Manuals+ — User Manuals Simplified.

ICY BOX IB-DK2116-C USB Type-C Notebook Docking Station User Manual

ICY BOX®

IB-DK2116-C USB Type-C Notebook Docking Station
User Manual

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

Contents

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.

1. **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 deenergized 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

2. **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

3. **Hazards caused by a 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

4. **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

5. **Potential data loss**

IMPORTANT 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

6. **Cleaning the device**

IMPORTANT Harmful cleaning agents

Scratches, discoloration, 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

7. **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.

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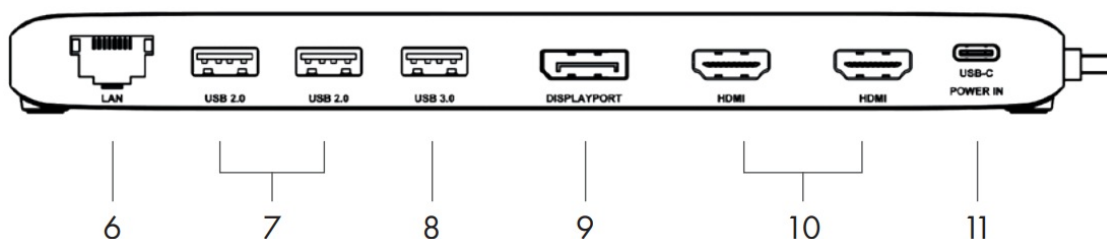
Package content

- 1x IB-DK2116-C,
- 1x manual

View
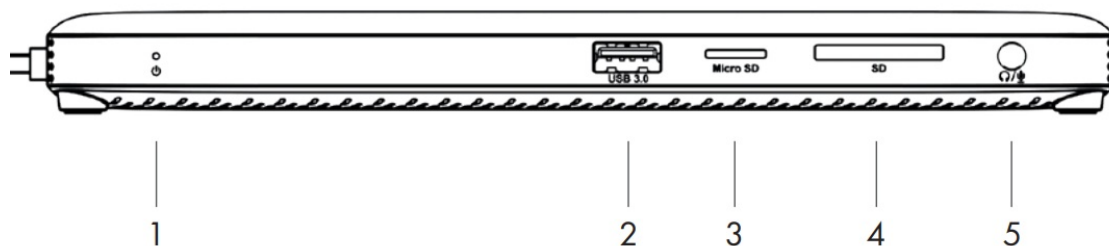
1. LED for power (blue)

2. USB 3.2 Gen 1 Type-A interface, data transfer rates up to 5 Gbit/s and 5 V/0.9 A charging support

3. microSD 2.0 card reader, data transfer rates up to 25 MB/s

4. SD 2.0 card reader, data transfer rates up to 25 MB/s

5. 3.5 mm headset combo jack

6. Gigabit LAN RJ45 interface

7. 2x USB 2.0 Type-A interface, data transfer rates up to 480 Mbit/s and 5 V/0.5 A charging support

8. 1x USB 3.2 Gen 1 Type-A interface, data transfer rates up to 5 Gbit/s and 5 V/0.9 A charging support

9. DisplayPort™ 1.4 interface with up to 3840×2160@60 Hz

10. 2x HDMI® 2.0 interface with up to 3840×2160@60 Hz

11. USB Type-C® PD 3.0 interface with Power Delivery support up to 100 watts (no data transfer)

| USB version information		
Legacy USB standards	**Current USB standards**	**Data transfer rate**
USB 3.0 = USB 3.1 (Gen 1)	= USB 3.2 Gen 1	= 5 Gbit/s
USB 3.1 = USB 3.1 (Gen 1)	= USB 3.2 Gen 1	= 5 Gbit/s
USB 3.2 (Gen 1×2)	= USB 3.2 Gen 1×2	= 20 Gbit/s

Requirements

- USB Type-C® enabled Windows®/ macOS® computer
- Power Delivery and DP Alt Mode support
- Maximum resolution of 4K@60 Hz only via Type-C® DP Alt Mode supported host computers with DP 1.4 (DSC)
- 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™

DisplayPort™ Alt Mode ?

Computer manual
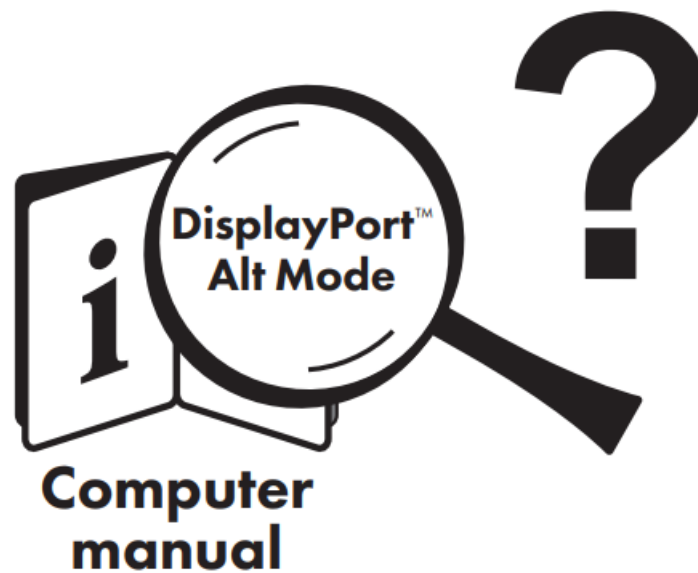
Important!

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, make sure 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.
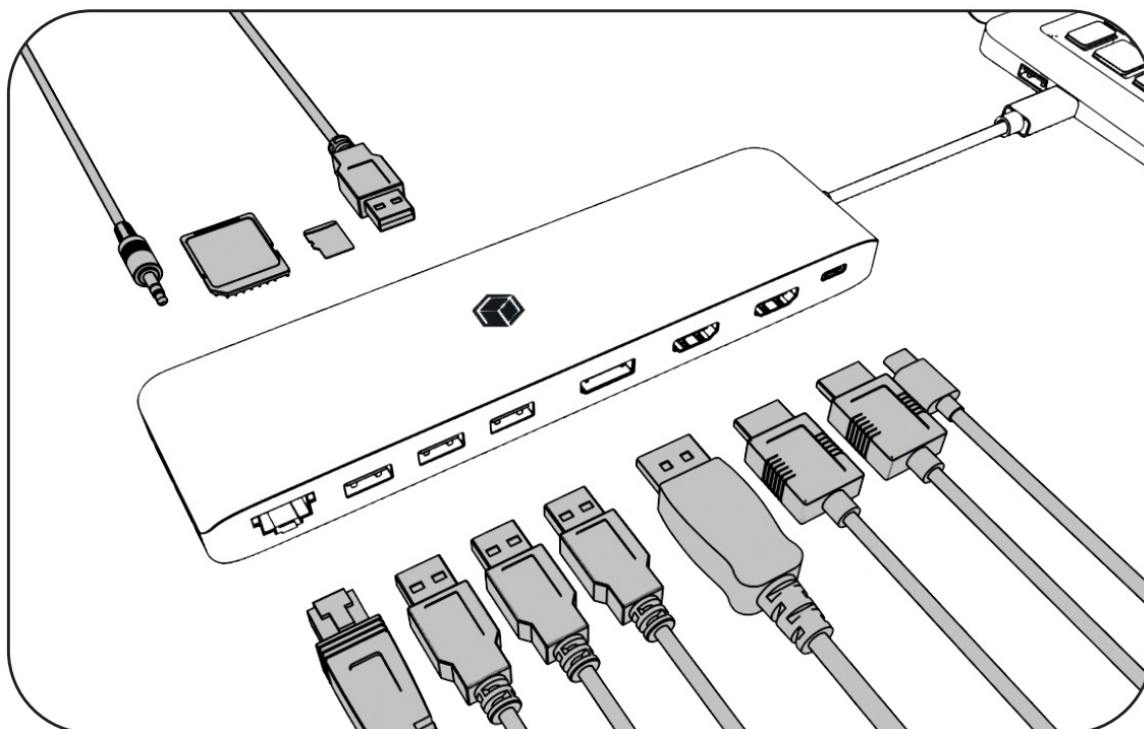
– the Alt Mode HDMI® (4K), the HDMI®/ DisplayPort™ 1 (4K) and HDMI®/DisplayPort™ 2 (4K) interfaces can be used.

Starting up

1. Connect the USB Type-C® cable to the supported USB Type-C® interface of your computer.
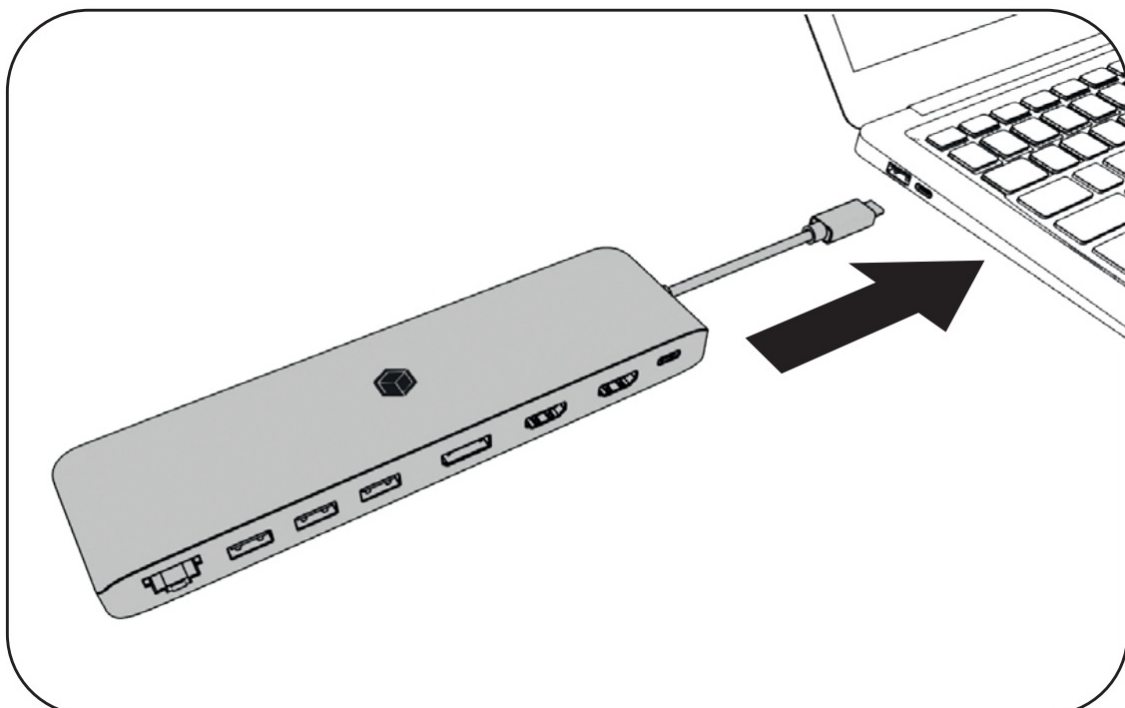
2. Connect your devices to the corresponding interfaces of the dock.

Use of memory card slots
SD card
Insert the SD card into the SD card slot with the beveled corner first. The golden PINs of the card must show downwards.
microSD card
Insert the microSD card into the microSD card slot with the beveled corner first. The golden PINs of the card must show downwards.
Single-LUN – the card reader can only work with one memory card at a time

Configure a display device

Please set up your display settings according to your operating system and requirements.
For detailed information refer to the corresponding operation manual and description of your operating system.
Note: Video output capabilities are dependent on the video graphics card and hardware specifications of your connected host computer. Certain video graphics cards and operating systems have limited MST and DisplayPort™ support, while some monitors will also limit the available resolution.
Supported video resolutions
The IB-DK2116-C supports 4K (ultra HD) resolutions if the connected displays and the graphics unit support it.
Supported video resolutions

Video matrix design (USB Type-C® DP Alt Mode, DP 1.2), maximum resolutions (Windows)						
	Inputs (plug-in)			Output		
Number of displays	HDMI® 1	HDMI® 2	DP	HDMI® 1	HDMI® 2	DP
Triple video output	✓	✓	✓	1600×900@60 Hz	1600×900@60 Hz	1600×900@60 Hz
Dual video output	✓	✓		1920×1080@60 Hz	1920×1080@60 Hz	
		✓	✓		1920×1080@60 Hz	1920×1080@60 Hz
	✓		✓	1920×1080@60 Hz		1920×1080@60 Hz
Single video output	✓			3840×2160@30 Hz		
		✓			3840×2160@30 Hz	
			✓			3840×2160@30 Hz

Video matrix design (USB Type-C® DP Alt Mode, DP 1.4 DSC*), maximum resolutions (Windows)						
	Inputs (plug-in)			Output		
Number of displays	HDMI® 1	HDMI® 2	DP	HDMI® 1	HDMI® 2	DP
Triple video output	✓	✓	✓	3840×2160@30 Hz	3840×2160@30 Hz	3840×2160@30 Hz
Dual video output	✓	✓		3840×2160@60 Hz	3840×2160@60 Hz	
		✓	✓		3840×2160@60 Hz	3840×2160@60 Hz
	✓		✓	3840×2160@60 Hz		3840×2160@60 Hz
Single video output	✓			3840×2160@60 Hz		
		✓			3840×2160@60 Hz	
			✓			3840×2160@60 Hz

Video matrix design (USB Type-C® DP Alt Mode), maximum resolutions (macOS)						
	Inputs (plug-in)			Output		
Number of displays	HDMI® 1	HDMI® 2	DP	HDMI® 1	HDMI® 2	DP
1/2/3-fold video output	✓	✓	✓	3840×2160@60 Hz only mirrored (SST)		

*DSC (Display Stream Compression) support necessary

Windows® display configuration

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

Extended monitor application under MST technology (Multi Stream Transport protocol)

Arrange your displays

Once the extra monitors are connected, they can be configured to either mirror mode, extended mode or 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
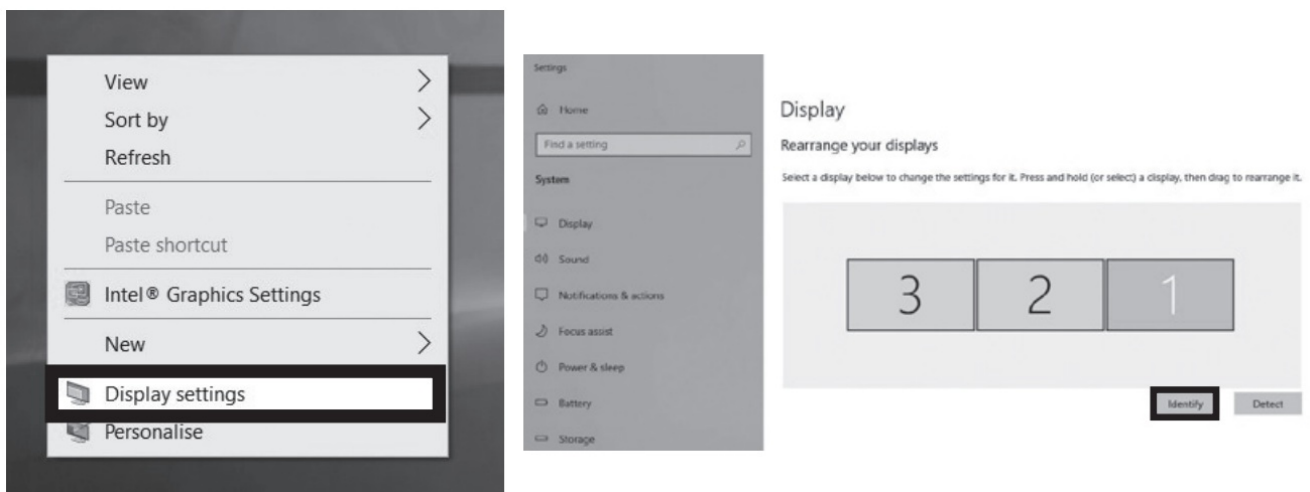
- Identify your monitors by clicking the Identify button.

- 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.

Multiple displays

Multiple displays

1. Extend desktop to this display ∨

☐ Make this my main display

Display resolution

1920 × 1080 ∨

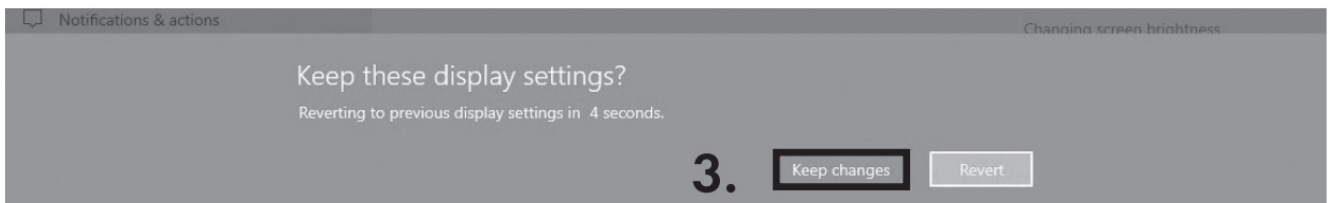**Display orientation**

Landscape ∨

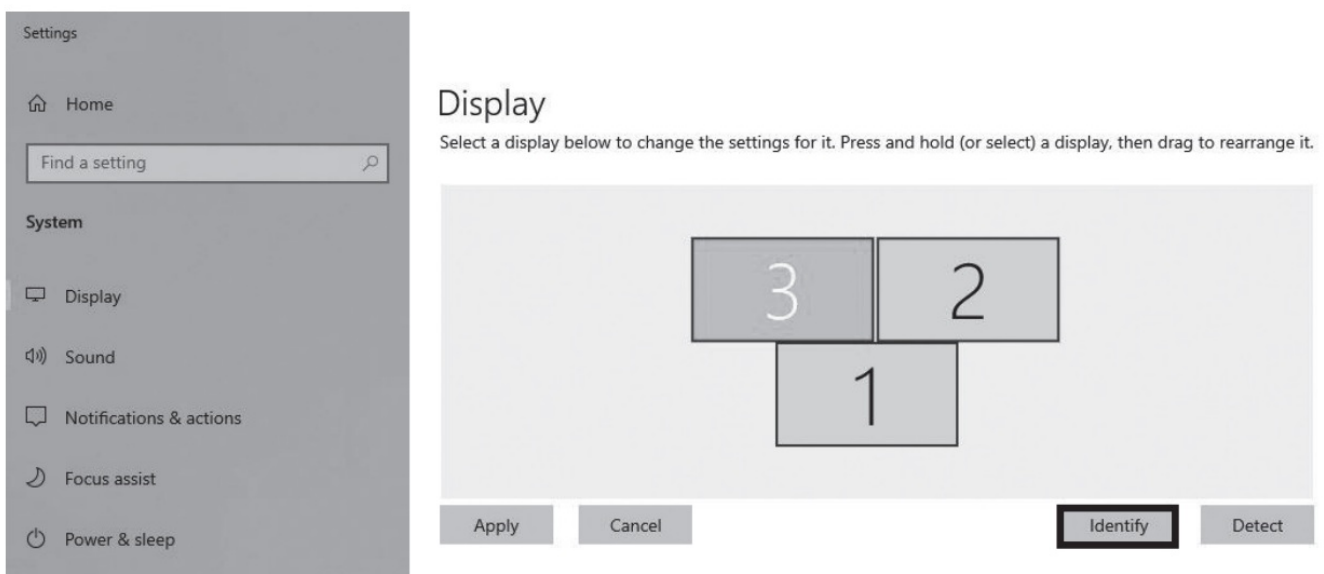Duplicate desktop on 1 and 3

Duplicate desktop on 2 and 3

2. 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.

3. Keep changes   Revert

- 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).

Settings

⌂ Home

Find a setting 🔍

System

🖵 Display

🔊 Sound

🗩 Notifications & actions

☾ Focus assist

⏻ Power & sleep

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 frequency of your displays

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

1. **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

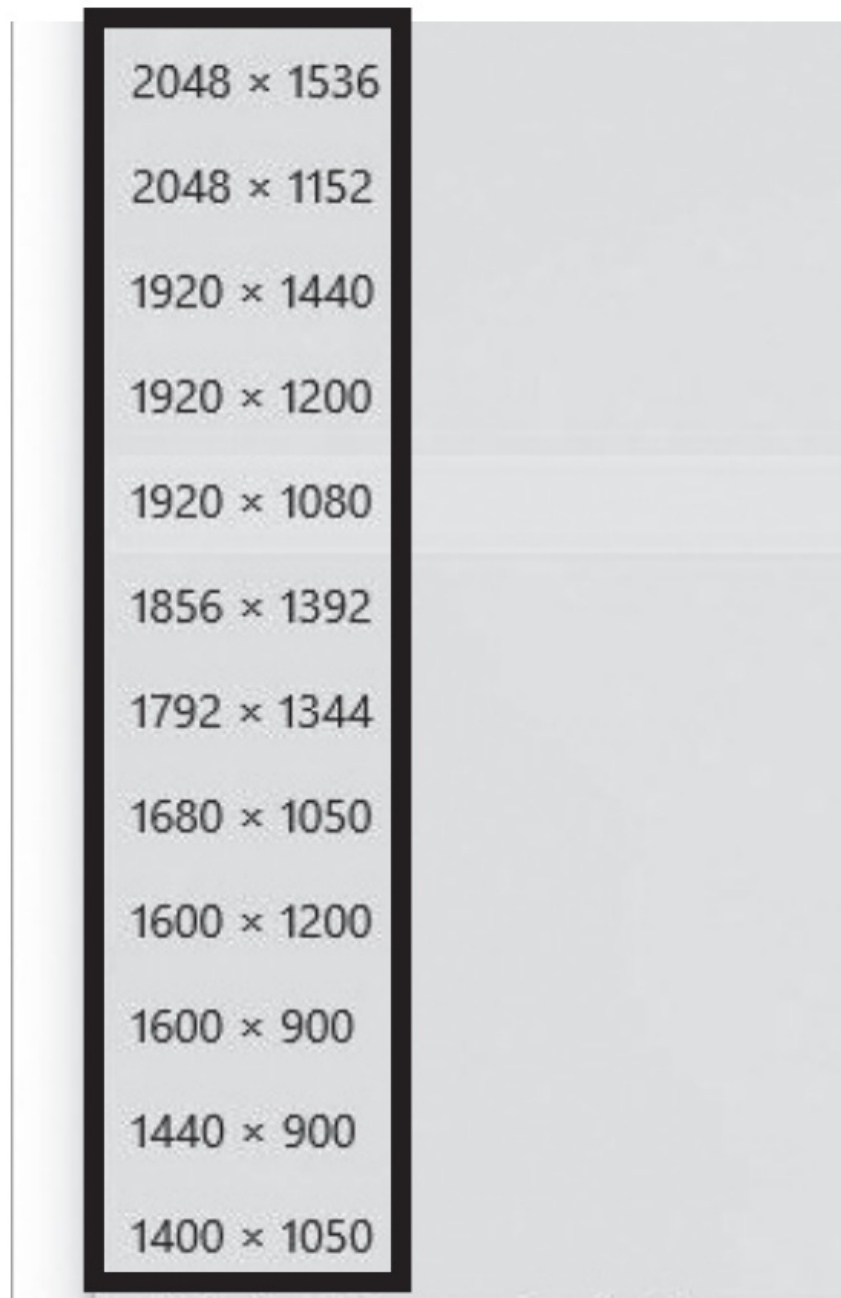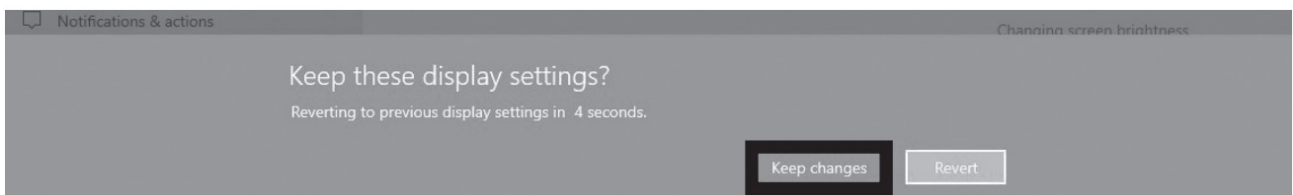100% (Recommended)

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.

Notifications & actions

Changing screen brightness

Keep these display settings?

Reverting to previous display settings in 4 seconds.

Keep changes   Revert

2. **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

1. 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**

← Settings   — ☐ ✕

⌂ Advanced display settings

Choose display

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

Display 2: LG Ultra HD   ∨

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)
3. Display adaptor properties for Display 2

🔍 Get help

👤 Give feedback

A new window opens up

– Click on **List All Modes**
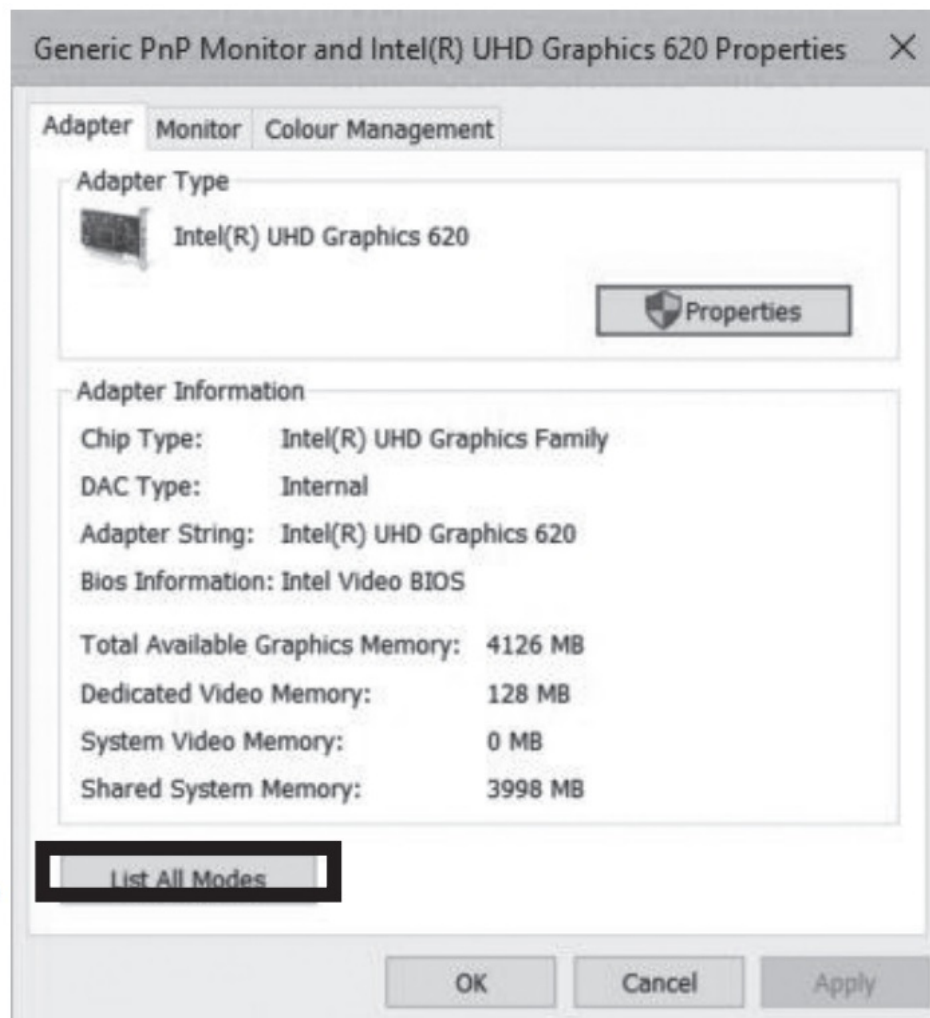
4.

A new window opens up

– Click on a valid mode according to your demands.
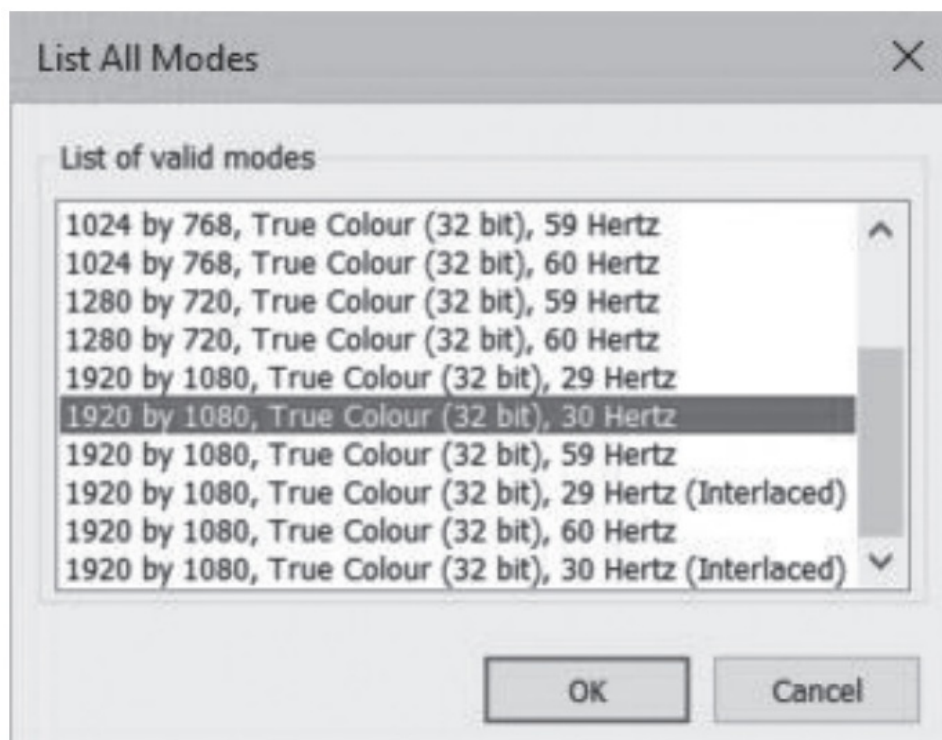
macOS® Display configuration
Once the extra monitors are connected, they can be configured to mirror mode or extend mode.

- Click on System Preferences
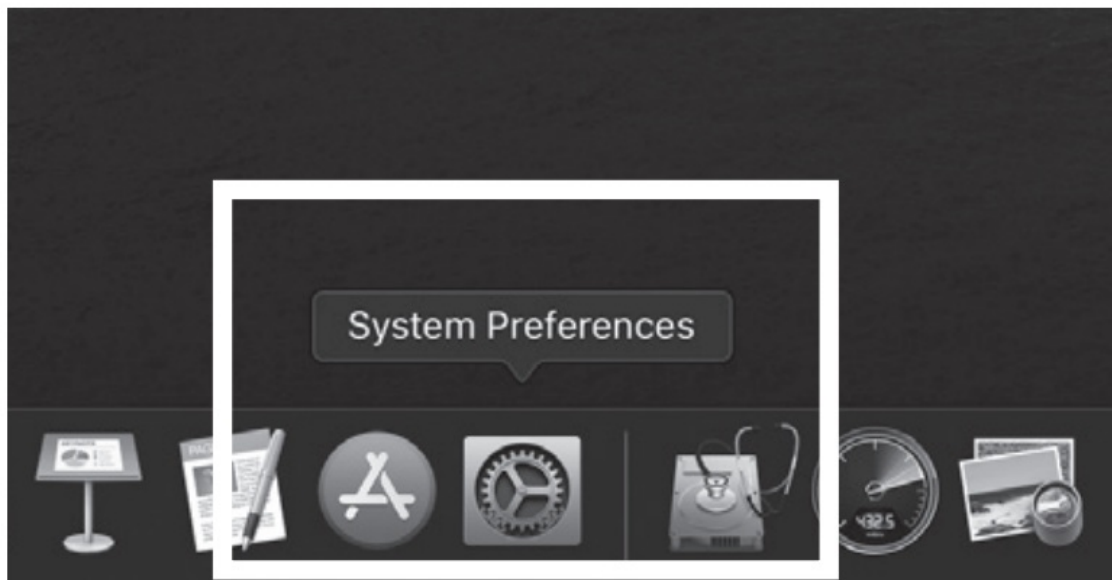
- Click on Displays
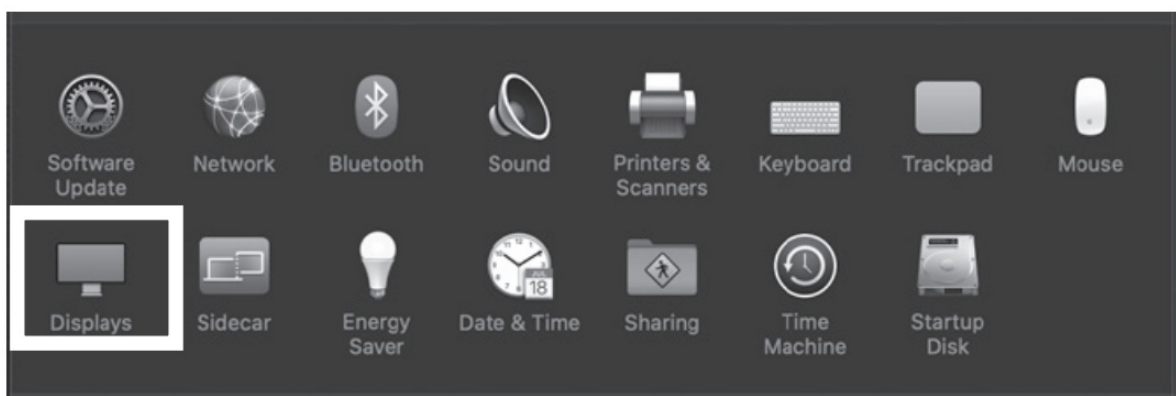

A new window opens up

- 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.
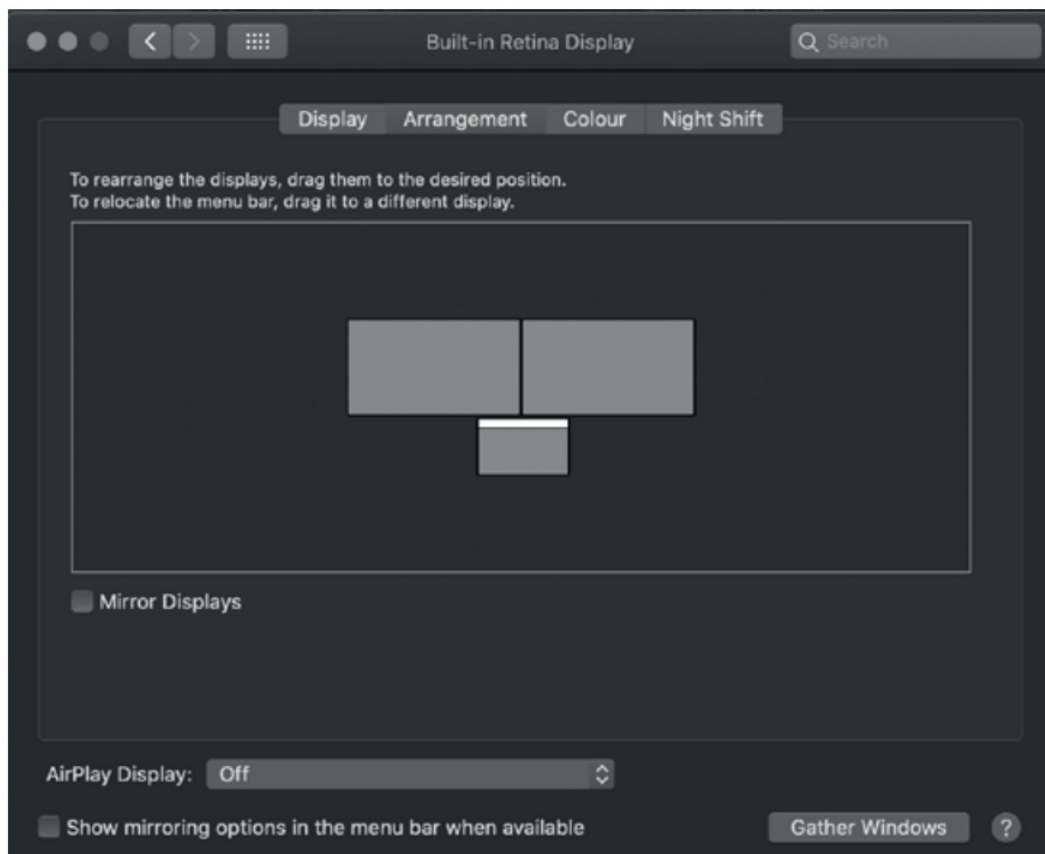
To set up scaled resolutions of the monitor displays, click the Display tab. In the window that now opens for the respective display, you can set your desired resolutions separately. Select the option Scaled and then select the appropriate size in the field below.
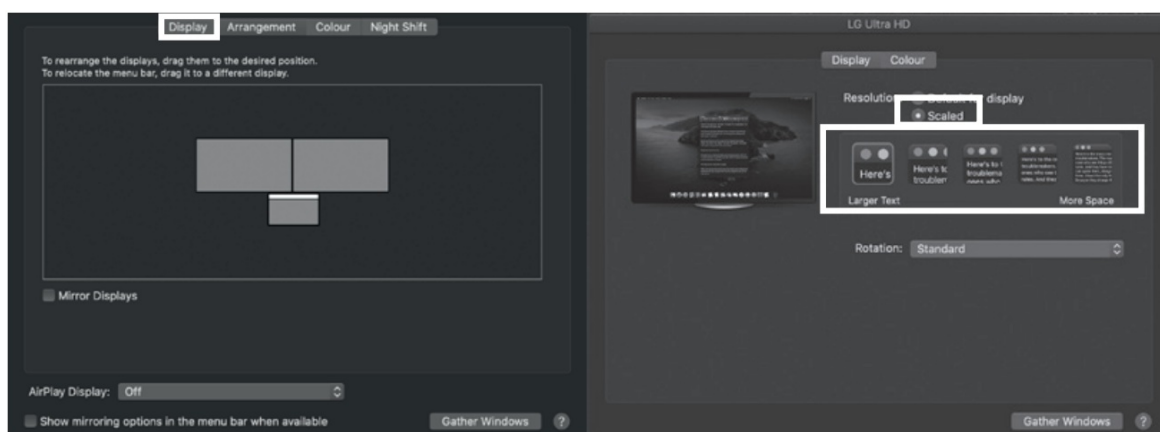
Advanced display settings
Hold down the option key and click on Scaled again and an advanced menu for setting resolution and repetition frequency opens.
Please select your preferred settings here.
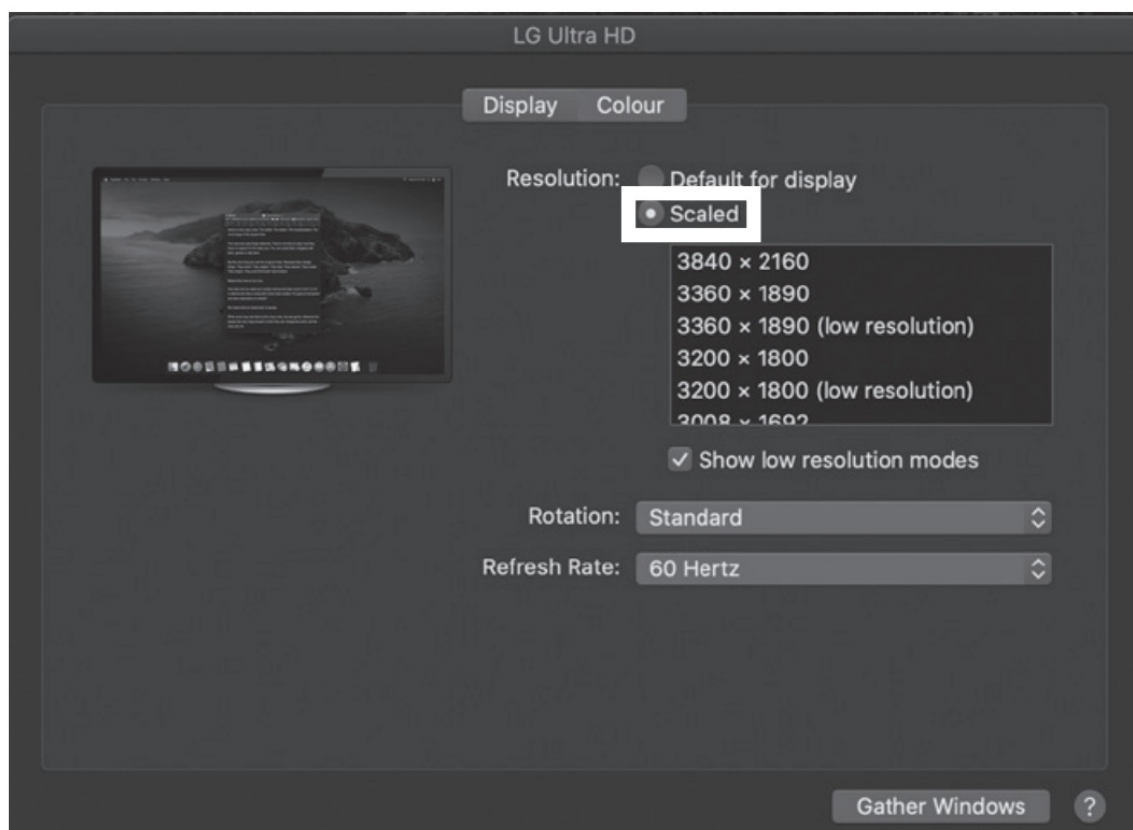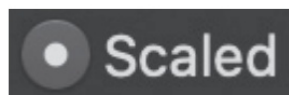
Repeat for each attached monitor if necessary.

 Our products and packaging can be recycled, throw them aces! Find where to drop them off on the site
www.quefairedemesdechets.fr

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Documents / Resources

ICY BOX IB-DK2116-C USB Type-C Notebook Docking Station [pdf] User Manual
IB-DK2116-C, IB-DK2116-C USB Type-C Notebook Docking Station, IB-DK2116-C Notebook Docking Station, USB Type-C Notebook Docking Station, Notebook Docking Station, Docking Station

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