



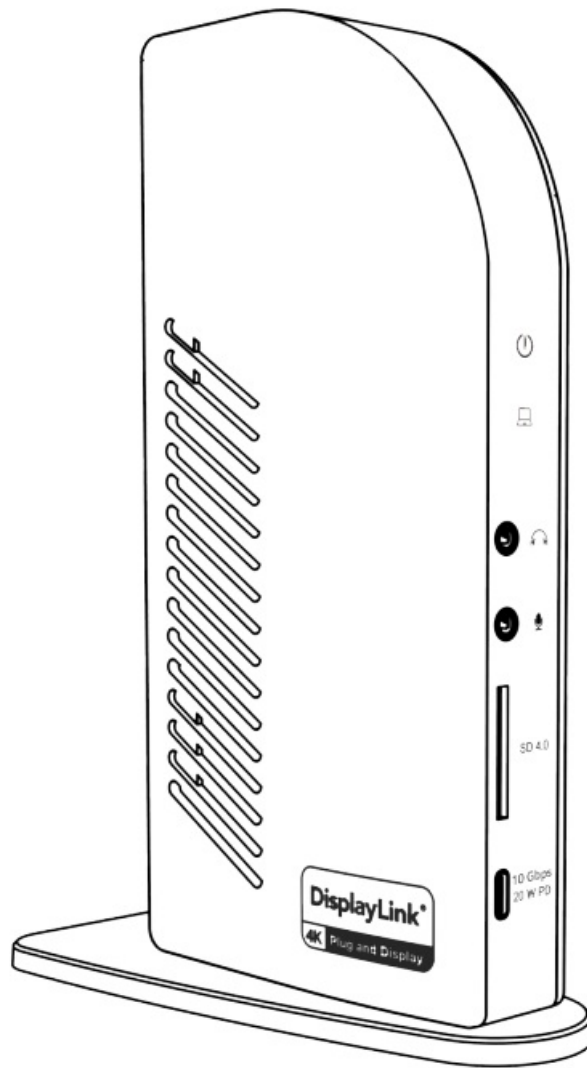
# ICY BOX IB-DK2256AC DisplayLink Docking Station Instruction Manual

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**ICY BOX®**

DisplayLink® DockingStation with triple video output  
Handbuch IB-DK2256AC



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## Safety information IB-DK2256AC

Please read carefully the following information to prevent injuries, damage to material and device as well as data loss:

### Warning levels

Signal words and safety codes indicate the warning level and provide immediate information in terms of the probability of occurrence as well as the type and severity of the consequences if the measures to prevent hazards are not complied with.



**DANGER**

Warns of a directly hazardous situation causing death or serious injury.



**WARNING**

Warns of a potentially hazardous situation that may cause death or serious injury.



### **CAUTION**

Warns of a potentially hazardous situation that may cause minor injury.

### **IMPORTANT**

Warns of a potential situation that may cause material or environmental damage and disrupt operative processes.

### **Risk of electrical shock**

Contact with parts conducting electricity Risk of death by electrical shock



### **WARNING**

- Read the operating instructions prior to use
- Make sure the device has been de-energised prior to working on it
- Do not remove contact protection panels
- Avoid contact with conducting parts
- Do not bring plug contacts in contact with pointed and metal objects
- Use in intended environments only
- Operate the device using a power unit meeting the specifications of the type plate only!
- Keep the device/power unit away from humidity, liquid, vapour and dust
- Do not modify the device
- Do not connect the device during thunderstorms
- Approach specialist retailers if you require repairs

### **Hazards during assembly (if intended)**

#### **Sharp components**

Potential injuries to fingers or hands during assembly (if intended)

### **CAUTION**

- Read the operating instructions prior to assembly
- Avoid coming into contact with sharp edges or pointed components
- Do not force components together
- Use suitable tools
- Use potentially enclosed accessories and tools only

### **Hazards caused by a development of heat**

Insufficient device/power unit ventilation Overheating and failure of the device/power unit

### **IMPORTANT**

- Prevent externally heating up components and ensure an exchange of air
- Do not cover the fan outlet and passive cooling elements
- Avoid direct sunlight on the device/power unit
- Guarantee sufficient ambient air for the device/power unit
- Do not place objects on the device/power unit

Hazards caused by very small parts and packaging Risk of suffocation

### **WARNING**

Risk of death by suffocation or swallowing

- Keep small parts and accessories away from children
- Store/dispose of plastic bags and packaging in an area that is inaccessible to children
- Do not hand over small parts and packaging to children

### Potential data loss

Data lost during commissioning

Potentially irreversible data loss

- Always comply with the information in the operating instructions/quick installation guide
- Exclusively use the product once the specifications have been met
- Back up data prior to commissioning
- Back up data prior to connecting new hardware
- Use accessories enclosed with the product

IMPORTANT

### Cleaning the device

Harmful cleaning agents

Scratches, discolouration, damage caused by moisture or short circuit in the device

- Disconnect the device prior to cleaning
- Aggressive or intense cleaning agents and solvents are unsuitable
- Make sure there is no residual moisture after cleaning
- We recommend cleaning devices using a dry, anti-static cloth

IMPORTANT

### Disposing of the device

#### IMPORTANT



Environmental pollution, unsuitable for recycling Potential environmental pollution caused by components, recycling circle interrupted This icon on product and packaging indicates that this product must not be disposed of as part of domestic waste. In compliance with the Waste Electrical and Electronic Equipment Directive (WEEE) this electrical device and potentially included batteries must not be disposed of in conventional, domestic waste or recycling waste. If you would like to dispose of this product and potentially included batteries, please return it to the retailer or your local waste disposal and recycling point.

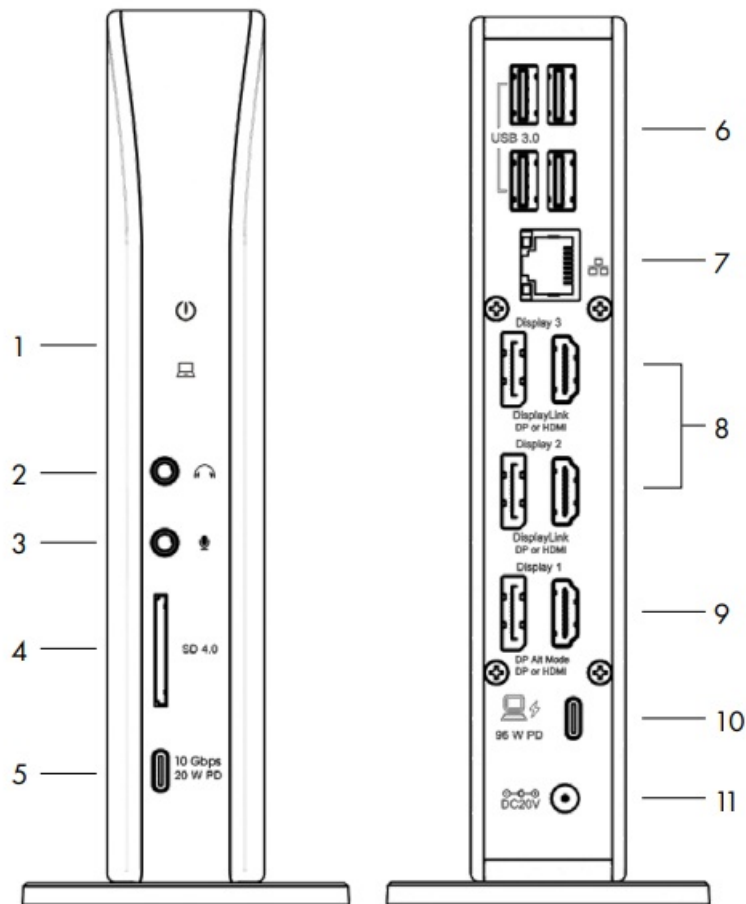
The included batteries must be completely discharged before return. Take precaution to protect the batteries from short circuits (e.g. by insulating the contact poles with adhesive tape).

If you have any questions, please do not hesitate to contact our support at [support@raidsonic.de](mailto:support@raidsonic.de) or visit our website at [www.icybox.de](http://www.icybox.de).

### Package content

1x IB-DK2256AC, 1x power supply, 1x power cable (EU), 1x USB Type-C® to Type-C® cable (100 cm), 1x USB Type-C® to Type-A adapter, 1x quick installation guide

### View



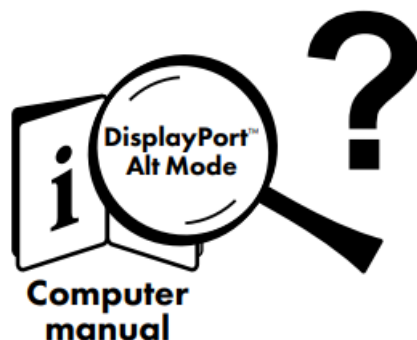
1. LED for power (blue), LED for link (green)
2. Headphone interface
3. Microphone interface
4. SD 4.0 card reader
5. USB 3.2 Gen 2 Type-C® data interface, Power Delivery up to 20 W
6. 4x USB 3.2 Gen 2 Type-A data interface
7. RJ45 Ethernet interface / Gigabit
8. DisplayLink® HDMI® and DisplayPort™ 2 and 3 interfaces (4K)
9. DP Alt Mode HDMI® and DisplayPort™ 1 interfaces (4K)
10. USB 3.2 Gen 2 Type-C® host interface, Power Delivery up to 96 W
11. Power jack, DC 20 V/6.75 A, 135 W

USB version information		
Legacy USB standards	Current USB standards	Data transfer rate
USB 3.0 = USB 3.1 (Gen 1)	= USB 3.2 Gen 2	= 5 Gbit/s
USB 3A = USB 3.1 (Gen 2)	= USB 3.2 Gen 2	= 10 Gbit/s
USB 3.2 (Gen 2x2)	= USB 3.2 Gen 2x2	= 20 Gbit/s

## System requirements

- USB Type-C® enabled Windows®/macOS®/ Chrome OS™ computer

- Installed DisplayLink® (Synaptics) driver
- Power Delivery, DP Alt Mode and/or DisplayLink® driver support (depending on your demands)
- The maximum resolution of 4K@60 Hz (HDMI® /DisplayPort™ 1) only via Type-C® DP Alt Mode supported host computers
- The device is compatible with Thunderbolt™ 3/4 equipped computers USB Type-C® Not all USB Type-C® host ports support the full functionality of the USB Type-C® standard. Some ports might only provide data transfer without supporting Power Delivery or DP Alt Mode over USB.



### **USB Type-C™ ≠ USB Type-C™**

#### **Important!**

This ICY BOX product requires the usage of DisplayPort™ Alt Mode technology over the USB Type-C™ connector. Not all computers, notebooks or tablets with a USB Type-C™ interface support the DisplayPort™ Alt Mode.

Please check the specifications of your computer system as well as its USB Type-C™ interface or use the ICY BOX product with a Thunderbolt™ 3 connector.

To use this dock to its full potential, ensure that the host USB Type-C® port of your computer supports USB Power Delivery and DP Alt Mode or Thunderbolt™ 3 / 4.

Please consult your host PC documentation or contact the PC manufacturer to confirm compatibility with these technologies. For safety, check whether the host PC Bios Version is the latest and confirm compatibility with USB Type-C® Power Delivery and/or DP Alt Mode before application.

#### **Attention!**

In case your computer supports only the DP Alt Mode protocol and the DisplayLink® driver is not installed:

- Only the HDMI®/DisplayPort™ 1 (4K) interfaces can be used.

In case your computer does not support the DP Alt Mode protocol and only has USB 3.2 Gen 2 and the DisplayLink® driver installed:

- Only the HDMI®/DisplayPort™ 2 (4K) and HDMI®/ DisplayPort™ 3 (4K) interfaces can be used.

In case your computer supports both, the DP Alt Mode protocol and USB 3.2 Gen 2 with installed DisplayLink® driver:

- The HDMI®/DisplayPort™ 1 (4K), the HDMI®/ DisplayPort™ 2 (4K) and HDMI®/DisplayPort™ 3 (4K) interfaces can be used.

#### **Starting up**

##### **Installation of the driver!**

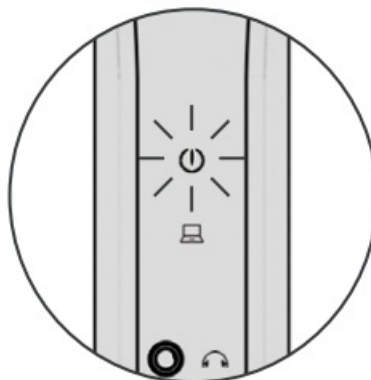
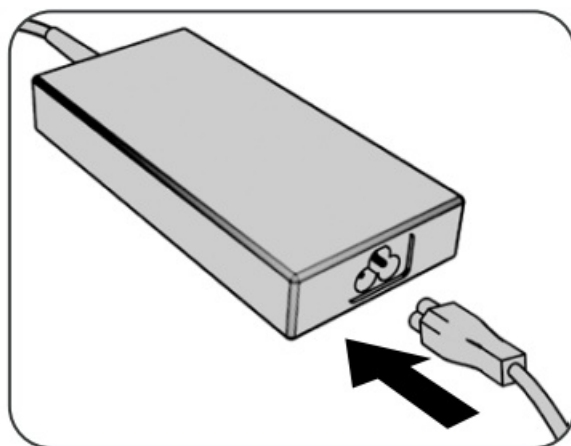
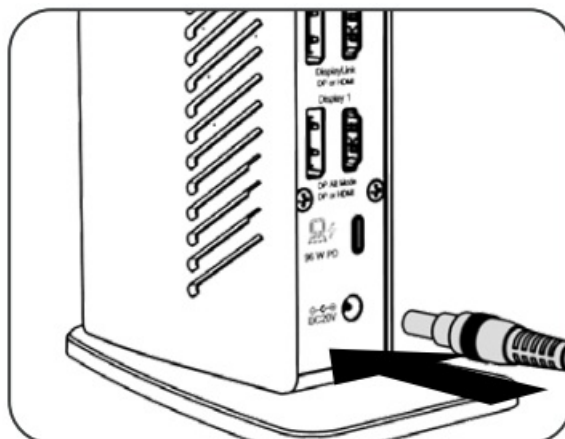
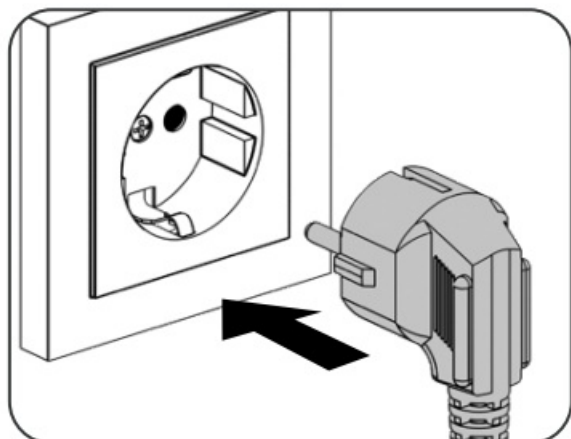
Caution: Do not connect the DockingStation to your computer before installing the driver from the download area of:

<https://www.synaptics.com/products/displaylink-graphics/downloads>

1. Select your operating system and download the correct driver from the webpage mentioned above.
2. Click on the executable file of the related version.
3. Follow the instructions and finish the driver installation.

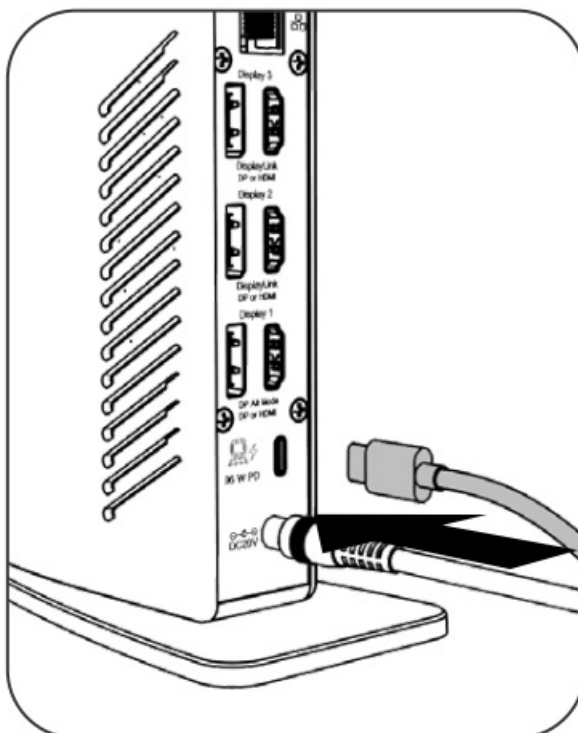
4. Connect the DockingStation to a supported USB Type-C® or USB Type-A port on the PC.
5. Restart the PC.
6. The IB-DK2256AC is ready for use.

Plug in the power supply.

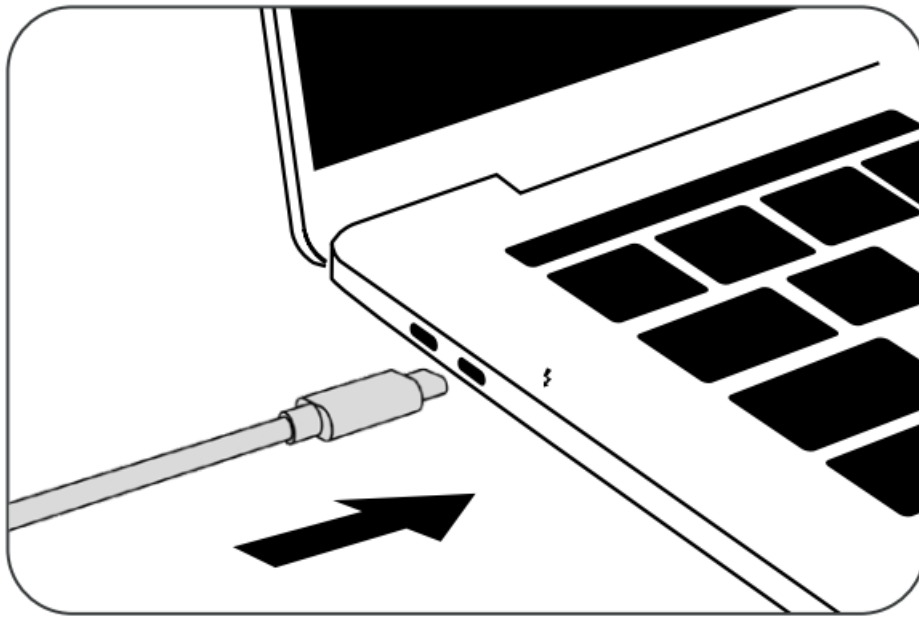


The device is now powered on!

Connect the USB Type-C® plug of the supplied data cable to the host Type-C® interface of the DockingStation.



Connect the delivered USB Type-C® to Type-C® cable (or the included Type-A adapter) to the DockingStation and to a supported computer (at least USB 3.2 Gen 2).



**Note!**

When using a computer without Power Delivery support via a USB Type-C® port or using a USB Type-A port (via adapter), please note the following: Information about the attached USB Type-C® to Type-A adapter:

For a better connection compatibility with host computers that only have a USB 3.2 Gen 2 Type-A interface, we have added an additional USB Type-C® to Type-A adapter.

Should you wish to use this adapter on your computer, please note the following technical restriction when using the DockingStation via a Type-A port:

In this case the Type-A interface does in no way support DP Alt Mode via HDMI® /DisplayPort™ 1 interfaces and Power Delivery which is a prerequisite for the Power Delivery charging option. This means the DockingStation cannot be used to charge the computer.

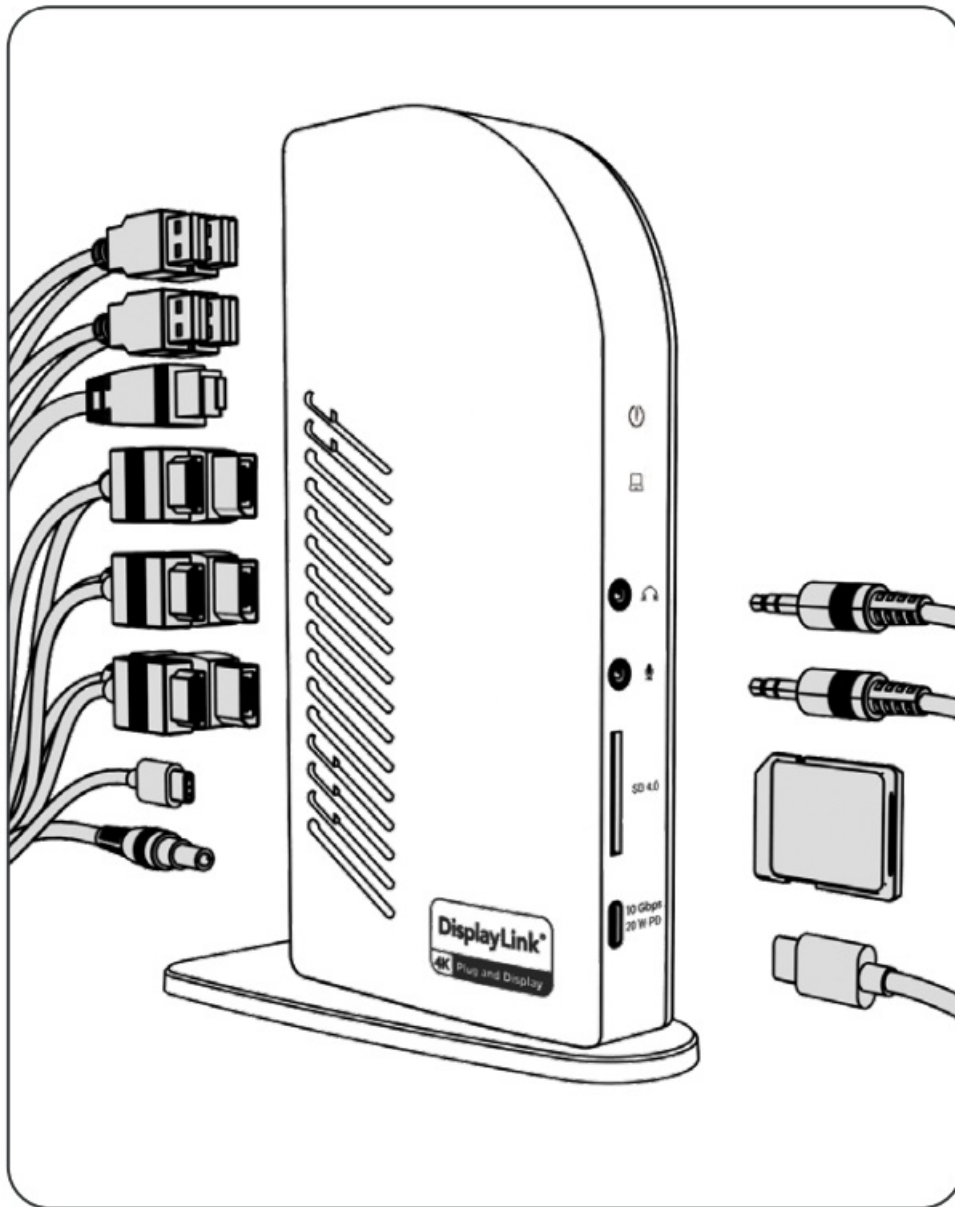
To use this dock to its full potential, ensure that the host USB Type-C® port of your computer supports USB 3.2 Gen 2, DP Alt Mode and USB Power Delivery.

Please consult your host PC documentation or contact the PC manufacturer to confirm compatibility with these technologies.

For safety reasons, please check whether the host PC Bios Version is the latest and confirm compatibility with USB Type-C® Power Delivery, DP Alt Mode and USB 3.2 Gen 2 before application.

Connect your devices to the appropriate interfaces of the dock





## Use of memory card slots

### SD card

Insert the SD card into the SD card slot with the bevelled corner first. The golden pins of the card must be directed to the left.

### Displays

Please set up your display settings according to your operating system and requirements. For detailed information see the corresponding operation manual and description of your operating system.

<b>Video matrix (Host PC = USB Type-C® DP Alt Mode + DisplayLink®, DP 1.4 HBR3), maximum resolutions</b>						
	<b>Inputs (plug-in)</b>			<b>Output</b>		
<b>Number of displays</b>	<b>Display 1</b>	<b>Display 2</b>	<b>Display 3</b>	<b>Display 1</b>	<b>Display 2</b>	<b>Display 3</b>
<b>Triple video output</b>	✓	✓	✓	3840x2160@60 Hz	3840x2160@60 Hz	3840x2160@60 Hz
<b>Dual video output</b>	✓	✓		3840x2160@60 Hz	3840x2160@60 Hz	
		✓	✓		3840x2160@60 Hz	3840x2160@60 Hz
	✓		✓	3840x2160@60 Hz		3840x2160@60 Hz
	✓	✓		3840x2160@60 Hz	5120x2880@60 Hz (DP only)	
<b>Single video output</b>	✓			3840x2160@60 Hz		
		✓			3840x2160@60 Hz	
			✓			3840x2160@60 Hz

<b>Video matrix (Host PC = USB 3.2 Gen 2 DisplayLink®, only Display 2 and Display 3), maximum resolutions</b>						
	<b>Inputs (plug-in)</b>			<b>Output</b>		
<b>Number of displays</b>	<b>Display 1</b>	<b>Display 2</b>	<b>Display 3</b>	<b>Display 1</b>	<b>Display 2</b>	<b>Display 3</b>
<b>Dual video output</b>		✓	✓		3840x2160@60 Hz	3840x2160@60 Hz
<b>Single video output</b>		✓			3840x2160@60 Hz	
			✓			3840x2160@60 Hz
		✓			5120x2880@60 Hz (DP only)	

## Windows® display configuration

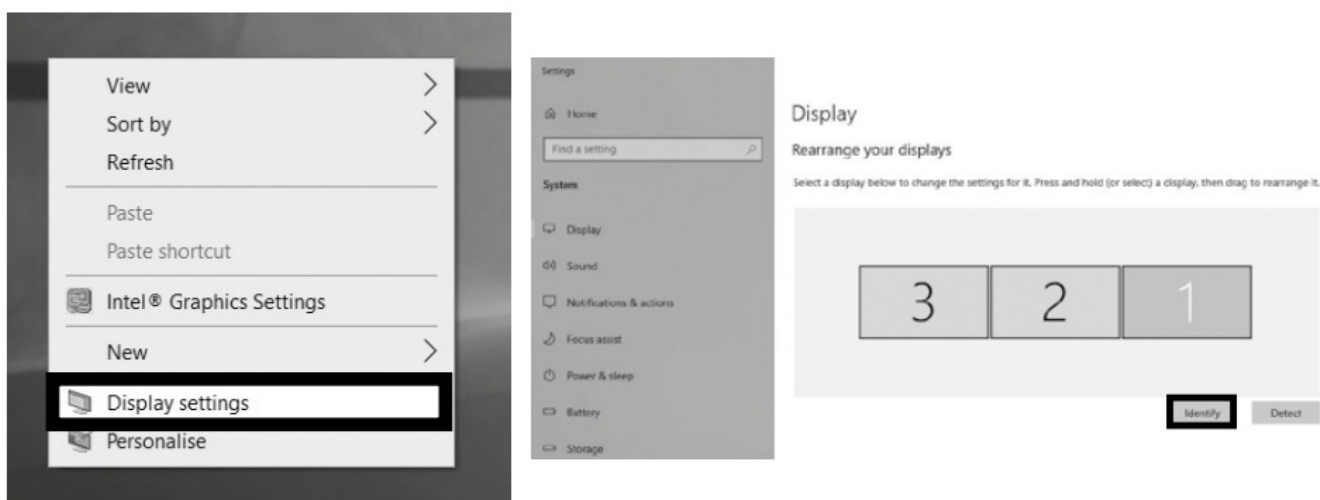
**NOTE:** The screenshots might vary slightly with the operating system.

### Arrange your displays

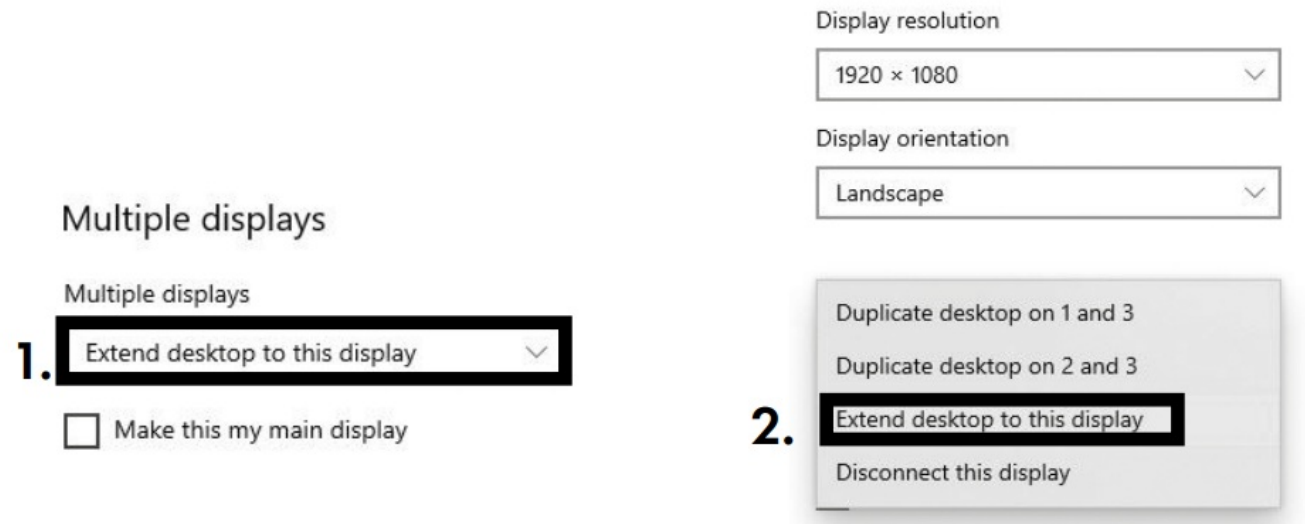
Once the extra monitors are connected, they can be configured to either mirror mode, extended mode or be configured to the setting of the primary display.

e.g: extending your monitors

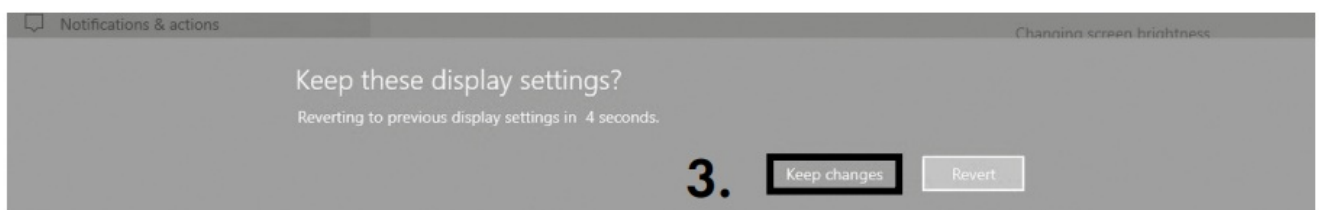
- Position the mouse anywhere on the Windows® desktop
- Right-click and select Display settings to bring up the configuration window.
- Refer to the Display configuration section



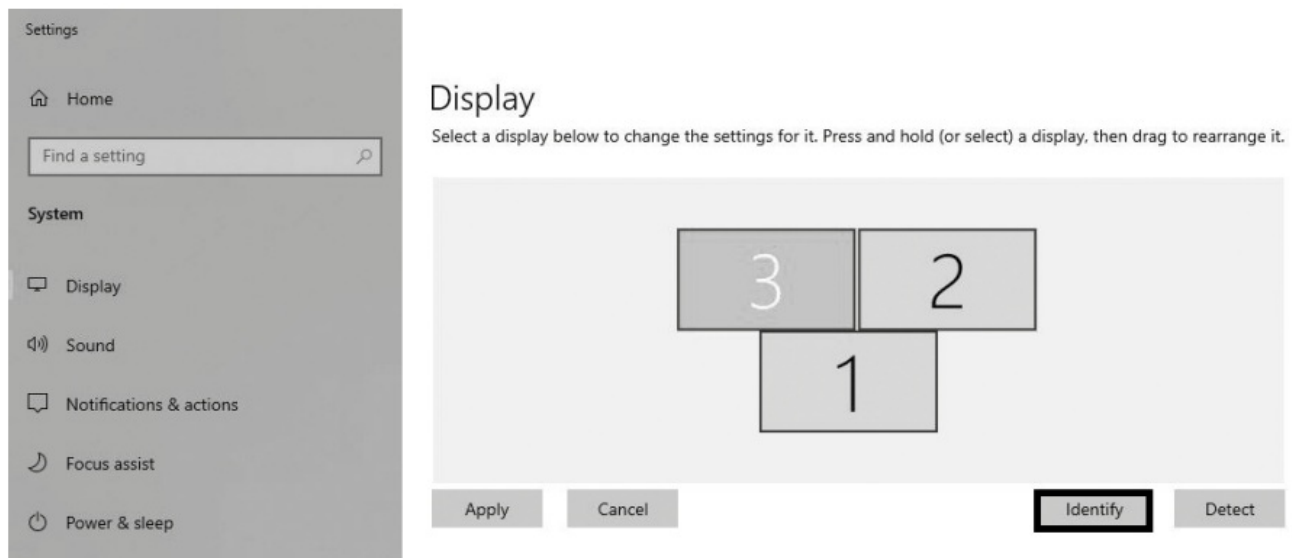
- Identify your monitors by clicking the Identify button.
- Select the relevant monitor for the following settings by clicking the identified monitor symbol
- Select Multiple displays > Extend desktop to this display if you wish to extend a monitor.



- Click Keep changes to confirm and exit.



- Once the setting is completed, simply drag and drop the application icons to arrange your monitors. (However, some applications may not support the display on the extended desktop).



## Setting the right resolution and frequency of your displays

There are two possibilities to choose the resolution of the selected monitor:

### Standard

- Identify your monitors by clicking the Identify button.
- Select the relevant monitor by clicking the identified monitor symbol.
- Click on Display resolution

## Scale and layout

Change the size of text, apps and other items

100% (Recommended) ▾

Advanced scaling settings

Display resolution

1.

1920 × 1080 ▾

- Choose the right resolution from the drop-down menu. Refer to the video matrix table!

2.

2048 × 1536

2048 × 1152

1920 × 1440

1920 × 1200

1920 × 1080

1856 × 1392

1792 × 1344

1680 × 1050

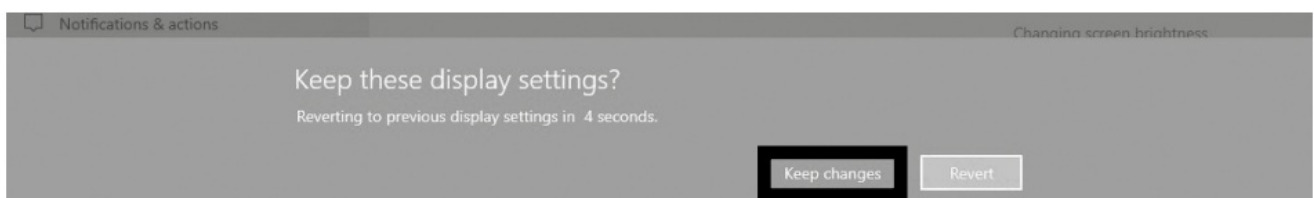
1600 × 1200

1600 × 900

1440 × 900

1400 × 1050

- Click Keep changes to confirm and exit.



## Advanced display settings

- Identify your monitors by clicking the Identify button.
- Click on Advanced display settings

## Multiple displays

### Multiple displays

Extend desktop to this display

☐ Make this my main display

1.

Connect to a wireless display

Advanced display settings

Graphics settings

A new page opens up

- Select the relevant monitor by clicking Choose display
- Click on Display adaptor properties for Display X

2.

### Choose display

Select a display to view or change the settings for it.

Display 2: LG Ultra HD

3.

### Display information



LG Ultra HD

Display 2: Connected to Intel(R) UHD Graphics 620

Desktop resolution	1920 × 1080
Active signal resolution	1920 × 1080
Refresh rate (Hz)	30 Hz
Bit depth	8-bit
Colour format	RGB
Colour space	Standard dynamic range (SDR)

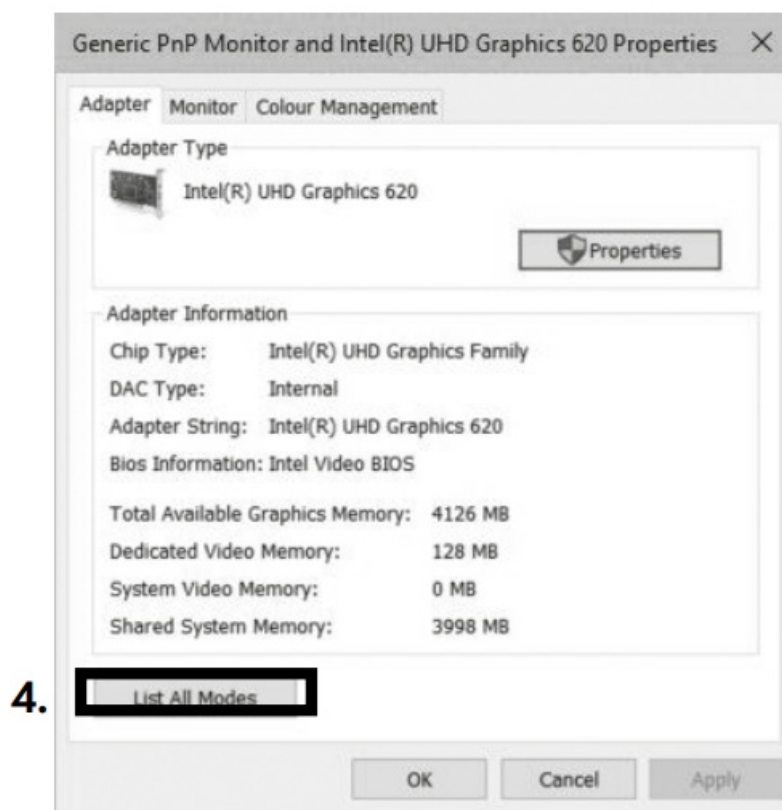
Display adaptor properties for Display 2

Get help

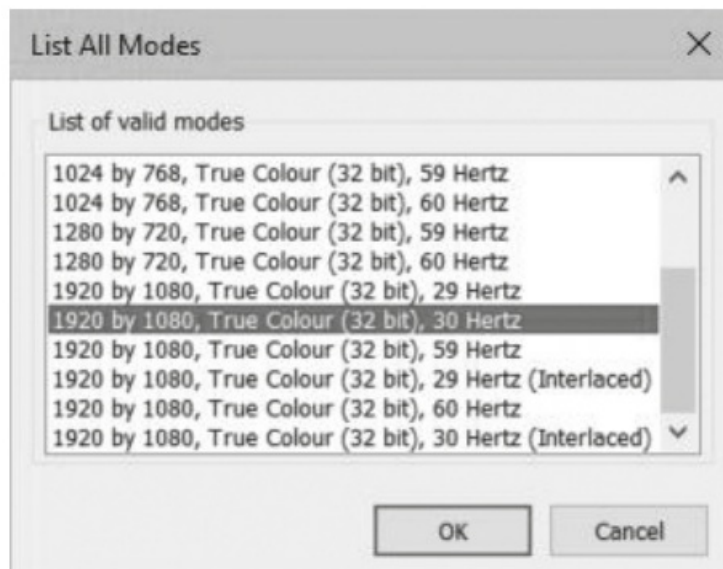
Give feedback

A new window opens up

- Click on List All Modes



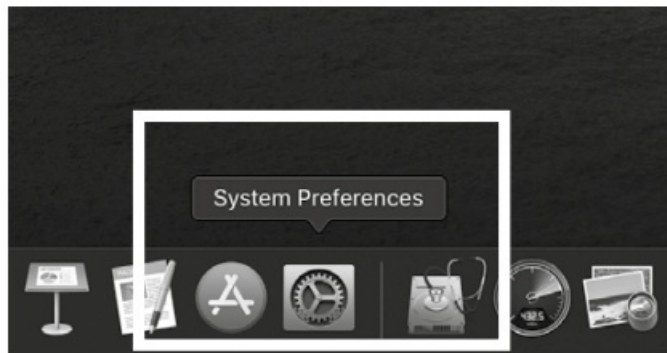
Repeat for each attached monitor if necessary.



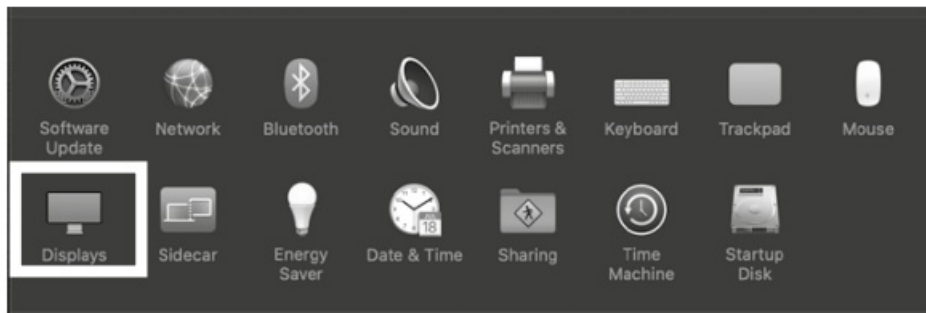
### macOS® Display configuration

Once the extra monitors are connected, they can be configured to mirror mode or extend mode.

- Click on System Preferences



- Click on Displays

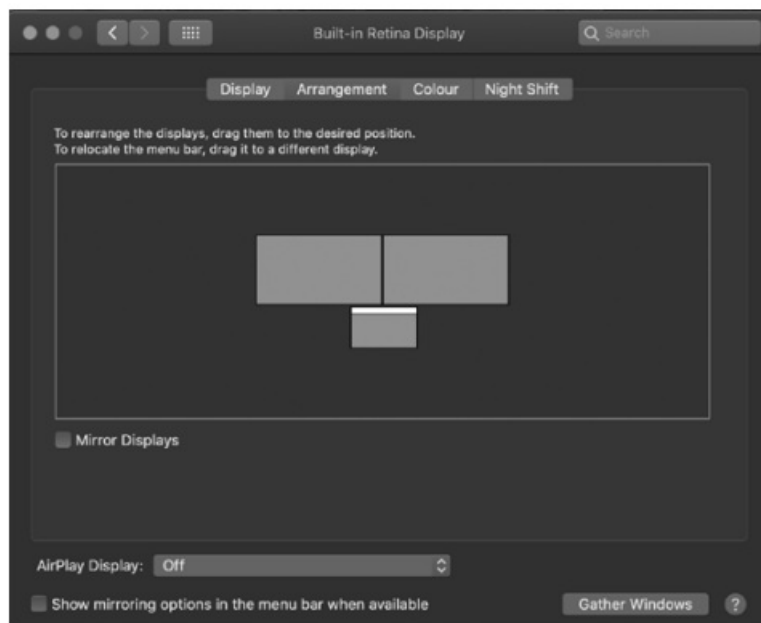


A new window opens up

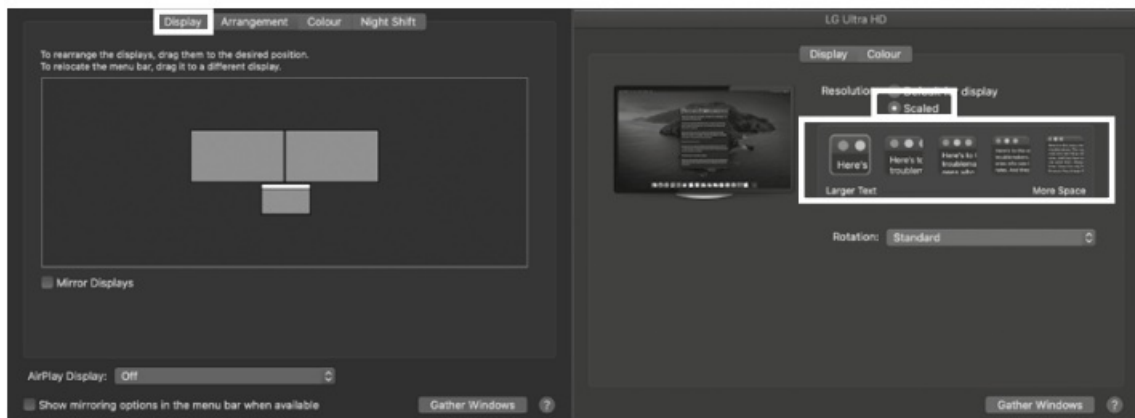
- Click Arrangement



- Select the corresponding monitor symbol by clicking and holding the symbol of the monitor that shall be placed in order to do the positioning.



To set up scaled resolutions of the monitor displays, click the Display tab. In the window that now opens for the respective display, you can set your desired resolutions separately. Select the option Scaled and then select the appropriate size in the field below.

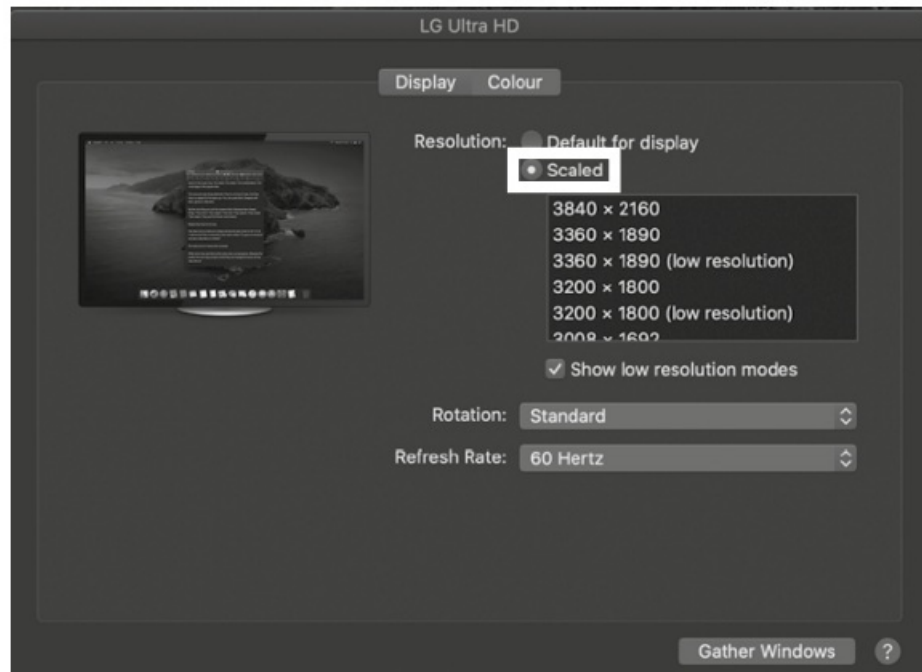


### Advanced display settings

Hold down the option key and click on Scaled again and an advanced menu for setting resolution and repetition frequency opens.

Please select your preferred settings here.





Repeat for each attached monitor if necessary.



CC28 Caregiver Pager Wireless Vibration Call Bell Nurse Call System

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## Documents / Resources

 <p>ICY BOX Manual IB-DK2256AC DisplayLink™ Docking Station with triple video output Model: IB-DK2256AC DisplayLink™ Docking Station with triple video output</p>	<p><a href="#">ICY BOX IB-DK2256AC DisplayLink Docking Station</a> [pdf] Instruction Manual IB-DK2256AC DisplayLink Docking Station, IB-DK2256AC, DisplayLink Docking Station, Docking Station, Station</p>
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## References

- [^ Que Faire de mes Déchets ? Découvrez les solutions pour tous vos déchets et nos conseils pour en produire moins.](#)
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