Manuals+

ICY BOX IB-DK2106a-CPD USB Type C Docking Station With Triple Video Output Owner's Manual

Contents

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Safety information

Safety information IB-DK2106a-CPD

Please read carefully the following information to prevent injuries, damage to materi-al 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

WARNING

Contact with parts conducting electricity

Risk of death by electrical shock

- 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)

CAUTION

Sharp components

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

- 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 the development of heat

IMPORTANT

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

- 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

WARNING

Risk of suffocation

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

IMPORTANT

- 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

Cleaning the device

Harmful cleaning agents

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

IMPORTANT

- 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

Disposing of the device

Environmental pollution, unsuitable for recycling

Potential environmental pollution caused by components, the recycling circle is interrupted

IMPORTANT

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.

If you have any questions, please do not hesitate to contact our support at **support@raidsonic.de** or visit our website at **www.raidsonic.de**.
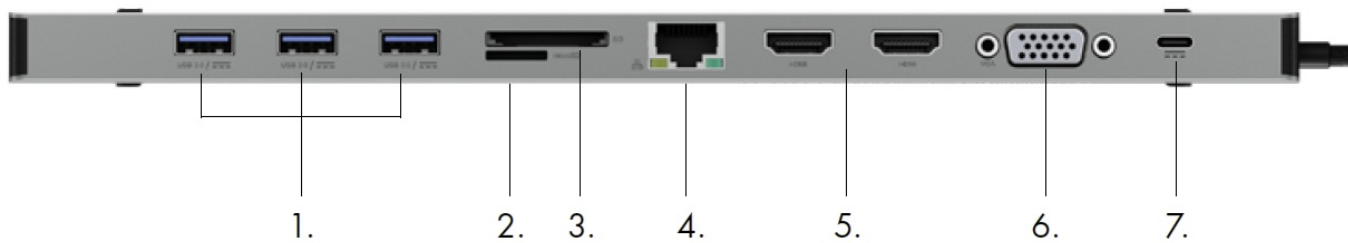
Package content

IB-DK2106a-CPD, quick installation guide

Side view

Rear view

1. 3x USB 3.0 Type-A data interface

2. microSD 3.0 card reader

3. SD 3.0 card reader

4. RJ45 Ethernet interface

5. HDMI® interfaces

6. VGA interface

7. USB Type-C® only for Power Delivery (PD) up to 20 V@5 A

Starting up

1. Connect USB Type-C® cable

2. Connect your devices to the appropriate interfaces on the dock

Usage of memory card slots

- **SD card (UHS-I)**
    - Insert the SD card into the SD card slot with the bevelled corner in front of it. The golden PIN's of the card must be directed downwards.
- **microSD card (UHS-I)**
    - Insert the microSD card into the microSD card slot with the bevelled corner in front of it. The golden PIN's of the card must be directed upwards.

Single-LUN – the card reader can only work with one memory card at a time

Note: In order to power and charge your connected laptop, its USB Type-C® port must support USB Power Delivery or Thunderbolt 3™.

Type-C® Notebook Docking Station

The USB Type-C® multi Docking Station is designed for extra connectivity demands. With this DockingStation, you can extend a USB Type-C® host interface and DisplayPort™ Alt Mode supported computer to more displays and USB peripherals, Ethernet network, memory cards, speaker and microphone through one USB Type-C® cable. Adopting Power Delivery charging technology, upstream charging function through the Type-C® interface, you can charge the connected notebook by using your existing Type-C® power supply at once.

Features

- Premium aluminium enclosure
- USB Type-C® with Power Delivery
- Charge your notebook with up to 100 W via the USB Type-C® interface
- Three additional video interfaces:
    - 2x High Speed HDMI® (up to 3840×2160@60 Hz)
    - 1x VGA interface up to 1920×1080@60 Hz
- Three USB 3.0 Type-A interfaces, data transfer rate up to 5 Gbit/s
- Single-LUN SD 3.0 (UHS-I) and microSD 3.0 (UHS-I) card reader for data transfer up to 100 MB/s
- Gigabit LAN RJ45 interface with wake-on-LAN function

- 3.5 mm stereo combo jack (headset)

Requirements

- Host notebook with an available USB Type-C® port (to ensure full dock functionality, the host USB Type-C® port must support USB Power Delivery and DisplayPort™ Alt Mode or Thunderbolt™ 3).

Note: The docking station can still connect to a host laptop with a USB Type-C® port that doesn't support Power Delivery (must still support DisplayPort™ Alt Mode). In this configuration, the docking station will not provide power to your host laptop.

- HDMI® or VGA enabled display(s) with cables as needed (for additional external displays)
- A 4 K-capable display is required to achieve 3840×2160@60 Hz resolution
- Any of the following operating systems: Windows®, macOS® (macOS® computers do not support extended mode via DP Alt Mode – only mirrored mode (SST)).

USB Type-C®

Not all USB Type-C® ports support the full functionality of the USB Type-C® standard. Some ports might only provide data transfers and might not support video or Power Delivery over USB. To use this dock to its full potential, ensure that the host USB Type-C® port from your computer supports DisplayPort™ Alt Mode, as well as USB Power Delivery or Thunderbolt 3™.

Note! The USB Type-C® port on the Docking Station supports only Power Delivery (no data transfer)

Install and use the DockingStation

The dock will automatically install some of the required drivers once it is connected to your laptop's USB Type-C® port. If you receive a prompt to automatically install the driver(s), follow the on-screen instructions to complete the installation. Connect your devices to the appropriate ports on the dock. Connect your external display(s) to the dock's video port(s).

Note: Video output capabilities are dependent on the video card and hardware specifications of your connected host laptop. Certain video cards have limited MST support, while some monitors will also limit the available resolution.

Configure a display device

Please setup your display settings accordingly to your operating system and requirements. For detailed information, see the corresponding operation manual and description of your operating system. Your laptop hardware must support dual external displays (e.g.: MST).

Supported video resolutions

The docking station supports 4K HD resolution if the connected HDMI® display supports it.

Video matrix design, maximum resolutions	Output			
Host computer interface	HDMI® 1	HDMI® 2	VGA	Number of displays
USB Type-C® DisplayPort™ Alt Mode	3840×2160@60 Hz			Single video output
		3840×2160@60 Hz		
			1920×1080@60 Hz	
	1920×1080@60 Hz	1920×1080@60 Hz		Dual video output
	1920×1080@60 Hz		1920×1080@60 Hz	
		1920×1080@60 Hz	1920×1080@60 Hz	
	Under specific conditions of your computer (e.g SST Single Stream Protocol)			
	3840×2160@60 Hz	1920×1080@60 Hz		
	1920×1080@60 Hz	3840×2160@60 Hz		
	1920×1080@60 Hz	1920×1080@60 Hz	1920×1080@60 Hz	Tripple video output

- **Note**: The integrated notebook display must be deactivated at the video settings of your operating system to support video output to three external monitors!
- **Note**: macOS® only supports dual and triple video output in mirror mode, SST (Single Stream Protocol)

Important

1. When connecting two HDMI® monitors on macOS® based system, the computer can read only one EDID (Extended Display Interface Data). It is recommended using two monitors, which have the same highest resolution. If the resolutions are different for these two monitors, please adjust them manually. On Windows® OS the computer can read two different EDIDs at the same time.
2. When connecting HDMI® and VGA on macOS®, the computer can read only one EDID. Please connect the HDMI® port before the VGA port; otherwise, there might be no sound from the device. Please adjust the resolution for both monitors manually. This issue will not happen on Windows® OS.
3. When using macOS® on the dual monitor mode, the computer can read only one EDID. If you are using two monitors which do not using the same resolution, there won´t be an image. Please properly reset the resolution and adjust it manually.
4. When connecting the USB Type-C plug of the IB-DK2106a-CPD to a Chromebook, the mouse to be connected to the USB 3.0 Type-A port will not work immediately; it will have seconds' delay. This problem also occurs in other similar Type-C® adapter (including Apple original 3 in 1 adapter) when connected to Chromebook.

5. When connecting the IB-DK2106a-CPD to a Chromebook, the VGA video signal may not appear on the screen of the VGA monitor under certain resolutions.
6. Attention! When plugging in and out an adapter to the Type-C® interface of the IB-DK2106a-CPD, the connected USB devices will get disconnected flashily and then reconnect in a few seconds, so to prevent possible data loss or corruption, avoid (dis-)connecting the PD adapter from AC power while transferring data.
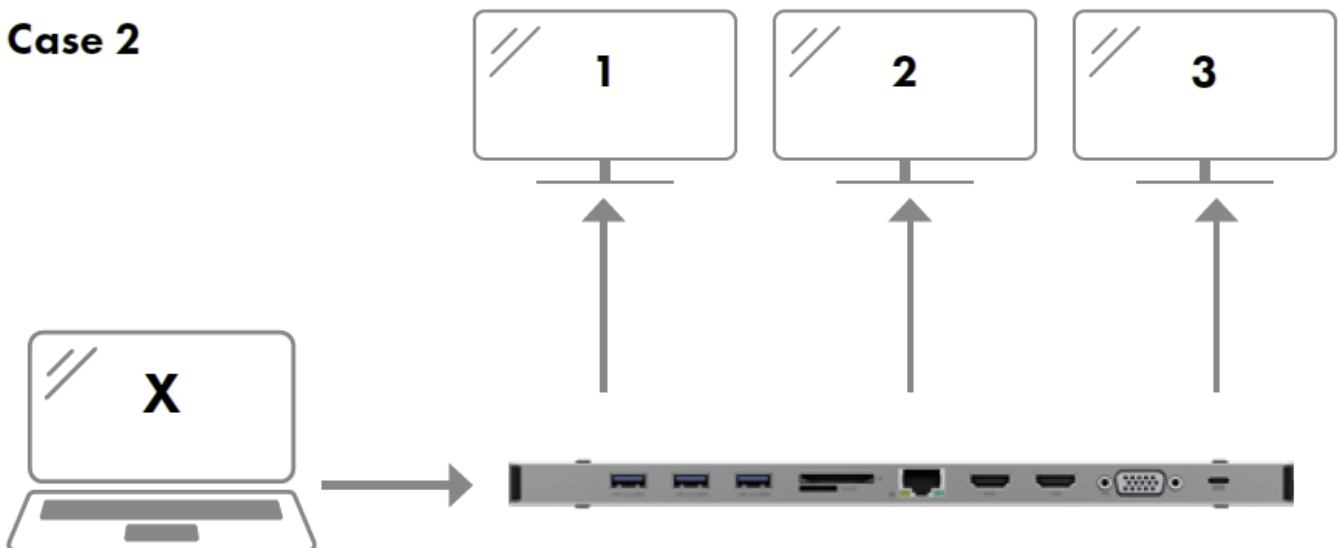
Windows® Display configuration

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

Extended monitor application under MST technology (MultiStreamTransport protocoll)
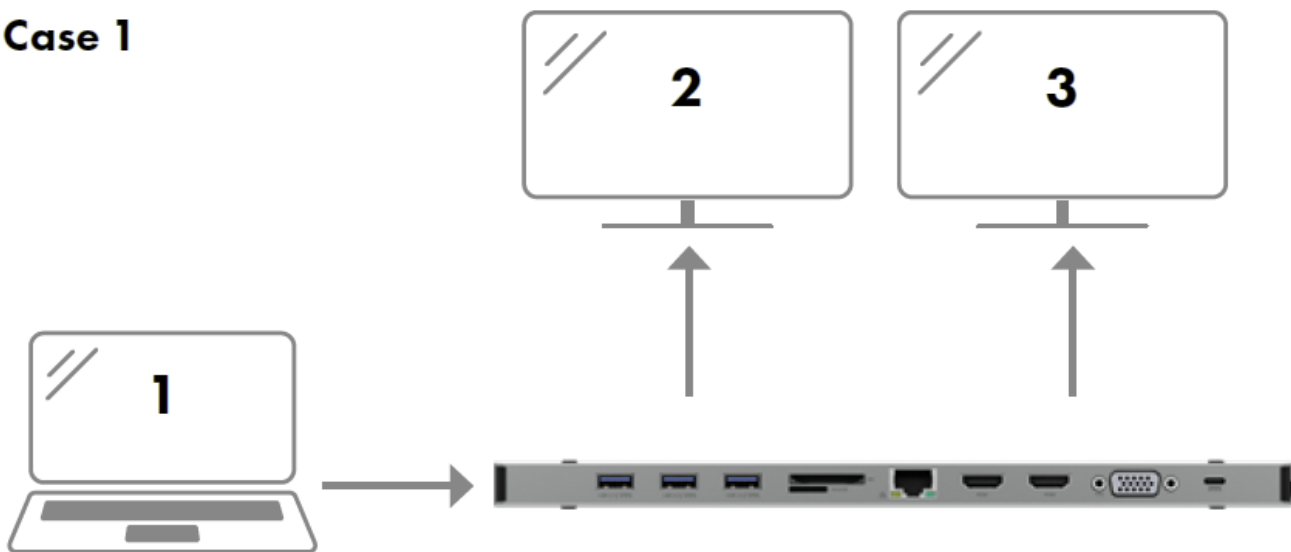
Arrange your displays

Once the extra monitors are connected, they can be configured to either mirror mode, extend mode (Windows® only) or set 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.
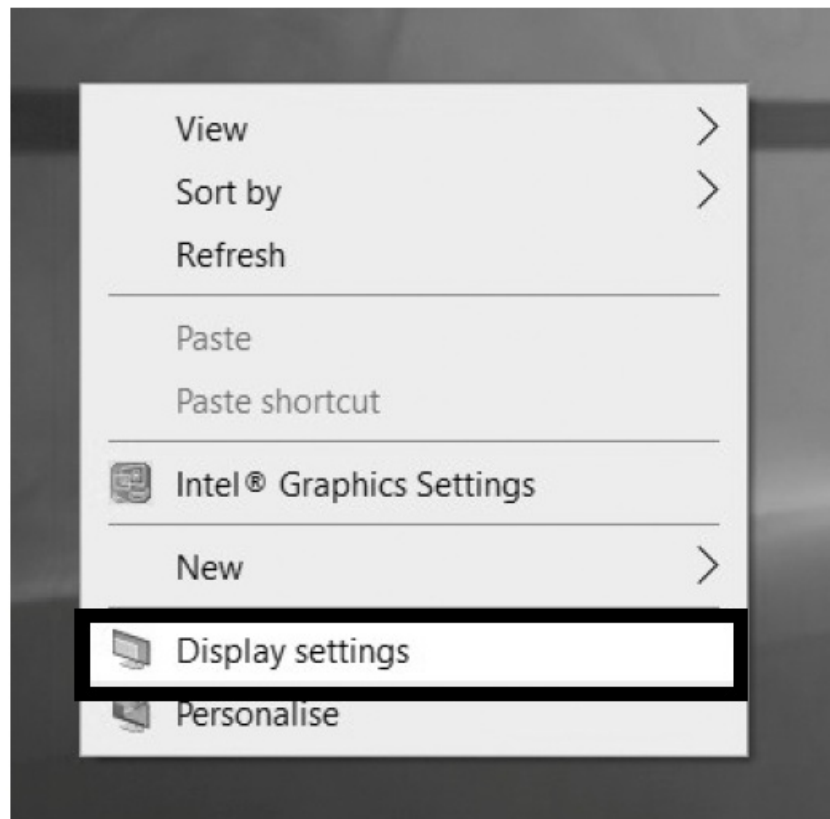
- Refer to the Display configuration section

- 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.

Display resolution

1920 × 1080 ⌄

Display orientation

Landscape ⌄

Duplicate desktop on 1 and 3

Duplicate desktop on 2 and 3

Extend desktop to this display

Disconnect this display

- Click Keep changes to confirm and exit.

Notifications & actions   Changing screen brightness

Keep these display settings?

Reverting to previous display settings in 4 seconds.

Keep changes   Revert

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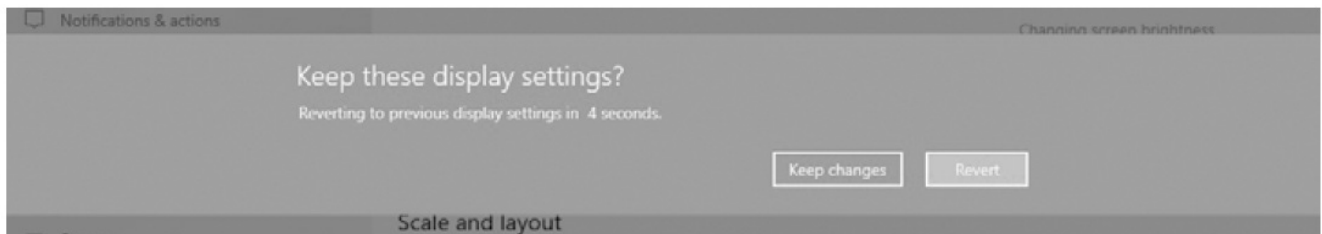
- Once the setting is completed, simply drag and drop the application icons to arrange your monitors. (However, some applications may not support to display on the extended desktop).

Settings

⌂ Home

Find a setting 🔍

System

🖵 Display

🔊 Sound

🖵 Notifications & actions

🌙 Focus assist

⏻ Power & sleep

🖵 Battery

Display

Select a display below to change the settings for it. Press and hold (or select) a display, then drag to rearrange it.

3   2

1

Apply   Cancel   Identify   Detect
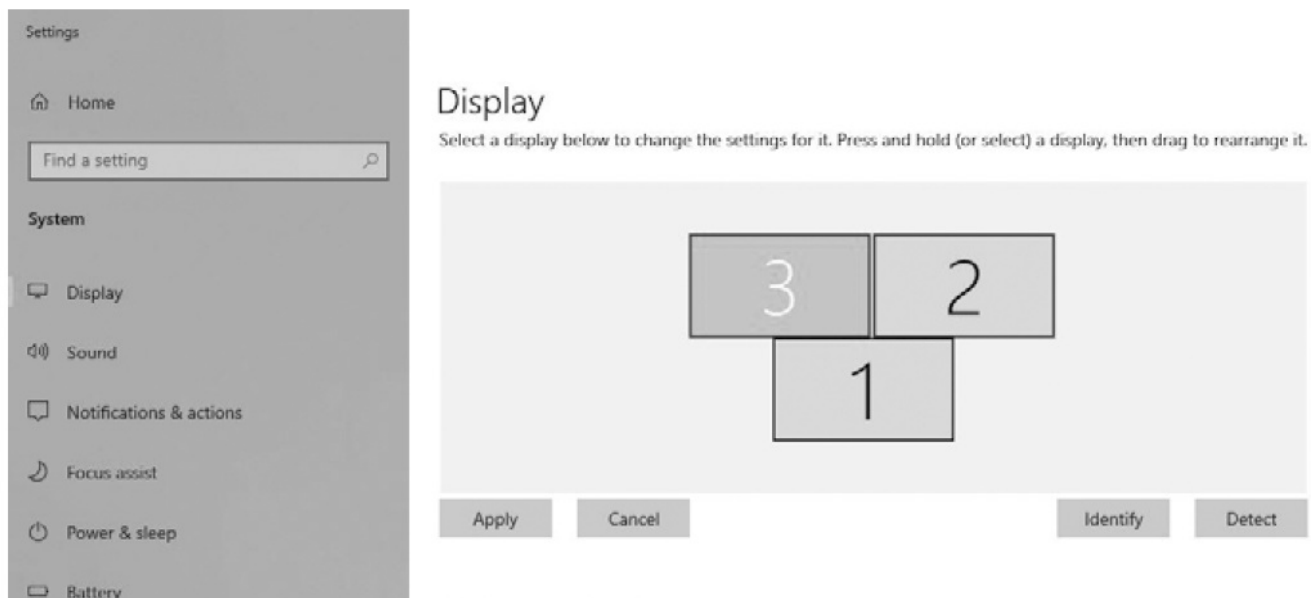
Setting the right resolution and frequenzy of your displays

Two possibilities for select 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

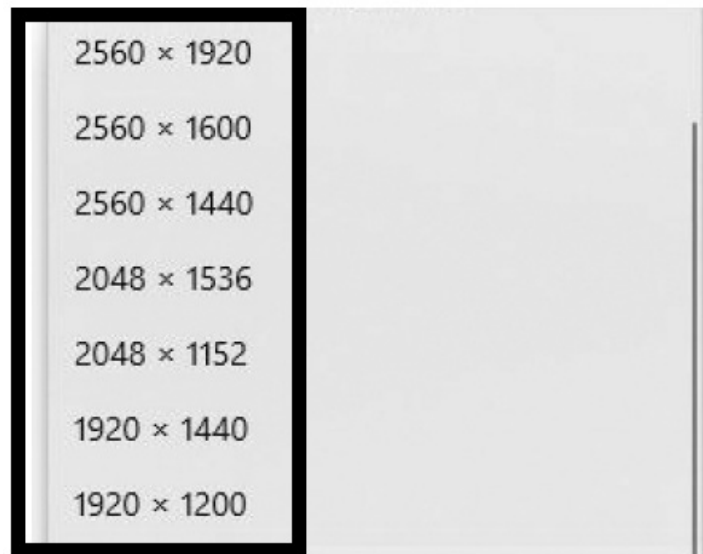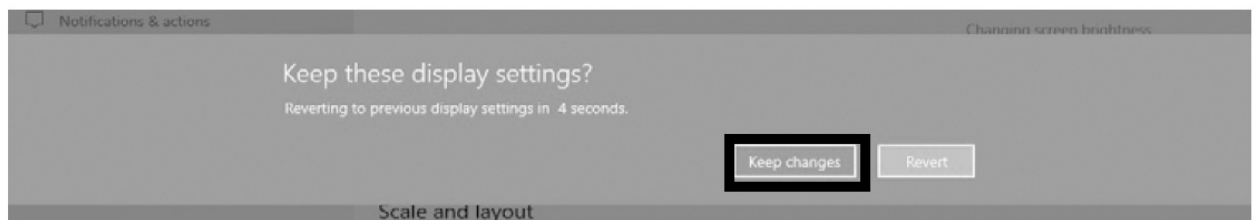Change the size of text, apps and other items

100% (Recommended)	∨

Advanced scaling settings

Display resolution

1920 × 1080	∨

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

2560 × 1920

2560 × 1600

2560 × 1440

2048 × 1536

2048 × 1152

1920 × 1440

1920 × 1200

- Click Keep changes to confirm and exit.

☐ Notifications & actions   Changing screen brightness

Keep these display settings?

Reverting to previous display settings in 4 seconds.

[Keep changes]   [Revert]

☐ Screen   Scale and layout

- **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

Connect to a wireless display

Advanced display settings

- **A new page opens up**

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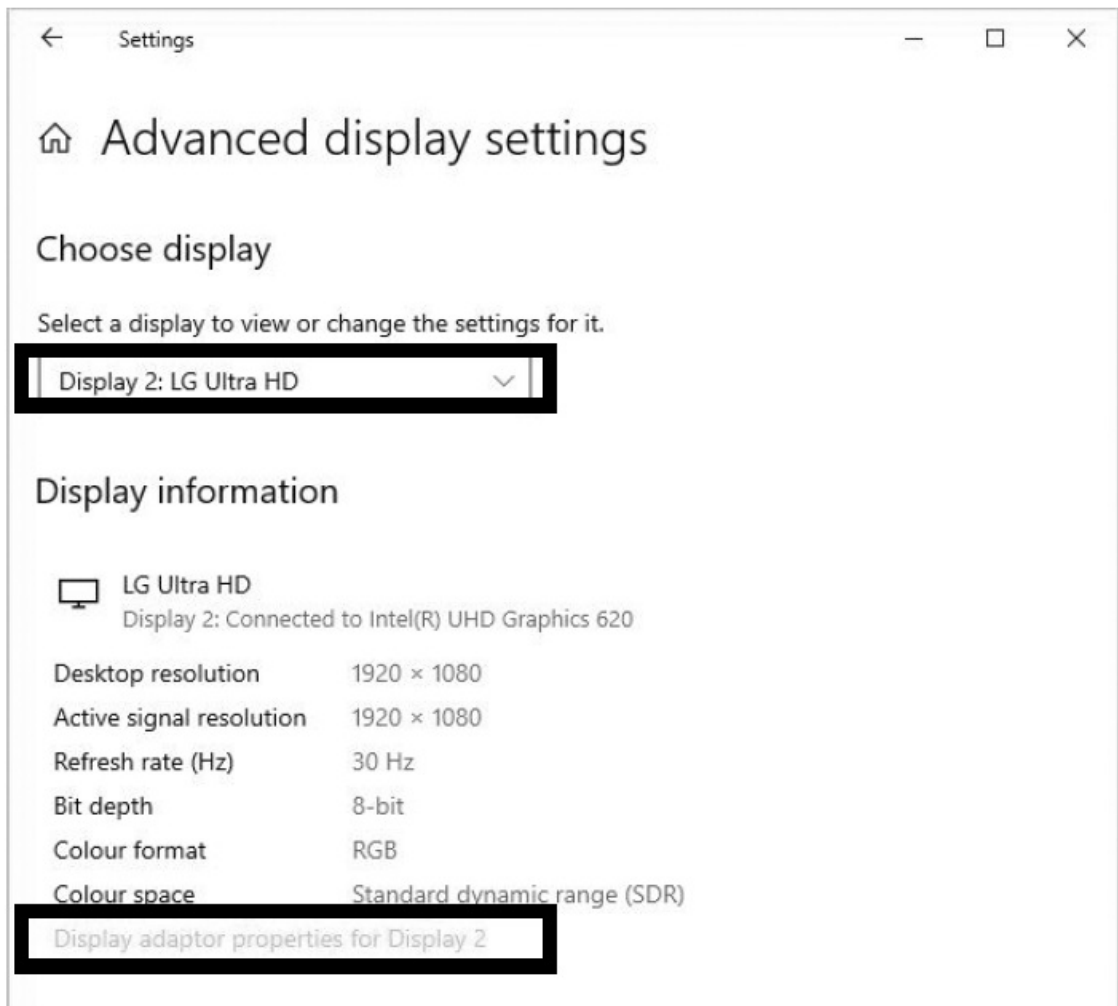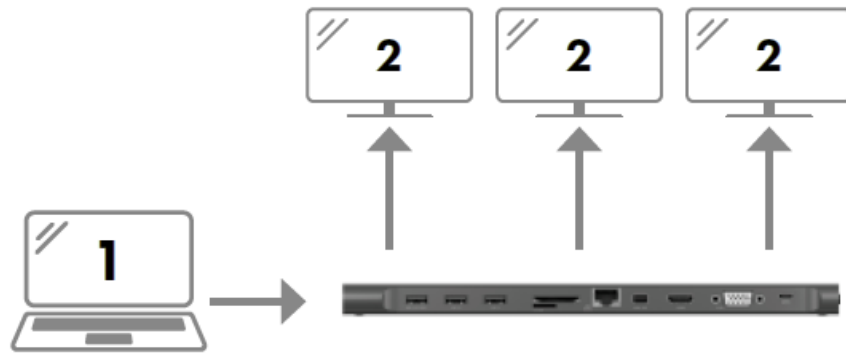

- A new window opens up
- Click on List All Modes
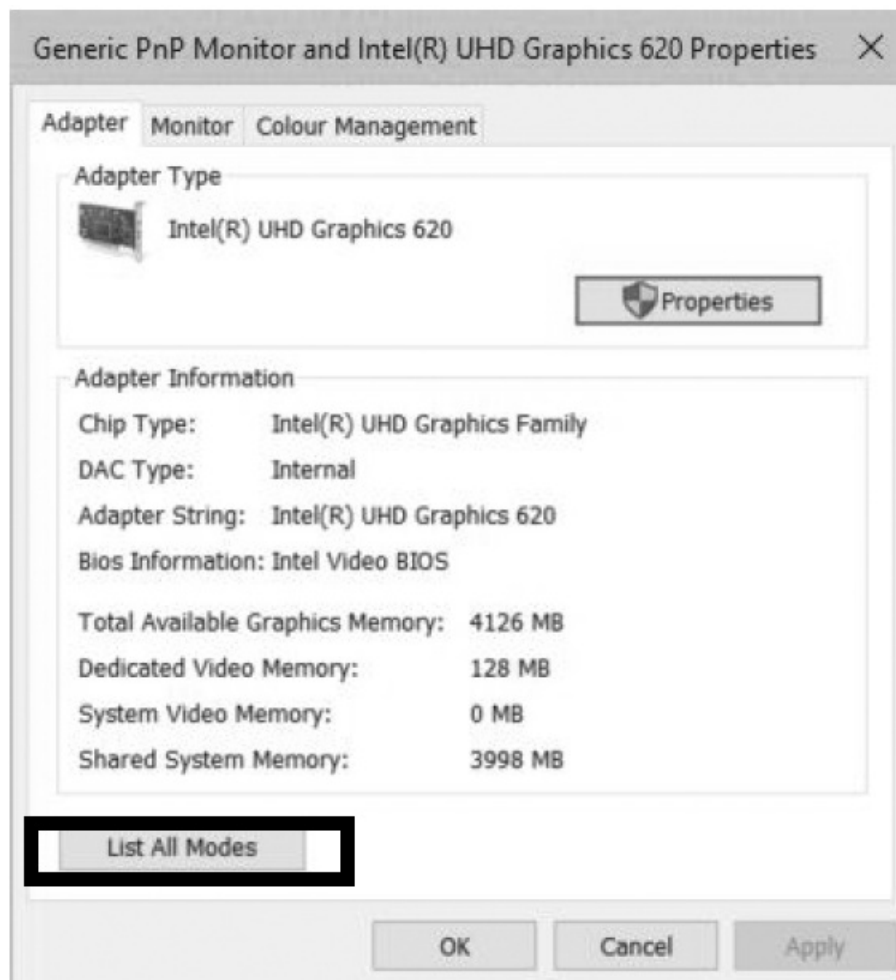
○ A new window opens up

○ Click on a valid mode accordingly to the video matrix design table as shown as above.
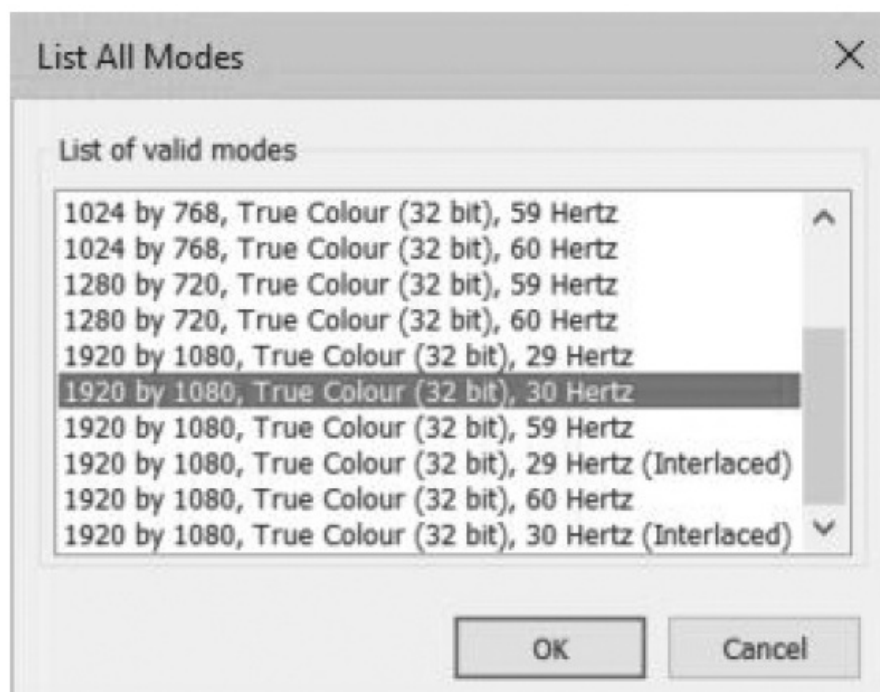
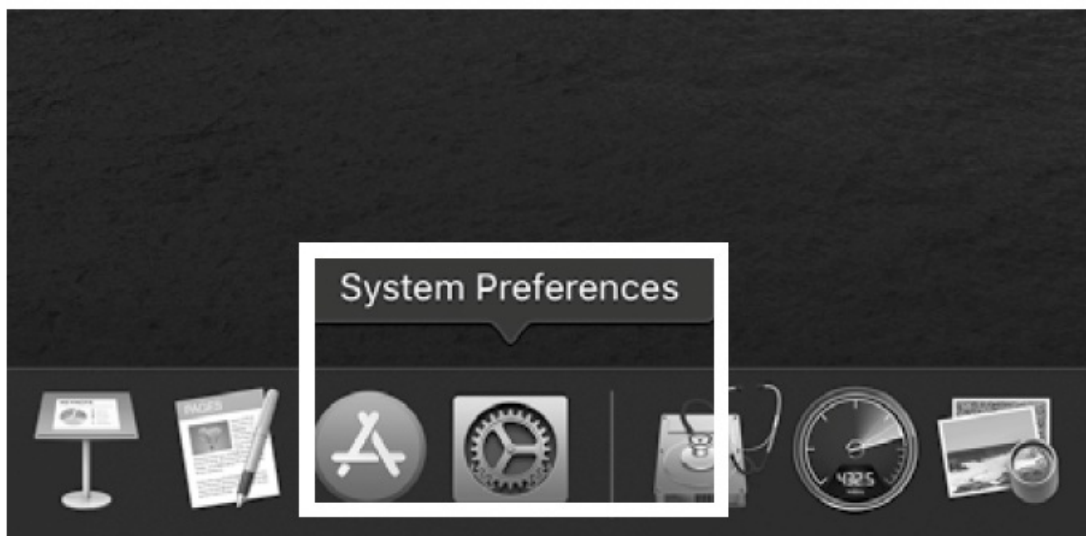○ Repeat for each attached monitor if necessary.
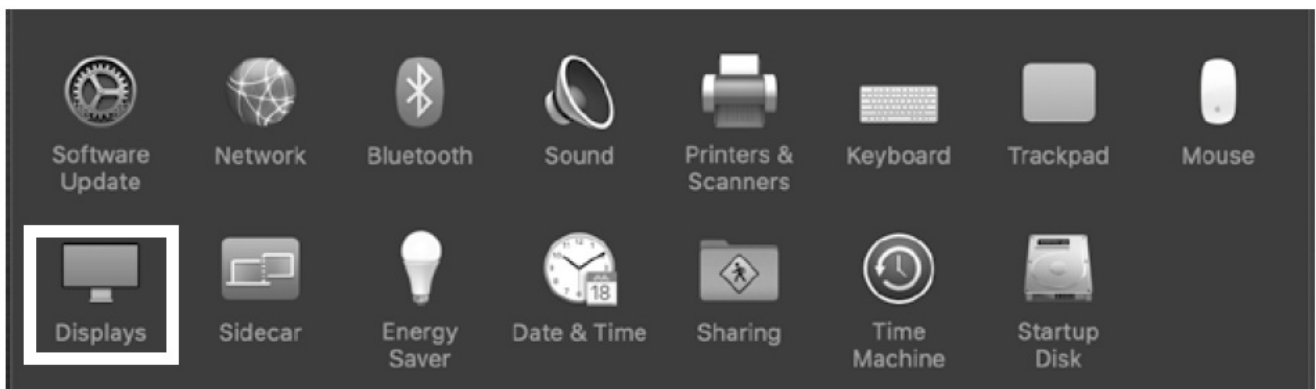
macOS® Display configuration

Arrange your display

Once the extra monitors are connected, they can be configured to mirror mode or extend mode (only one additional monitor, a second/third monitor will only be mirrored).

- Click on System Preferences

- Click on Displays

- A new window opens up
- Click Arrangement

- Select the corresponding monitor symbol by clicking and holding on the symbol of the monitor to be placed.


To set up scaled resolutions of the monitor displays, click the Display tab and then, in the opened window of the respective display, set your desired views separately. Select the Scaled option and then select the appropriate size in the field below.
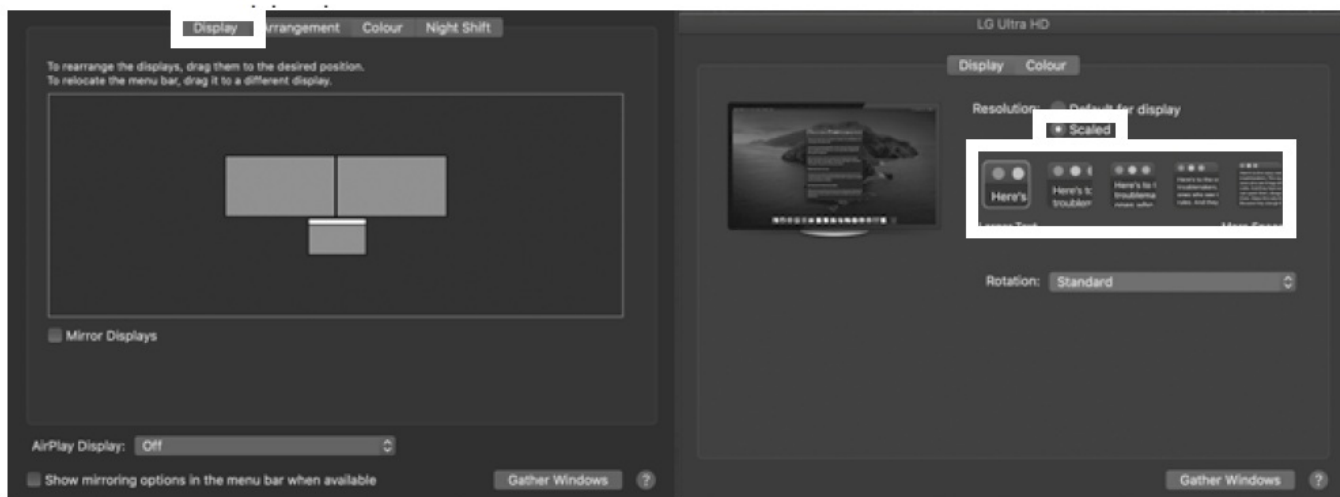
Advanced display settings

Hold down the option key, click again on Scaled and an advanced menu for resolution settings and repeat frequency settings opens. Please select your preferred settings here.
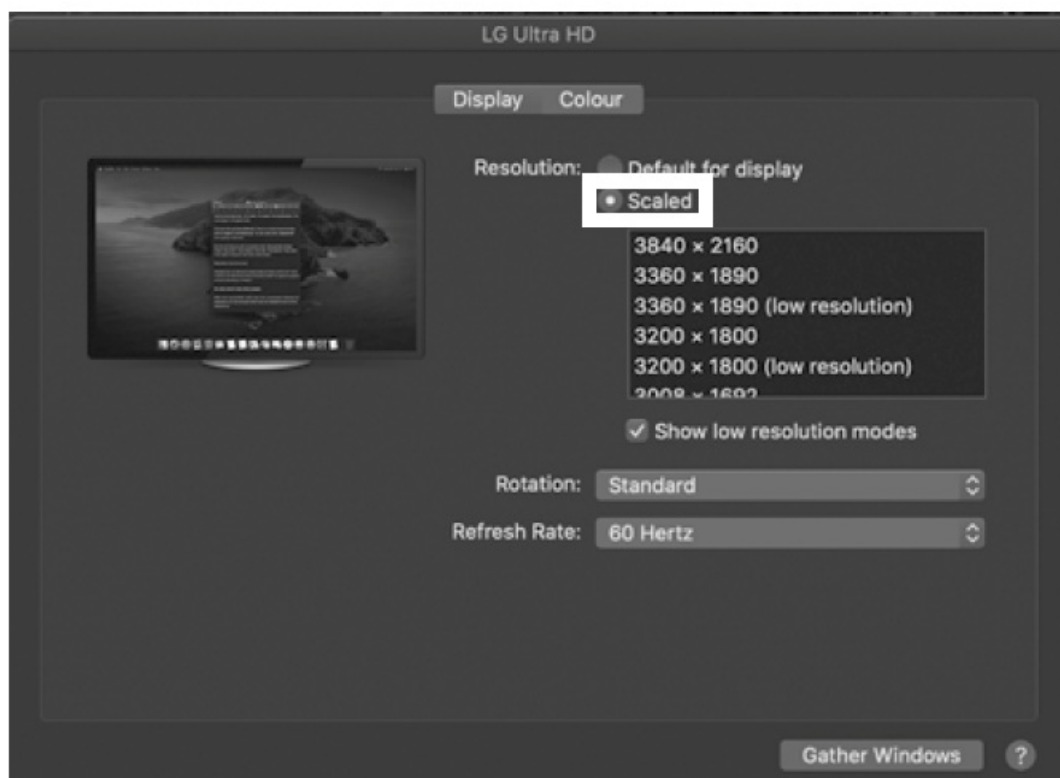
MORE INFORMATION

The information contained in this manual is believed to be accurate and reliable. RaidSonic Technology GmbH assumes no responsibility for any errors contained in this manual. RaidSonic Technology GmbH reserves the right to make changes in the specifications and/or design of the above-mentioned product without prior notice. The diagrams contained in this manual may also not fully represent the product that you are using and are there for

illustration purposes only. RaidSonic Technology GmbH assumes no responsibility for any differences between the product mentioned in this manual and the product you may have. The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. DisplayPort and the DisplayPort logo are trademarks owned by the Video Electronics Standards Association (VESA) in the United States and other countries. USB Type-C and USB-C are registered trademarks of USB Implementers Forum.

FAQs

- **Q: What is the power delivery feature?**
  - **A:** The power delivery feature allows the device to provide power to connected external devices, such as smartphones or tablets, based on their power requirements.
- **Q: Is the IB-DK2106a-CPD compatible with macOS?**
  - **A:** Yes, the IB-DK2106a-CPD is compatible with macOS, along with other supported operating systems.

Documents / Resources

ICY BOX IB-DK2106a-CPD USB Type C Docking Station With Triple Video Output [**pdf**] Owner's Manual
IB-DK2106a-CPD USB Type C Docking Station With Triple Video Output, IB-DK2106a-CPD, USB Type C Docking Station With Triple Video Output, Docking Station With Triple Video Output, Triple Video Output, Video Output

References

- 🧊 **ICY BOX - Create Your Workspace**
- **User Manual**