

USER MANUAL



21,5" Fully Outdoor

Pictures are image files and may have variations from the actual product.

Changes on the product or specifications of the manual are subject to change without prior notice to improve performance or quality.

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Kuori

21,5" Fully Outdoor Touch Tablet

CE Conformity (Add EU Declaration of Conformity here)

21,5" Fully Outdoor Touch Tablet

UKCA Compliance (Add UKCA Declaration of Conformity here)

21,5" Fully Outdoor Touch Tablet

PSE Compliance (Add PSE Declaration of Conformity here)

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FCC Compliance (Add FCC Declaration of conformity here)

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Before Using the Product

Safety Precautions

Please be careful when handling this device and follow all the instructions, **warnings** and **caution** notes. If instructions are not followed, a serious or fatal injury or damage to properties may result.

Cleaning

Take care when cleaning the product as parts may become loose, disconnected or get scratched.

Please only use the following products when cleaning:

Use a dry microfiber cloth. Cleaning solutions should be alcohol based, non-staining detergents and must not be solvents like acetone.

IMPORTANT: The heat sinks and other areas of the body may heat up when using the screen, please let the screen cool down 30 minutes before moving or cleaning it.

Storage

It is recommended to store this product within the temperature range of 0°C and +40°C at 10% - 70% relative humidity. Please do not store below or above the limits of the range specified in Appendix "Technical Specification".

IMPORTANT: The heat sinks and other areas of the body may heat up when using the screen, please let the screen cool down 30 minutes before moving it.

Electricity and Safety

Electrical installation etc.

IMPORTANT:

Warnings!

- Only a certified electrician can install or disconnect the display power cord according to local regulations
- The display is delivered with a detachable 5m power cord which has three wires: live, neutral, and protective ground. All three wires must be connected according to their color coding.
- It is recommended to connect the power cable behind external RCD (Residual Current Device)
- Never bend the power cord or pull it with force. Furthermore, do not leave the power cord under heavy objects. These may cause damage to the cord, which can lead to a fire or electric shock.
- Do not place the product or power cord close to heat sources, as this may lead to fire or an electric shock.

Caution!

- Do not disconnect the power cord or cut power to the product while the product is running and being used. This can cause an electric shock or damage to the product.
- Only use the power cord provided by the manufacturer of this product. Do not use this product's power cord with other products. This can cause an electric shock or fire.
 - o If an issue occurs, the power cord must be disconnected to cut off the power to the product.
 - o Please note that the product is not completely turned off by only using the power button.
- When disconnecting the power cord from the power socket hold the plug, as an electric shock or fire may result otherwise.

Installation

IMPORTANT:

- Display must be mounted on a solid wall or pylon using dedicated Theft Protection Box and included mounting bracket. Always use included fasteners (M5 for VESA mount and M10 for pylon mount) for installation.
- If commercial VESA mount must be used in special cases, it must be certified for at least: 1) 25kg Weight or more, 2) 200*100 VESA mount found on the backside of the Display, 3) Outdoor Use and 4) Maximum Wind Load found at installation site. Please contact customer service for instructions.
- Never place the Display unsupported on top of a shelf, table or equivalent structure that can move or fall over. Never bolt it on furniture or equivalent that is not part of solid building structure.
- Falling display can cause serious personal injury or death.
- If existing Display is going to be moved to storage or relocated, same considerations as above should be applied

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Fully enclosed Theft Protection Box and mounting bracket with fasteners. Please contact Customer Service for all supported models.



Warnings!

- DO NOT PLACE CANDLES, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES. This can result in a fire.
- Do not install the product in spaces that are poorly ventilated or completely enclosed, to avoid an increased internal temperature as this may cause fire.
- When installing the product, keep it at a distance from the wall to allow sufficient ventilation and to avoid an increased internal temperature as this may cause fire.
- Keep any plastic packaging out of reach of children, as they are in danger of suffocating on plastic.
- Do not install the product on any unstable, insecure, or vibrating surfaces to prevent the product from falling and becoming damaged and/or causing injuries. Excessive vibration can damage the product or cause fire.
- As the product is heavy, install it on a flat and stable surface.
- Precautions during installation and storage

Caution!

- The product shall not be dropped while moving, as this may result in product damage or failure or personal injury.

- Do not lay down the product on its front, to prevent the screen from becoming damaged.
- Set down the product gently, to avoid potential product failure or personal injuries.
- In case of installation in unusual locations, the surrounding environment may cause serious problems in quality. Please contact customer service before installation. Among unusual locations are places where many fine dusts are generated, places where chemicals are used, places with too high or low temperatures, places with a lot of moisture or water and transportation equipment such as vehicles.

Operation

Warnings!

- Never open, disassemble, repair, or modify the product by yourself. The high voltage inside the product can lead to electric shocks or fires. Please contact the customer service for questions and repair services.
- Before the product is moved, always disconnect the power cable and all other connected cables to avoid damage to the power cord, electric shocks or fires.
- If the product produces abnormal sounds, burning smell or smoke, the power cord needs to be disconnected immediately to avoid risk of electric shocks or fire and the customer service must be contacted.
- Do not let children climb onto the product or hang from it, as they could become injured or seriously harmed.
- Never leave heavy objects etc. on top of the product. If reached for, the objects may fall and cause serious injuries.
- If the product was dropped or the outer casing is damaged, please disconnect the power cord. Do not continue the use of the product as this may result in an electric shock or fires.
 - o Please contact customer service to receive advice.
- Do not lift or move the product by pulling any cables or the power cord as this can result in product failure or damage, electric shocks, or fires from damaged cables.
- Do not drop objects or apply impacts to the product to avoid electric shocks or fires.
- In case of gas leakage, do not touch the product or the power plug as sparks can easily cause explosions or fire. The area should be ventilated immediately.
- Do not keep or use combustible sprays or inflammable substances close to the product to avoid explosions or fires.
- Do not insert any objects into the product (fans, ports, etc.) especially ones that burn easily (cardboard, paper, matches, cloth, etc.) or are metallic (coins, hairpins, needles, nails, etc.).
 - o In case of foreign substances, objects or water having entered the product, please disconnect the power cord to avoid product failures, damage, electric shocks or fires and contact customer service.
- Do not insert your fingers into the fans or other parts of the product as product failure or personal injuries may occur.

Caution!

- Leaving the screen fixed on a stationary image for an extended period may cause defective pixels or afterimage burn-in. Activating the power-saving mode or a screen saver with a moving picture if the product will not be used for an extended period is important.

- If you plan to not use the product for a longer period (holidays, vacations, etc.), please disconnect the power cord from as accumulated dust and heat can cause electric shocks, leakage, or fires.
- The product should be used at the recommended resolution and frequency to avoid deterioration of your eyesight.
- Looking at the screen too closely for an extended period can result in deterioration of eyesight.
 - o For every one (1) hour of using the product, rest your eyes for more than five (5) minutes, to relieve eye fatigue.
- Be cautious when adjusting the product position as excessive tilting of the product may result in the product falling and potentially injuring somebody or causing product damage.
- Heavy objects shall not be placed on the product as this may cause product failure or personal injuries.

Opening the device

Only the authorized service center is allowed to open the device. Removing or opening any screws or service doors on the housing may result in damage or injury. Please contact customer service for more details

Preparations

Components

Please find a list of the delivered components below:

- Display
- 5m Power Cord with IP67 Power Connector

Ports and Buttons

Ports and buttons are found on the bottom edge of the Display. Depending on Display model they might be mounted in different order than in this picture. All connectors are IP67 rated when matching sleeve is installed on the cable.

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Parts	Description
POWER	Android board reset button for image update
AIR VENT	GoreTex filter for removing humidity from inside
MAIN POWER	Red Mains Power Rocker Switch (100-230V AC line)
AC100V-240V	Power cable connector, 50/60Hz, 2A
RJ45	Ethernet port for internet connection.
TYPE_C	USB TYPE C port for Android image update
HDMI	HDMI port for external display (1080p output only)

Before Installing the Product (Installation Guide)

IMPORTANT: Please note that in open air installations the Display must be protected from midday sunlight with a Sun Shield or Theft Protection Box!

In order to prevent damage to the product or personal injuries, this product must be attached securely according to the installation instructions.

- Installation of the wall or floor mount shall be handled by an authorized installation company, to prevent the risk of a falling device which could lead to personal injuries or product damage.

Installation on a Perpendicular wall

The minimum distance between the surface of a perpendicular wall and the installed product must be at least 50 mm in order to allow enough room for ventilation!

Installation on an Indented Wall or enclosed space (e.g. theft protection case)

Only install the product on an indented wall or enclosed space if specifically discussed and allowed in writing by the manufacturer. Please contact the customer service for further information.

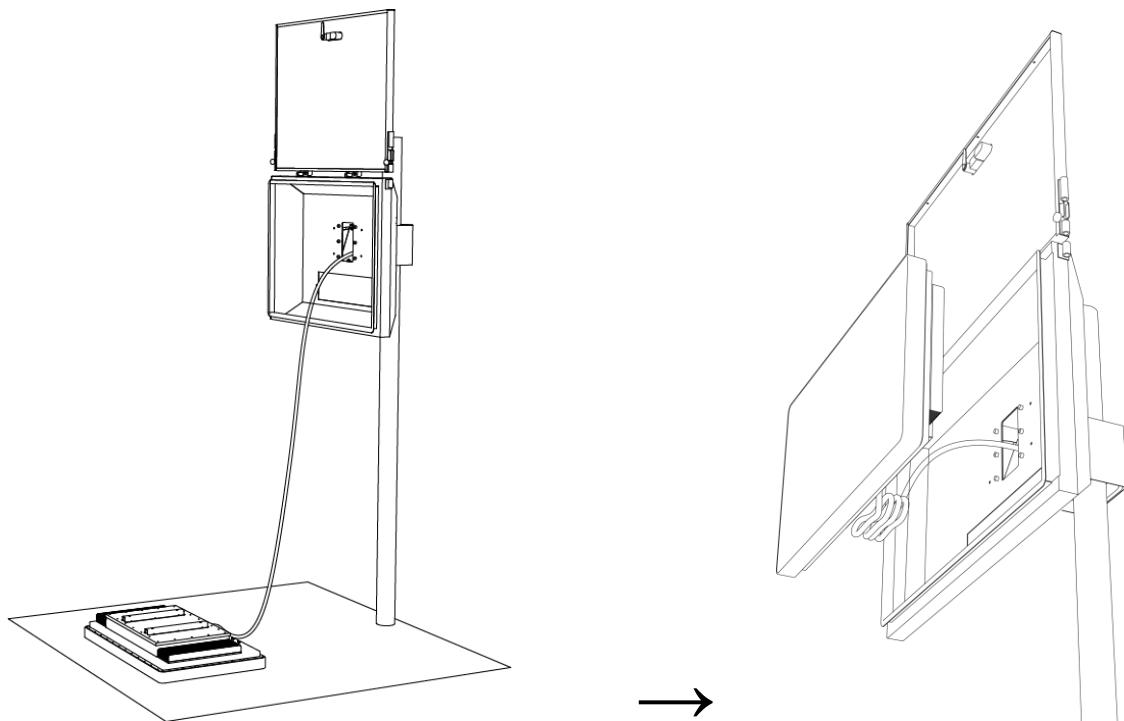
The minimum distance between the surface of an indented wall or enclosed space and the installed product must be at least 50 mm on all sides in order to allow enough room for ventilation!

The product must not be installed in an enclosed cabinet that has not been pre-approved by the manufacturer.

The ambient temperature has to be kept under 40 degrees Celsius.

Please do not block the air flow around the product or insert any objects or fingers.

IMPORTANT: When installing the screen, you should always leave enough loose cable to ensure the screen can be removed and set down on the ground. Loose cable can easily be looped inside the theft protection casing. This is crucial for installation, moving, maintenance and repairs.



Connections

Before Connecting

Pre-Connection Checkpoints

- Please read the user manual of each source device before connecting it with the product. The amount and the locations of ports on the source devices may differ between device versions
- Only connect the power cable once all other connections are completed. Connecting the power cable during the connection process can lead to injury or damage to the product.
- Please check the different types of ports that you want to connect at the side or the back of the product.

Before connecting cables

Please note that the color, shape, and other appearance of the parts may differ from the images below. Specifications are subject to change without notice to improve the overall quality of the product.

IMPORTANT: Please do not connect the power cable before you have connected all other cables.
Make sure that possible external display is connected to HDMI port before device is powered on.

Connecting a LAN Cable (RJ45)

It is recommended to install IP67 sleeve on the Ethernet cable before connector is crimped in place. This sleeve will lock into the Ethernet panel connector and provide both mechanical and IP67 protection for the connector. Please ask Customer Service for more details

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Use only shielded CAT7 twist pair cables in all installations (10/100 Mbps). Weatherproof, UV-protected cable types should be used in outdoor installations.

Connecting a USB Type C Cable

The USB C Connector should be only used by trained service technicians for FW update. This port does not support video output and it must NOT be used to power external 5V devices.

Connecting to an external HDMI monitor

An HDMI cable should be connected before the device and external display are connected to power. HDMI port will replicate 1080p image on the device to external display. Only high-quality HDMI cable should be used, and cable length should not exceed 5m.

First Steps

Turning the product on

In order to turn on the product, connect the device to power and then press the Red Power Switch (MAIN POWER) to the ON Position. Please make sure that the Power Switch is off when the power cable is being installed or repaired (only an authorized electrician is allowed to do this)

Powering the product off

In order to power off the product, please press the Red Power Switch (MAIN POWER) in the OFF position.

IP Rating and Sunlight

The device was designed and classified as an outdoor device with Ingress Protection rating (IP rating) 54. IP54 rated products are designed to offer protection from solids and liquids as follows:

Solids (IP5x): Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the safe operation of the equipment.

Liquid (IPx4): Water splashing against the enclosure from any direction shall have no harmful effect.

The device should not be immersed in water or any other liquids. If possible, the device should be installed so that it will not face direct sunlight. Sunshade or Theft Protection Box must be used to protect device from midday sun in outdoor installations.

Support

Contact Information

Kuori Oy
Nihtisillantie 3
02630 Espoo
Finland

support@kuori.tech
Helpdesk: +358 10 3371 710

Please note that support will be available only in English.

Additional notes:

- During the manufacturing process of this product and its nature, approximately 1 pixel per million may appear brighter or darker on the screen. However, this does not affect the performance of the product.
- The device is classified as an outdoor device, with Ingress Protection rating (IP rating) 54

Appendix

Warranty

Defining non-warranty cases

If service is requested, during the warranty period, service fees may apply in the following cases:

- The issue is not a product defect.
- The product damage has been caused by the customer or a third party.
- The product has been physically opened by a non-certified service technician.
- Other non-manufacturing defects

The issue is not a product defect

Into this category fall issues related to cleaning, adjusting, explaining, or re-installing etc. the product.

Some examples for this are:

- A service technician provides instructions on how to use the device.
- A service technician adjusts options without disassembly of the device.
- A service technician removes or cleans foreign objects, items, materials or dust inside the product.
- The external environment causes defects (internet, antennas, etc.)
- Reinstallation or additional connections after the initial first time of installation.
- Reinstallation in a different location.
- Requested software installation and setup.
- Instructions requested with combined use of another company's product or program.
- ...

The product damage has been caused by the customer

Into this category falls product damage that is caused by customer action such as mishandling, wrong repair, etc.

Product damage can be caused by reasons including but not limited to:

- Dropping the device
- External impacts
- Use of by the manufacturer unspecified products, parts, or components
- Repair from an external service company that is not authorized by the manufacturer.
- Repair through the customer.
- Adjustments or remodeling by the customer.
- Use of incorrect voltage
- Use of not authorized electrical connections.
- Any action that is not complying with the warnings and cautions mentioned in the user manual.
- Afterimage burns caused by long periods of stationary content

Other Cases

Into this category fall issues, product failure and damage that is caused by other impacts. For example:

- The product is damaged through a natural disaster such as fires, flooding, landslides, lightning, earthquakes, etc.

Please note that service fees may apply if a service is requested by the customer even if there is no defect on the product.

Service Information

Please note that this device should only be serviced by those authorized and specifically trained to ensure adequate servicing techniques.

Warranty Statement

Warranty period, terms and conditions are described in a separate document.

After the Warranty Period

Please contact customer service in case your device requires repairs after the warranty period has expired. Please note that the customer will be required to arrange the shipment of the device to the service center indicated by customer service and the return transportation. The customer will be responsible to cover all related transportation charges such as shipping, insurance, etc.

The manufacturer does not authorize other companies, distributors, resellers, agents, dealers, or other persons to modify, change or extend the warranty terms.

Afterimage Burn-in Prevention

Please do not leave the image running on a stationary image for an extended period of time. This may cause afterimage burn-in or defective pixels. Use the power-saving mode or a dynamic screen saver or power off the product to prevent afterimage burn.

Afterimage burn should not occur through normal operation. Normal operation refers to continuously changing images on the screen. Stationary images for an extended period of time can cause a slight voltage difference between electrodes in pixels that control liquid crystals. Such voltage differences can increase over time and the liquid crystals become thinner. As a result, an image can remain on the screen when the pattern changes. However, afterimage burn-in should not occur when the above-mentioned precautionary steps are taken.

Screensaver

Using a screensaver is highly recommended. Ideally use a screensaver that is either single colored or with a moving image.

Licenses and Trademarks

All licenses and trademarks are owned by their respective owners.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC.

The terms Intel Inside, the Intel Inside logo and atom are trademarks of the Intel Corporation.

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG Inc.

FCC Warning

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.

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

NOTE: 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.

Radiation Exposure Statement

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

Technical Specification

Technical Specifications are subject to change without notice to improve reliability, function, or design.

PRODUCT	21,5" FULL OUTDOOR	DATE	26.1.2022
VERSION	V1.0	APPROVED	JJ
TOUCH	PCAP, (+/- 3 mm) 10 touch points	RESOLUTION	21,5" / 1920x1080
SIZE	567x359x120 mm	WEIGHT	13KG
VOLTAGE	100-240V AC (AUTOMATIC)	POWER	150W

OPERATIONAL ENVIRONMENT

ENVIRONMENT	COMPATIBILITY/LIMITATION
DIRECT SUNLIGHT ON SCREEN	YES, SUN COVER RECOMMENDED
OUTDOOR INSTALLATION	YES, SUN COVER RECOMMENDED
INDOOR	YES
INGRESS PROTECTION (IP) RATING	54 AS CERTIFIED, 66 BY DESIGN
PANEL TYPE	1500 NITS, INDUSTRIAL
GLASS COATING	AG, IR GLASS

OPERATIONAL/STORAGE REQUIREMENTS

TYPE	MIN (°C)	MAX (°C)	HUMIDITY	NOTE
OPERATIONAL	-20°C	+45°C	90%RHD	AMBIENT TEMPERATURE
STORAGE (UNPOWERED)	-30°C	+60°C		DISPLAY MODULE

CONNECTIVITY

WIFI	2,4GHz	BLUETOOTH	BT 5.0 (ERD + BLE)	ETHERNET	1 IP67
USB A	N/A	USB C	1 TYPE 3.0, IP67	POWER	IP67 CONNECTOR
HDMI	1 IP67 (OUT)	RESET	1 IP67	MIC	N/A

ENGINE / ELECTRONICS

OS	ANDROID 9.0.1	CPU	A311D
STORAGE	32GB EMMC	RAM	4GB DDR4
HEATER	2x15W	FAN	2x12V

CERTIFICATION

IP RATING	54	EU (CE)	YES	CB	YES
JAPAN (PSE)	YES	US (FCC)	YES	UK	YES
CANADA (IC)	YES	NORWAY	CE MARK	SWITZERLAND	CE MARK
AUSRALIA	TBD	MEXICO	TBD	KAMBODZA	CE MARK

ACCESSORIES

PROTECTIVE CABINET	OPTIONAL	MOUNTING POLE	OPTIONAL
POWER CORD	IP67, DETACHABLE	MANUAL	ONLINE
SUN SHIELD	OPTIONAL	VESA	200x100