

# Scape® Lab

sla65-009

Operating instructions

# Scape® Lab

## Operating instructions

### Contents

|                                        |           |
|----------------------------------------|-----------|
| <b>1. General information</b>          | <b>4</b>  |
| 1.1. Safety instructions               | 4         |
| 1.2. Scope of delivery                 | 6         |
| 1.3. Cleaning information              | 6         |
| 1.4. Transportation instructions       | 6         |
| <b>2. Function and structure</b>       | <b>7</b>  |
| 2.1. Connections & controls            | 7         |
| 2.1.1. Touchscreen                     | 7         |
| 2.1.2. Remote control                  | 8         |
| <b>3. Connect</b>                      | <b>9</b>  |
| 3.1. Notes                             | 9         |
| 3.2. Connection to the power supply    | 9         |
| 3.3. Connection to the PC              | 9         |
| 3.4. Connection to the network         | 9         |
| <b>4. Switch on</b>                    | <b>10</b> |
| <b>5. Instructions for use</b>         | <b>11</b> |
| <b>6. Screen settings - OSD</b>        | <b>12</b> |
| 6.1. Using the OSD (on-screen display) | 12        |
| 6.2. Select image source               | 12        |
| <b>7. Troubleshooting tips</b>         | <b>13</b> |
| 7.1. Manufacturer - Support            | 13        |
| 7.2. Problems and solutions            | 14        |
| <b>8. Taking back old appliances</b>   | <b>16</b> |
| <b>9. Appendix</b>                     | <b>17</b> |
| 9.1. Technical data                    | 17        |
| 9.1.1. Scape® Lab 65                   | 17        |
| 9.1.2. Scape® Tangible 65              | 17        |
| 9.2. Technical drawings                | 19        |
| 9.2.1. Perspective                     | 19        |
| 9.2.2. Top view                        | 20        |
| 9.2.3. Front view                      | 21        |
| 9.2.4. Side view, right                | 22        |

## Notes

**This is a class A device according to EN55022.**

**Please also read 1.1 Safety instructions - Radio interference and interference.**

**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.**

**This Class A digital apparatus complies with Canadian ICES-003.**



This manual applies to the following device:

- Scape® Lab 65" (sla65-009 with st65-009)

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# 1. General information

This manual describes the safe commissioning, configuration and proper operation of the **Scape® Lab**.

If your device does not have an integrated PC, you can skip the chapters and instructions on the integrated PC. All other notes and instructions continue to apply without restriction. Please refer to any supplementary documents, such as installation instructions.

## 1.1. Safety instructions

Before commissioning and during operation of your **Scape® Lab** read the following safety instructions to protect yourself, your environment and the **Scape® Lab** from damage.

### Fires and electric shocks

Overloaded sockets, extension cables and power strips can cause fires and electric shocks.

- Avoid using power strips and extension cables wherever possible.
- Do not connect several extension cables or socket strips together.

### Overheating

Heat build-up can cause the screen and the integrated PC to overheat. This can lead to damage to the device.

- Ensure sufficient air circulation around the **Scape® Lab**.
- Make sure that all ventilation slots on the screen and integrated PC are always clear.

### Surge damage due to lightning

During thunderstorms, there is a risk of overvoltage damage to connected electrical appliances due to lightning strikes.

- Do not install the **Scape® Lab** during thunderstorms.
- Disconnect the appliances from the power supply during thunderstorms.

### Moisture, liquids and vapors

Moisture, liquids and vapors that enter the interior of the **Scape® Lab** can cause electric shocks or short circuits.

- Use the **Scape® Lab** only inside buildings.
- Do not allow any liquids to enter the inside of the **Scape® Lab** inside.
- Protect your **Scape® Lab** from vapors and moisture.

## Improper cleaning

Improper cleaning with harsh cleaning agents and solvents or dripping wet cloths can damage the **Scape® Lab**.

- Please note the information on cleaning your **Scape® Lab** (Chapter 1.3 Information on cleaning).

## Improper opening and repair

Improper opening and improper repairs can result in hazards for users of the appliances.

- Do not open the housing of the devices.
- Contact the manufacturer or specialist dealer for repairs.

## Radio interference and interference

Radio interference can be generated by any device that emits electromagnetic signals. Due to the large number of devices that transmit and receive radio waves, interference can be caused by overlapping radio waves.

- Do not use the **Scape® Lab** in places where the use of radio equipment is prohibited.
- Especially in hospitals, outpatient health centers, doctors' surgeries and other medical facilities, follow the instructions and directions of authorized persons to switch off radio devices in order to avoid interference with sensitive medical equipment.
- Ask your doctor or the manufacturer of your medical device (pacemaker, hearing aid, implant with electronic control, etc.) whether it is compatible with the use of your **Scape® Lab** and works without interference.
- If necessary, maintain the minimum distance of 15 cm recommended by medical device manufacturers to avoid interference with your medical device.

## Explosive environments

Under unfavorable circumstances, radio waves can cause fires or explosions in the vicinity of potentially explosive atmospheres.

- Do not install and operate the **Scape® Lab** near potentially explosive atmospheres, flammable gases, areas where the air contains chemicals or particles such as grain, dust or metal powder, or near blasting sites.
- In places with potentially explosive atmospheres and in the vicinity of blasting sites, follow the instructions for switching off electronic devices to avoid interference with the blasting and ignition systems.

## Load and damage to the surface

Rough, hard or sharp-edged materials and heavy objects can damage the screen surface of the **Scape® Lab**.

- Do not place any heavy objects on the screen.
- Only use objects with smooth or soft surfaces on the screen.
- Clean the undersides of the objects before and after each use.

## 1.2. Scope of delivery

The following accessories are included with your **Scape® Lab**:

- Multiple distributor with earthed power cable for connection to the mains (only for devices with PC)
- Wireless keyboard with trackpad (only for devices with PC)
- Network cable for connection to a LAN
- HDMI cable for connection to a PC
- Schuko cold appliance cable for connection to the mains supply
- Screen cleaning kit
- Remote control
- Operating instructions (if necessary by email)

For devices with a PC, multiple distributors, HDMI, network and power cables are already built into the device.

## 1.3. Cleaning information

The touch sensor of the **Scape® Lab** does not usually require maintenance. Nevertheless, it is recommended to clean the glass surface of the screen regularly.

- Disconnect the appliance from the power supply before cleaning.
- Typically, a solution of isopropyl alcohol and water (mixing ratio 50:50) or the enclosed screen cleaning kit are best suited for cleaning the touch sensor.
- Apply the solution to a soft, lint-free cloth. Avoid coarse materials.
- Moisten the cloth and clean the glass surface. Only apply the liquid to the cloth and never directly to the appliance. This will prevent liquid from penetrating the inside of the appliance or staining the frame.

## 1.4. Transportation instructions

The safest way to transport your device is in a flight case for the **Scape® Lab** (available separately).

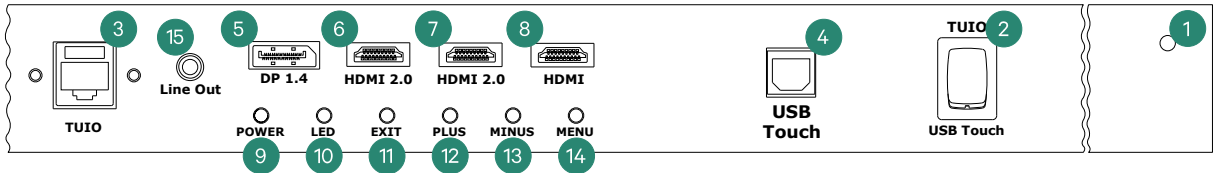
- The appliance is very heavy. Make sure that at least two people lift and carry the appliance.
- Do not transport the appliance upside down.
- Lock the castors of the frame during transportation.
- Secure the device or flight case against slipping and tipping.

## 2. Function and structure

### 2.1. Connections & controls

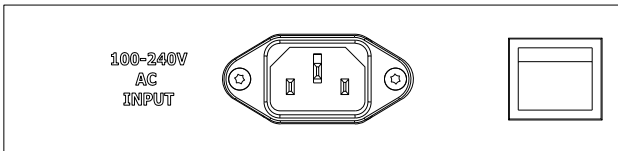
#### 2.1.1. Touchscreen

The screen of the **Scape® Lab** is already installed and connected to the integrated PC ready for operation.



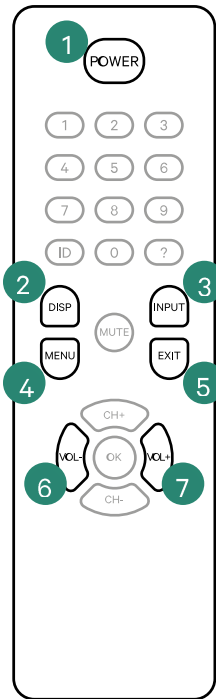
|    |                                                                         |
|----|-------------------------------------------------------------------------|
| 1  | IR sensor for remote control                                            |
| 2  | Touch TUIO / USB Touch switchover                                       |
| 3  | RJ-45 Lan interface - for using the <b>Touch &amp; Object Assistant</b> |
| 4  | USB connection type B - for direct connection of touch and PC           |
| 5  | DisplayPort 1.4 input                                                   |
| 6  | HDMI 2.0 input (UHD 60 Hz)                                              |
| 7  | HDMI 2.0 input (UHD 60 Hz)                                              |
| 8  | HDMI 1.4 input                                                          |
| 9  | Stand-by <sup>*(17)</sup>                                               |
| 10 | Status LED                                                              |
| 11 | Close OSD / Back / Display input selection <sup>*(21)</sup>             |
| 12 | Plus / Right <sup>*(23)</sup>                                           |
| 13 | Minus / Left <sup>*(22)</sup>                                           |
| 14 | OSD displays / confirm selection <sup>*(20)</sup>                       |
| 15 | Line Out output                                                         |

\*analogous to the button on the remote control



|    |                                                  |
|----|--------------------------------------------------|
| 16 | IEC socket for connection to 100-240 V, 50/60 Hz |
| 17 | Main switch of the power supply                  |

2.1.2. Remote control



|   |                                                     |
|---|-----------------------------------------------------|
| 1 | Stand-by <sup>*)</sup> (9)                          |
| 2 | Show display mode selection                         |
| 3 | Display input selection                             |
| 4 | OSD displays / confirm selection <sup>*)</sup> (14) |
| 5 | Close OSD <sup>*)</sup> (11)                        |
| 6 | Left / Minus <sup>*)</sup> (13)                     |
| 7 | Right / Plus <sup>*)</sup> (12)                     |

<sup>\*)</sup>analogous to the button on the screen

All buttons on the remote control that are not described are not used to operate the **Scape® Lab** and have no function.

## 3. Connect

The **Scape® Lab** is supplied ready for use. All devices are fully assembled and wired. Place the appliance in a suitable location and connect it to the mains.

### 3.1. Notes

**Observe the following instructions when setting up the appliance:**

- Give the **Scape® Lab** sufficient time to adjust to the ambient temperature. Otherwise the device may be damaged or destroyed by condensation inside the device.
- Operate the **Scape® Lab** indoors only.
- Place the **Scape® Lab** not be exposed to direct sunlight.

### 3.2. Connection to the power supply

Connect the **Scape® Lab** to the mains using the power distributor's power cable via a suitable socket. Then set the main switch on the center bar to "I".

When disconnecting the appliance from the mains, always grasp the plug and do not pull on the cable. Do not touch the plug with wet hands.

### 3.3. Connection to the PC

Connect the display with the enclosed HDMI cable via HDMI (see **chapter 2.1 - Connections & controls - point 7**) to your application PC.

The display automatically recognizes the selected interface.

In order to use your **Scape® Tangible** as a pure USB HID touch input device, connect the USB port on the bottom of the device (see **chapter 2.1 - Connections & controls - point 4**) directly to your application PC.

Set the changeover switch for the touch signal to "Touch USB" (see **chapter 2.1 - Connections & operating elements - point 2**). However, **Scape X®** object recognition is not possible in this way.

### 3.4. Connection to the network

The **Scape® Tangible** works completely without an internet connection.

To use the **Scape X®** object recognition or touch via TUIO, connect the network connection on the underside of the **Scape® Tangible** (see **chapter 2.1 - Connections & operating elements - point 3**) with your application PC or your existing network via which your application PC can be reached. Set the changeover switch for the touch signal to "TUIO" (see **chapter 2.1 - Connections & operating elements - point 2**).

By default, the integrated **Touch & Object Assistant** has the IP address 10.0.0.20 with the subnet 255.255.255.0, but can also receive IP addresses from a DHCP server. You can then reach the **Touch & Object Assistant** via the assigned IP address or the host name (requires a DNS server in the network). The host name can be found on the type plate on the underside of the **Scape® Tangible**.

For further information on setting up the **Scape X®** object recognition, read the operating instructions for the "**Touch & Object Assistant**".

## 4. Switch on

Switch on the display at the main switch (see **chapter 2.1.1 - Touchscreen - point 16**).

The device takes around 1.5 hours to reach its final operating temperature after being switched on. During this time, the device's touch sensor constantly adapts to its environment. This has a direct effect on long-term object detection.



**If object detection does not work properly at any point on the device, remove all objects from the device for 2 seconds.**

## 5. Instructions for use

### **Clean the touch sensor and the objects used regularly during operation.**

Fine sand and quartz dust in particular can cause heavy wear on the sensor glass if objects are used intensively. If necessary, use protective films to protect your touch sensor from scratching.

#### **Interesting:**

*We test our objects in robot-supported load tests on our displays for wear and tear on the objects and effects on the sensor disks.*

*For these tests, we let a cobot use objects for approx. 15h / or 10km continuously on a Scape Tangible 55.*

*A distance of 10 km on the sensor corresponds to several years of intensive use of an object.*

*The robot simulates*

*average object use in a "normal" application.*

*It performs random translational and rotational movements with the object on the display.*

*The object is repeatedly lifted up and placed back down in another area of the screen.*

*Only movements during which the object is in contact with the sensor are counted as distance traveled.*

*The force with which the object is pressed onto the screen is approx. 2N.*

*The test environment is neither clean nor excessively dirty.*

*Neither the sensor nor the object are cleaned during a test run.*

***As a result, we have so far been unable to detect any excessive object wear or damage to the sensor glass.***

### **Avoid putting too much strain on the touch sensor.**

To ensure error-free object detection, the total mass of all objects on the device must not exceed **3 kg**.

### **Always ensure that your appliance is sufficiently cooled.**

This considerably extends the service life of the installed panel.



**Signs of wear on the sensor and objects are unavoidable under normal use.**

**Avoid an application design that encourages the use of objects on a small exclusive area of the device.**

**Even if the maximum load for the sensor is higher, you should not exceed a weight of 500g per object.**

## 6. Screen settings - OSD

### 6.1. Using the OSD (on-screen display)

The OSD of the **Scape® Lab** offers various setting options for the screen, such as "Signal input", "Display mode" and color and brightness settings.

The factory settings are suitable for most applications.

Press the **Menu** button (4) to display the OSD (see **chapter 2.1.2 - Remote control**).

Use the **Plus** (7) and **Minus** (6) buttons to navigate through the individual menu items. Press the **Menu** button (4) to go to the next level of the selected menu item or setting.

Use the **Plus** (7) and **Minus** (6) buttons to adjust the values for the respective setting or to select the corresponding option. The **Menu**

button (4) activates the selected option and returns to the last selection level.

**The Exit** button (5) **sets** the setting to its original value and returns to the next higher menu level or closes the OSD if you are at the top menu level.

The OSD is automatically closed after a few seconds of inactivity.

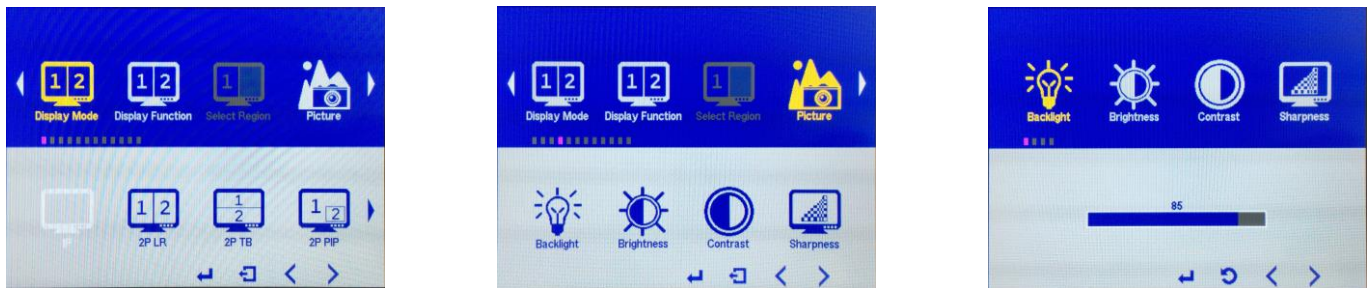


Abb. 1: Menu opened - select menu item Menu item selected - confirm

Setting opened - set value

### 6.2. Select image source

If no active device is connected to the selected input of the screen, you can only use the OSD to a limited extent. Press **Input** (43) or **Exit** (5) on the IR remote control to open the input selection. Use the **Plus** (7) and **Minus** (6) buttons to select the appropriate input and confirm your selection with the **Menu** button (4).



Abb. 2: Input selection

The signal source is set to "Auto" by default and automatically recognizes the corresponding input.

## 7. Troubleshooting tips

Do not open the housing of the **Scape® Lab** or the PC unit yourself.

If your **Scape® Lab** is not working as intended, refer to **Chapter 7.2 - Problems and solutions** to see if there is a solution to your problem.

If you cannot find a solution, please contact **Interactive Scape Hardware Support**. You can reach them on weekdays on **+49 30 698 094 150**.

### 7.1. Manufacturer - Support

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Wilhelmine-Gemberg-Weg 6  
10179 Berlin

+49 (0)30 698 094 150

## 7.2. Problems and solutions

| Error                                                                         | Possible cause                                                           | Possible troubleshooting                                                                                                       |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>The screen shows no picture even though the PC is switched on.</b>         | The DisplayPort or HDMI cable is not plugged in correctly                | Check DisplayPort or HDMI cable for correct installation                                                                       |
|                                                                               |                                                                          | Replace any defective cables                                                                                                   |
|                                                                               | The screen is switched to the wrong signal input.                        | Set the signal input correctly                                                                                                 |
|                                                                               | The screen is switched to standby using the IR remote control or the OSD | Deactivate stand-by mode using the IR remote control or the OSD buttons                                                        |
|                                                                               | The screen is switched off at the main switch of the device              | Switch the device on at the main switch of the device                                                                          |
| <b>Touch and Object Assistant is not available</b>                            | The screen system has not started correctly                              | Switch the device off at the main switch, wait 10 seconds and switch it on again. The start-up process takes approx. 1 minute. |
|                                                                               | Network cable is not installed correctly                                 | Check that the network cable is correctly installed between the screen and the PC                                              |
|                                                                               | Network settings on the PC are not correct                               | Check the network settings of your PC. The default IP address of your Scape Tangible is 10.0.0.20 (subnet 255.255.255.0)       |
| <b>"No Touch Device Found" is displayed in the Touch and Object Assistant</b> | TUIO / USB Touch switch is set to USB Touch                              | Switch the TUIO / USB Touch switch to TUIO Touch                                                                               |
| <b>Object tracking does not work in the touch and object test</b>             | Invalid Scape X license                                                  | Check whether a valid Scape X license is stored on your device                                                                 |
|                                                                               | TUIO / USB Touch switch is set to USB Touch                              | Switch the TUIO / USB Touch switch to TUIO Touch                                                                               |
| <b>Touch tracking does not work in the touch and object test</b>              | TUIO / USB Touch switch is set to USB Touch                              | Switch the TUIO / USB Touch switch to TUIO Touch                                                                               |

|                                                  |                                                                   |                                                                                                                                                                                  |
|--------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Objects are poorly recognized</b>             | Objects improperly attached to conductive materials               | Check whether you are using your Scape X objects in accordance with the specifications in the "Scape X objects" manual                                                           |
|                                                  | High electromagnetic radiation in the environment                 | Calibrate the sensor in Touch and Object                                                                                                                                         |
| <b>Objects are recognized with incorrect IDs</b> | Objects are used improperly                                       | Check whether you are using your Scape X objects the right way round (top side away from the sensor) or whether you have attached them improperly to conductive material sheets. |
|                                                  | Configuration of the objects in the touch and object test changed | Check the individual incorrectly recognized objects in the Touch and Object Test for changed ID settings                                                                         |



**Always carry out touch and object recognition tests using the Touch and Object Test in the Touch and Object Assistant. This is the only way you can be sure that the cause of your observations lies in an application or the operating system of the connected PC.**



**Unfortunately, we cannot provide support for connected PCs that were not supplied by Interactive Scape.**



**To avoid possible support costs for you, please check whether your problem can be solved with one of the above measures**

## 8. Taking back old appliances

As a supplier and manufacturer, we are obliged under the German Electrical and Electronic Equipment Act (ElektroG) to take back all electrical and electronic equipment that we place on the market and to recycle it in accordance with certain ecological standards.

All devices and system solutions marketed by Interactive Scape in Germany can be registered for return at the end of their service life by sending an email to [support@interactive-scape.com](mailto:support@interactive-scape.com) or by calling Interactive Scape.

We will send you an order confirmation for the return. You can then return the goods to us and we will ensure that they are disposed of in an environmentally friendly and legally compliant manner.

- Waste batteries and accumulators that are not permanently installed in the waste electrical appliance must be **removed from the appliance and completely discharged** before being returned (ElektroG 3 § 10 Paragraph 2 Sentence 2).
- When returning old appliances containing batteries and/or accumulators, please observe the relevant shipping instructions.
- When returning lithium batteries, please mark the shipment with the words **LITHIUM BATTERIES FOR RECYCLING**.



The symbol of a crossed-out wheeled garbage can regularly shown on electrical and electronic appliances indicates that the appliance in question must be collected separately from unsorted municipal waste at the end of its service life.

## 9. Appendix

### 9.1. Technical data

#### 9.1.1. Scape® Lab 65

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Item number            | sla65-009                                                     |
| Dimension (L x W x H)) | 152.8 x 90.3 x 92.0 cm                                        |
| Weight                 | 109 kg                                                        |
| Material               | Steel frame, powder-coated, deep black RAL9005 fine structure |

#### Features

|                                       |                                                      |
|---------------------------------------|------------------------------------------------------|
| Installation space for PC (L x W x H) | 43.0 x 25.0 x 45.0 cm                                |
| optional                              | Integrated SilentPC + switchable 8-way socket outlet |
| Rollers                               | 4 castors (2 lockable)                               |

#### Technical information

|                   |                       |
|-------------------|-----------------------|
| Operating voltage | 100 - 240 VAC 50/60Hz |
| Power consumption | max. 560 W            |

#### 9.1.2. Scape® Tangible 65

#### Display

|                          |           |                                     |
|--------------------------|-----------|-------------------------------------|
| Screen diagonal          |           | 64.5 inch                           |
| Resolution               |           | 3840 x 2160 (UHD) @60 Hz            |
| Format                   |           | 16:9                                |
| Brightness (panel)       |           | 700 cd/m²                           |
| Contrast (panel)         |           | 4000:1                              |
| Backlight                |           | LED                                 |
| Point of view            |           | 178° / 178°                         |
| Color gamut              |           | 16.7 million                        |
| Latency (on/off)         |           | 8 ms                                |
| Backlight - service life |           | 50.000 h                            |
| Pixel class              |           | ISO 9241-307 (Pixel Error Class II) |
| Operating period         |           | 24/7                                |
| Max. Ambient humidity    | Operation | 10 ~ 90% (non-condensing)           |
| Max. Ambient humidity    | Storage   | 10 ~ 90% (non-condensing)           |
| Max. Ambient temperature | Operation | 0 ~ 35 °C / 32 ~ 95 °F              |

|                          |         |                                             |
|--------------------------|---------|---------------------------------------------|
| Max. Ambient temperature | Storage | -20 ~ 60 °C / -4 ~ 140 °F                   |
| Dimension (W x H x D)    |         | 1521.5 x 896.4 x 97 mm                      |
| Weight                   |         | 72 kg                                       |
| Fastening                |         | VESA 400x400 mm, 600x400 mm, 800x400 mm     |
| Max. Tilt angle          |         | 0° - 180°                                   |
| Screen orientation       |         | Portrait and landscape format, flat (table) |
| Air flow rate Cooling    |         | 0.5 m³ / min                                |
| Material                 |         | Steel, powder-coated, matt black            |

#### Touch controller

|            |  |                                                |
|------------|--|------------------------------------------------|
| Sensor     |  | Projective Capacitive (PCAP) - Silver Nanowire |
| USB Touch  |  | 80 Touches                                     |
| TUIO Touch |  | >100 Touches                                   |

#### Interfaces

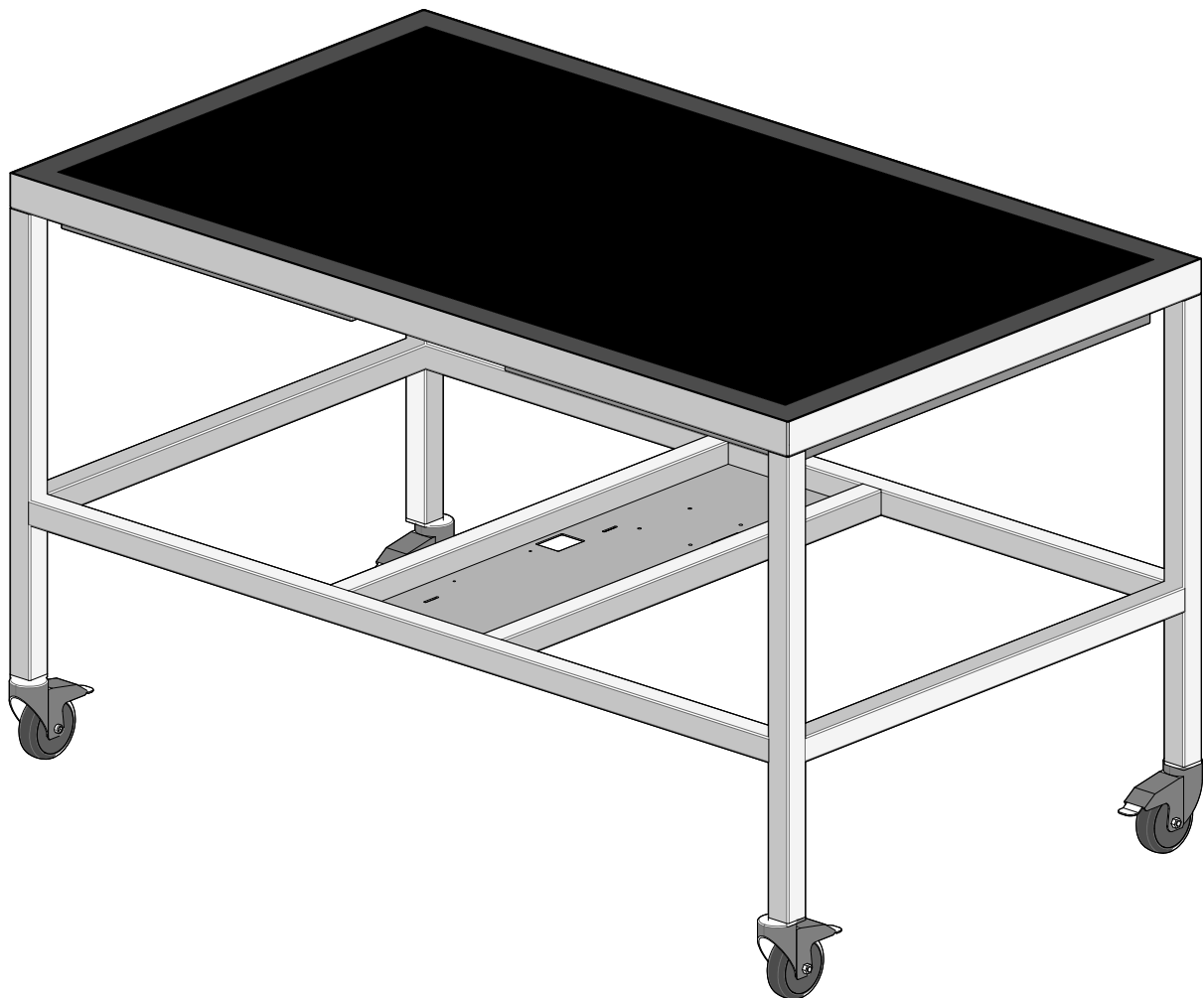
|       |  |                                                |
|-------|--|------------------------------------------------|
| Touch |  | HID USB / TUIO 1.1 / 2.0                       |
| Video |  | 2x HDMI 2.0 / 1x HDMI 1.4 / 1x DisplayPort 1.4 |

#### Technical information

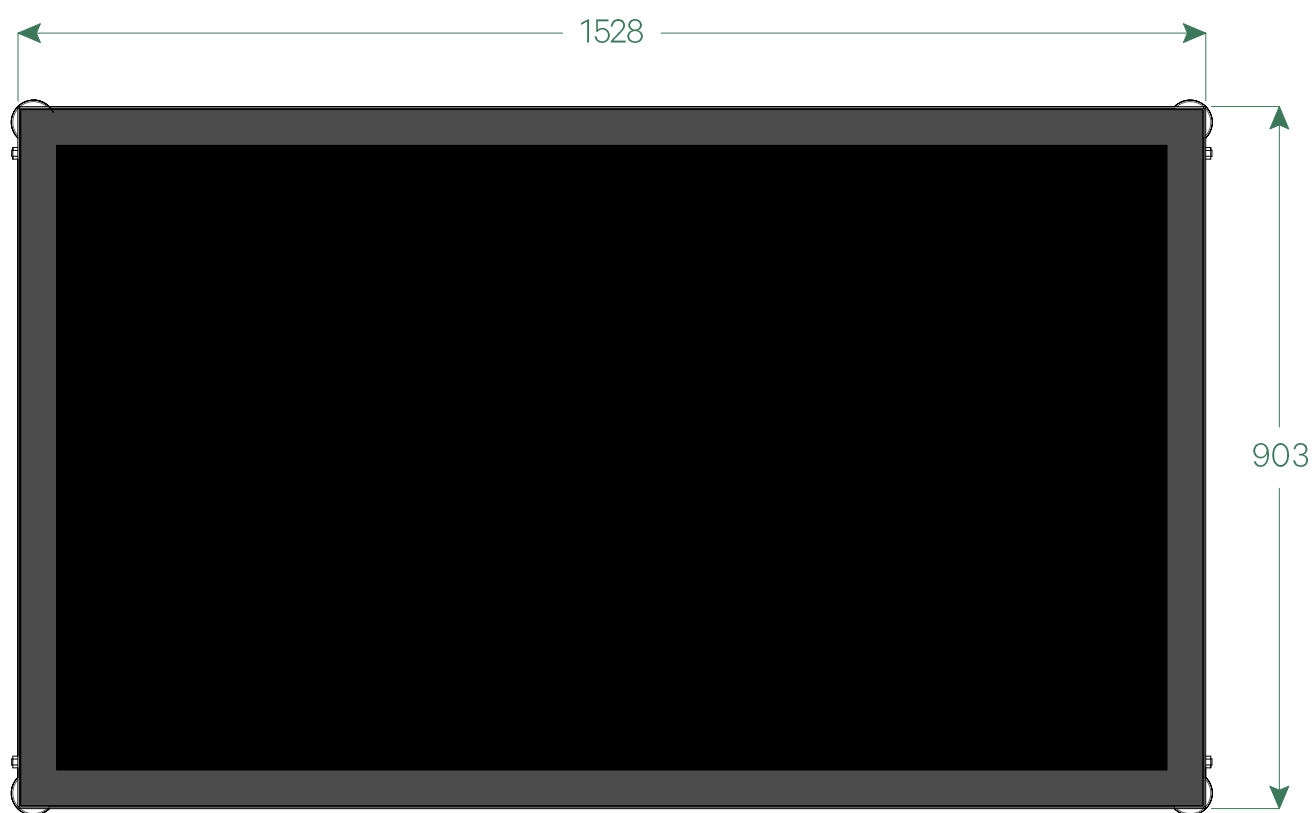
|                   |  |                       |
|-------------------|--|-----------------------|
| Operating voltage |  | 100 - 240 VAC 50/60Hz |
| Power consumption |  | 230 W                 |
| Certification     |  | CE, RoHS, FCC         |

## 9.2. Technical drawings

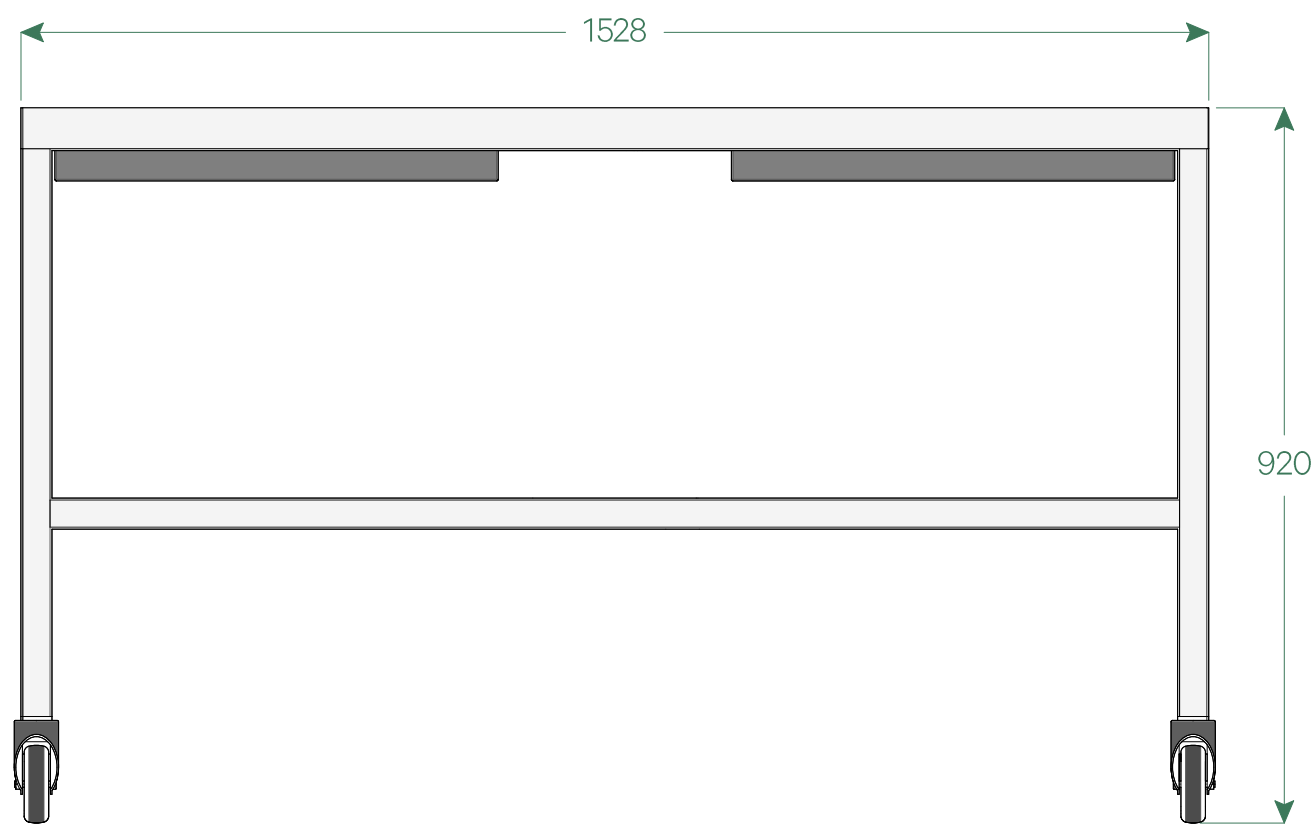
### 9.2.1. Perspective



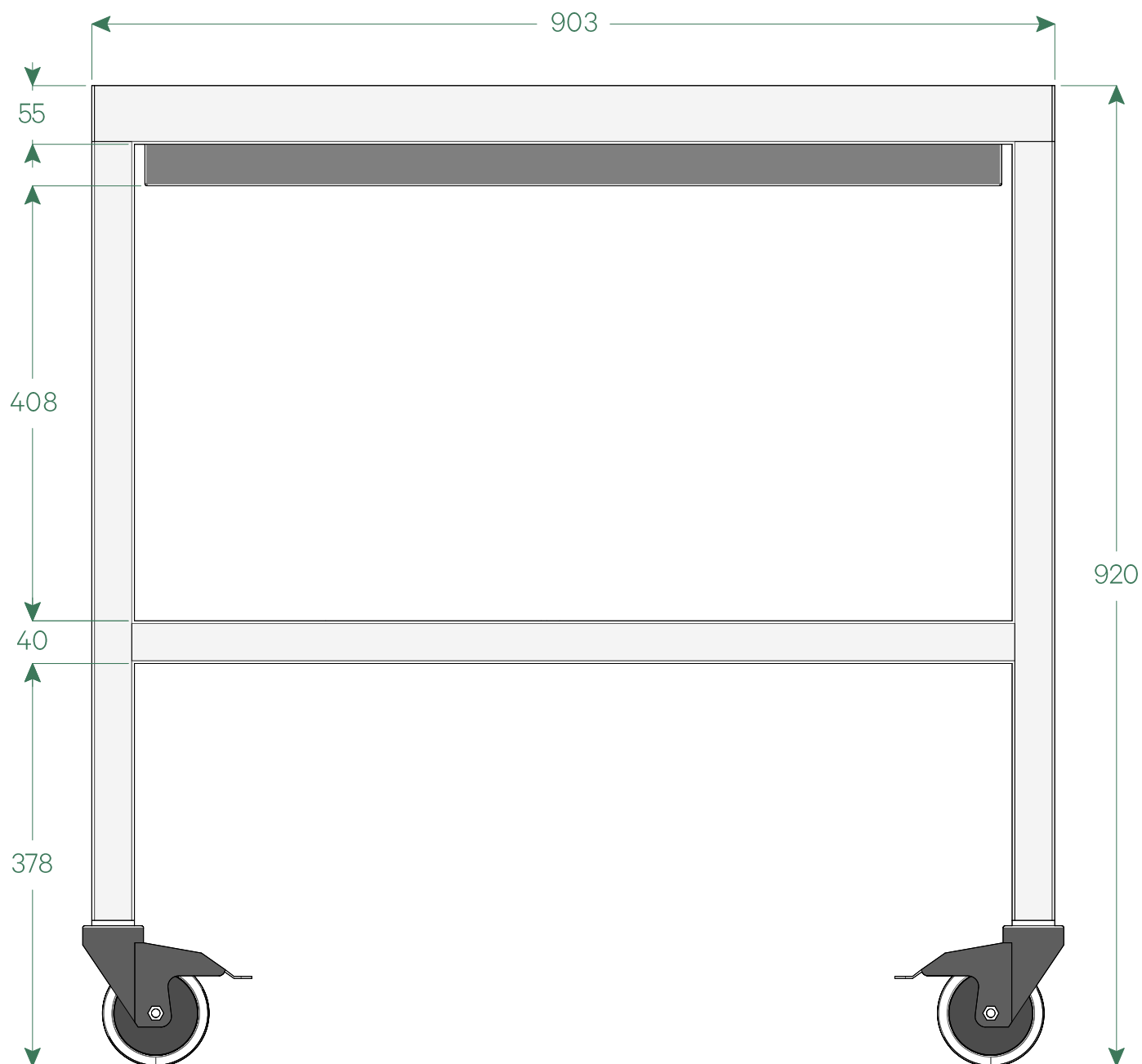
### 9.2.2. Top view



9.2.3. Front view



#### 9.2.4. Side view, right



A large, light blue geometric shape, resembling a stylized 'C' or a corner, occupies the right side of the page. It has a vertical left edge, a horizontal top edge, and a diagonal bottom edge that slopes from the top-left towards the bottom-right.

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