect Policy

We strive to deliver the highest quality products and use some of the industry’s most advanced manufacturing processes whilst practicing stringent quality control. However, pixel or sub-pixel defects on the PDP / TFT panels used in Plasma & LCD displays are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but can guarantee that any Plasma & LCD displays with an unacceptable number of defects will be repaired during the warranty period in line with your local warranty.

This notice explains the different types of pixel defects and defines the acceptable defect level for the LCD screen. To qualify for repair under warranty, the number of pixel defects must exceed a certain level as shown in the reference table. If the LCD screen is within specification, a warranty exchange or claim will be denied.

### Pixels and Subpixels



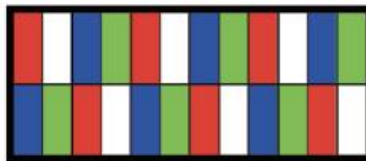
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels together appear as a single black pixel. Other combinations of lit and dark sub-pixels appear as single pixels of other colors.

### 5.1. Types of Pixel Defects + Dot Definition

Pixel and sub-pixel defects appear on the screen in different ways. There are three categories of pixel defects and several types of sub-pixel defects within each category.

Dot definition = What is a defective “Dot”?

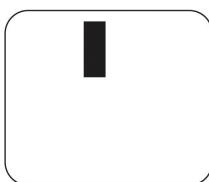
One or more defective, adjacent sub-pixel are defined as one “dot”. The number of defective sub-pixels are not relevant to define a defective dot. This means that a defective dot can consist of one, two or three defective sub-pixels which can be dark or lit.



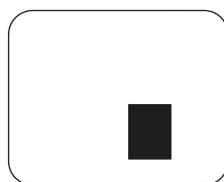
One dot = One Pixel; consists of three sub-pixels of Red, Green, and Blue.

### 5.1. Dark Dot Defects

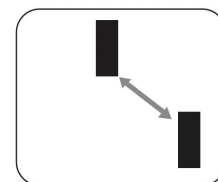
Black dot defects appear as pixels or sub-pixels that are always dark or “off.” These are the examples of black dot defects:



One dark dot



Two adjacent dark dots = 1 pair of dark dots



Two dark dots, specifications define the minimum distance between dark dots

### 5.1. Proximity of Pixel Defects

Because pixel and sub-pixel defects of the same type that are nearby one another may be more noticeable, there are specific tolerances for the proximity of pixel defects. In the table below you can find specifications about:

- Allowed amount of adjacent dark dots (adjacent dark dots = 1 pair of dark dots)
- Minimum distance between dark dots
- Total number of all defective dots

## 5.4. Pixel Defect Tolerances

In order to qualify for repair due to pixel defects during the warranty period, a PDP / TFT panel in a Plasma / LCD display must have pixel or sub-pixel defects exceeding the tolerances listed in the following table.

BRIGHT DOT EFFECT	ACCEPTABLE LEVEL
1 lit sub pixel	2
BLACK DOT EFFECT	ACCEPTABLE LEVEL
1 dark sub pixel	10
TOTAL DOT DEFECTS	12

## 5.5. Mura

Dark spots or patches may occasionally appear on some LCD panels. This is known within the industry as Mura, which is a Japanese term for “unevenness.” It is used to describe an irregular pattern or area in which uneven screen uniformity appears under certain conditions. Mura is a result of the deterioration of the liquid crystal alignment layer and is most commonly caused by long-term operation under high ambient temperatures. It is an industry-wide phenomenon and Mura is not repairable or covered by our warranty terms. Mura has been around since the introduction of LCD technology and with screens getting bigger and in operation 24/7, many displays are running in low light conditions. This all adds to the possibility of Mura affecting displays.

### How to Spot Mura

There are many symptoms of Mura and also multiple causes. Several of these are listed below:

- Impurities or foreign particles in the crystal matrix
- Uneven distribution of LCD matrix during manufacturing
- Non-uniform luminance distribution of the backlight
- Panel assembly induced stress
- Flaws within the LCD cells
- Thermal induced stress - high temperature operation over long periods of time

### How to Avoid Mura

Although we can not guarantee the complete eradication of Mura every time, the appearance of Mura can be minimized by using these methods:

- Lower the backlight brightness
- Use a screen saver
- Reduce the ambient temperature around the unit

## **6. Cleaning and Troubleshooting**

### **6.1. Cleaning**

#### **Caution When Using the Display**

- Do not bring your hands, face or objects close to the ventilation holes of the display. The top of the display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries may occur if any body parts are brought too close. Placing any object near the top of the display could also result in heat-related damage to the object as well as the display itself.
- Be sure to disconnect all cables before moving the display. Moving the display with its cables attached may damage the cables and thus cause fire or electric shock.
- Disconnect the power plug from the wall outlet as a safety precaution before carrying out any type of cleaning or maintenance procedure.

#### **Front Panel Cleaning Instructions**

- The front of the display has been specially treated. Wipe the surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface becomes dirty, soak a soft, lint-free cloth in a mild detergent solution. Wring the cloth to remove excess liquid. Wipe the surface of the display to remove dirt. Then use a dry cloth of the same type to dry.
- Do not scratch or hit the surface of the panel with fingers or hard objects of any kind.
- Do not use vaporous substances such as insert sprays, solvents and thinners.

#### **Back Panel Cleaning Instructions**

- If the cabinet becomes dirty, wipe the cabinet with a soft, dry cloth.
- If the cabinet is extremely dirty, soak a lint-free cloth in a mild detergent solution. Wring the cloth to remove as much moisture as possible. Wipe the cabinet. Use another dry cloth to wipe over until the surface is dry.
- Do not allow any water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, operating problems and electrical and shock hazards may result.
- Do not scratch or hit the cabinet with fingers or hard objects of any kind.
- Do not use corrosive substances such as insert sprays, solvents and thinners on the cabinet.
- Do not place anything made from rubber or PVC near the cabinet for extended periods of time.

## 6.2. Troubleshooting

<b>Symptom</b>	<b>Possible Cause</b>	<b>Remedy</b>
No picture is displayed.	<ol style="list-style-type: none"><li>1. The power cord is disconnected</li><li>2. The power switch is not switched on</li><li>3. The display is in standby mode</li></ol>	<ol style="list-style-type: none"><li>1. Plug in the power cord</li><li>2. Make sure the power switch is on</li><li>3. Touch the display to exit standby</li></ol>
Interference on the display or audible noise.	Caused by surrounding electrical appliances or fluorescent lights.	Move the display to another location to see if the interference is reduced.
No sound is heard.	<ol style="list-style-type: none"><li>1. Volume is turned all the way down</li><li>2. MUTE is turned on.</li></ol>	<ol style="list-style-type: none"><li>1. Press [+] or [-] button to hear sound.</li><li>2. Switch MUTE off</li></ol>
After-images can still be seen on the display after the display is turned off.	A still picture is displayed for an over extended period of time.	Do not allow a still image to be displayed for an extended period of time as this can cause a permanent after-image to remain on the display.

## 7. Technical Specifications

<b>Panel</b>	
Diagonal Screen Size	55"
Optimum Resolution	3840 (H) X 2160 (V) @ 60Hz
Brightness	Typ 350cd/m <sup>2</sup> ; min 300cd/m <sup>2</sup> ;
Contrast Ratio (Typical)	4500 : 1
Analog	72% NTSC
Response Time (Typical)	6.5ms
Pixel Pitch	0.315 mm x 0.315 mm
Anti-Glare Coating	Yes (with Anti-Fingerprint Coating)
Aspect Ratio	16 : 9
Color Depth	10-bit
Viewing Angle	178°(H) / 178°(V)

<b>Touch</b>	
Multi-Touch Technology	Infrared Touch
Touch Points	20 Simultaneous Touch Points
Protection Glass	3mm Tempered Glass
Refresh Rate	> 130Hz
Minimum Touch Object	2mm
Response Time	< 8ms

<b>System</b>	
CPU	Arm RK3588 Processor
RAM	8GB DDR4
Storage	128GB EMMC
Wireless	Wi-Fi 6: IEEE 802.11ax/ac/a/b/g/n Compatible Bluetooth Version: 5.2
Operating System	VibeOS (Based on Chromium OS)



<b>Power</b>	
Power Source	AC 100-240V, 50-60 Hz
Consumption (Typical)	≤ 200 W
Consumption (Standby)	≤ 0.5 W
Speaker	2*10W

<b>Connections</b>	
① USB-C	SuperSpeed USB3.0
② USB-C	SuperSpeed USB3.0/ Displayport out
③ USB-C	DisplayPort in for touchback control
④ HDMI-in	HDMI 2.0

<b>Board</b>	
Product Size	50.7 (W) x 29.3 (H) x 3.0 (D) in
Package Size	55.9 (W) x 34.5 (H) x 7.5 (D) in
Product Weight	50.7 lb
Gross Weight	64.6 lb
Accessories	Passive stylus * 2 Power cable*1 Quick start*1
VESA Mount	200 x 200 mm

<b>Stand</b>	
Product Size	50.0 (W) x 56.5 (H) x 26.4 (D) in
Package Size	46.1 (W) x 29.4 (H) x 8.5 (D) in
Product Weight	25.4 lb
Accessories	Installation manual

<b>Tap (optional)</b>	
Video input interface	USB-C (DisplayPort 1.2)
Maximum input resolution	4K@30 FPS
Transmission distance	15m
Touchback	Support

<b>Camera (optional)</b>	
Image Sensor	Sony CMOS, 8.42MP (4K) 1/2.8 inch
Sensor Resolution	3840 (H) x 2160 (V)
Frames Per Second	30 fps
Video Format	M-JPEG 4K@30fps 1080P@30fps 720P@30fps
Field of View	diagonal: 117.1°
Interface	USB2.0 Type-C
IR Filter	400-700nm
Lens	2G5P
Focal range	30cm-5m
Color	Silver
Power	5V-900mA (USB-Posered)



## **Vibe Inc.**

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<https://vibe.us>

2018 156th Ave NE, Office 165 Bellevue, WA 98007

Vibe Interactive Whiteboard

Designed by Vibe Inc in Seattle U.S. Made in China