i-tec C31DUALDPDOCKPD USB-C Dual Display Docking Station with Power Delivery User Guide

USB-C Dual Display Docking Station with Power Delivery

2x 4K DisplayPort / 1x Gigabit LAN / 1x USB-C Data / 3x USB-A 3.0 /
2x USB-A 2.0 / 1x Audio+Mic / 1x USB-C Power Delivery+Data
User guide
P/N: C31DUALDPDOCKPD

Please read the entire instruction manual carefully. A detailed manual is available on our website www.i-tec.cz/en/ in the tab „Manuals, drivers“. In case of any issues, please contact our technical support at: support@itecproduct.com

www.i-tec.cz/en

i-tec USB-C Dual DP Display Dock with PD 100 W

Contents

GLOSSARY

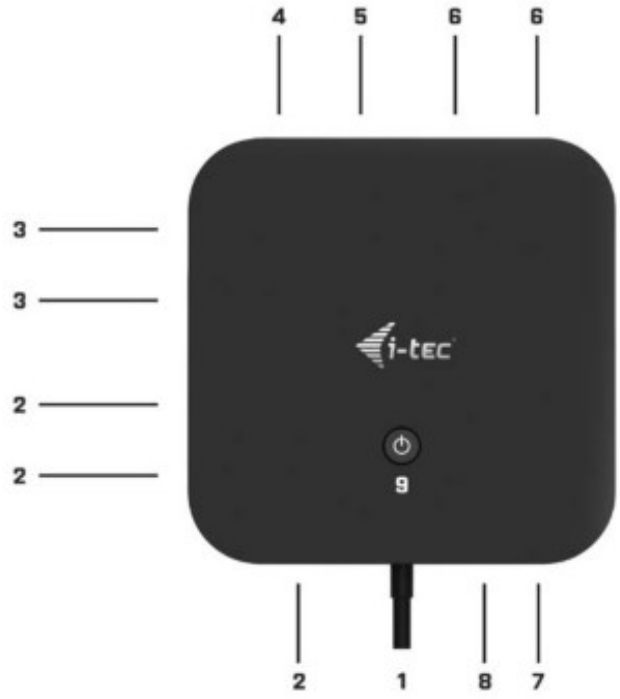
- Interface / port / connector / input / slot – a place where two devices physically interconnect.
- Controller – a semi-conductor component (so-called chipset) in a laptop, tablet, PC, etc. ensuring the operation of a port.
- USB-C – is a new symmetrical connector that allows faster charging, energizing, double-function (a host and a guest), support for alternative modes (DisplayPort, MHL, and Thunderbolt).
- Alternate modes (Alt modes) – special modes for the USB-C connector that can be supported. Currently, the most popular modes are DisplayPort / DockPort, MHL, Thunderbolt. A device with this capability on the port and cable allows video transmission while also retaining other port functionalities (for data transfer and charging via Power Delivery).
- DisplayPort / DockPort Alt mode – this mode allows video transmission via the USB-C port and cable.
- USB-C Power Delivery (USB-C PD) – optional property of the USB-C connector. A connector with this support can charge and be charged at the same time and it supports loads from 10W to 100W (depending on profiles 1-5).
- USB 3.1 / 3.0 / 2.0 – USB interface / port standard for connecting various USB devices. Using the type-A USB

interface allows the connection of various USB devices to a docking station or adapter. The type B USB port is used for connecting a docking station or adapter to a laptop, tablet, or PC.

- Display Port – standard for digital graphics interface/port used for connecting monitors and other display devices.
- LAN (Local Area Network) – the local computer network is now the most popular Ethernet that achieves a theoretical transfer rate of up to 1 Gbit/s at the docking station – GLAN / RJ-45.
- Audio – the designation for sound input (microphone) or output devices (headphones/speakers).

SPECIFICATION

- 1x integrated USB-C cable for connecting to a device (100 cm)
- Docking station technology: USB-C (MST)
- Power Delivery: 100 W
- Video ports: 2x DisplayPort
- Resolution:
  DP 1.2 HBR2: 1 monitor – up to 4K/30 Hz 2 monitors – up to 2x 1080p/60 Hz*
  DP 1.4 HBR3: 1 monitor – up to 4K/60 Hz 2 monitors – up to 2x 1440p/60 Hz*
  DP 1.4 HBR3 DSC: 1 monitor – up to 5K/60 Hz 2 monitors – up to 2x 4K/60 Hz*
- 1x USB-C Gen. 2 port (data only)
- 1x USB-C Gen. 2 + PD port (data + power delivery)
- 3x USB 3.0 port with support for quick charging (BC 1.2)
- 2x USB 2.0 port
- 1x Ethernet GLAN RJ-45 port (Realtek RTL8153)
- 1x 3.5 mm Combo Audio port
- LED indication
- ON/OFF switch for the docking station
- Kensington lock support
- Support for VESA mounting
- OS: Windows 10, macOS*, Android, Chrome OS, and Linux with the latest updates
- Product dimensions: 113 x 113 x 40 mm
  * macOS does not support Multi-Stream Transport (MST) technology. Connecting two monitors to the station on macOS will result in both monitors showing the same image.



DESCRIPTION

1. Integrated USB-C cable for connection to a device (100 cm)
2. 3x USB 3.0 port (5Gb/s)
3. 2x USB 2.0 port
4. USB-C Gen. 2 + PD port (data + power delivery)
5. Ethernet GLAN RJ-45 port – supports 10/100/1000 Mb/s
6. 2x DisplayPort 3.5 mm Combo Audio Jack
7. 3.5 mm Combo Audio Jack
8. USB-C Gen. 2 port (data only)
9. ON/OFF switch for the docking station – button must be held down for two seconds

SYSTEM REQUIREMENTS

Hardware Requirements: Device with a free USB-C or Thunderbolt port
Requirements for Power Delivery feature: device with a free USB-C or Thunderbolt 3 port with Power Delivery support.
Operating system: Windows 10, macOS * and Linux with the latest updates * macOS does not support Multi-Stream Transport (MST) technology.
Connecting two monitors to the station on macOS will result in both monitors showing the same image.

DRIVER INSTALLATION

Windows 10 32/64bit: After connection, the drivers for the docking station are installed automatically on the system. Before installation makes sure that your system has installed the latest drivers for your device and updated BIOS. macOS X: Installation of the drivers in macOS X is automatic. Before installation makes sure that your Mac has installed the latest OS for your device.

CONNECTING A DISPLAYPORT MONITOR

The docking station is fitted with 2x DisplayPorts for connecting external monitors to a DisplayPort interface. Modern plasma, or LCD monitors and TVs, will serve as the perfect display device of choice. The graphics chip at the heart of the docking station supports up to 5x K 5120×2880 resolution @60Hz. Connect the monitor to the docking station using a high-quality HDMI cable. The screen of your laptop, mac, tablet, or PC may flash while installing the external monitor – this is normal.

1

– 1 monitor connected via 2 DisplayPort cables
– resolution up to 5K 5120×2880/60Hz.

5K resolution is only supported if your laptop‘s USB-C/Thunderbolt™ 3 connector supports DisplayPort 1.4 DSC.

2

– 1 monitor connected via DisplayPort/HDMI cable
– resolution up to 4K 3840×2160/60Hz.
4K/60Hz resolution is only supported if your laptop‘s USB-C/
Thunderbolt™ 3 connector supports DisplayPort 1.4 DSC or DisplayPort 1.4 without DSC.
If the USB-C/Thunderbolt™ 3 only supports DisplayPort 1.2, the maximum resolution is 4K 3840×2160/30Hz.

– 2 monitors connected via DisplayPort/HDMI cables
– resolution up to 4K 3840×2160/60Hz.
Only if your laptop‘s USB-C/Thunderbolt™ 3 connector supports DisplayPort 1.4 DSC.

If the USB-C/Thunderbolt™ 3 only supports DisplayPort 1.4 without DSC, the maximum resolution is 2x 2560×1440/60Hz.
If the USB-C/Thunderbolt™ 3 only supports DisplayPort 1.2, the maximum resolution is 2x 1920×1080/60Hz.
The resolution, the frame rate, and the maximum number of connected external monitors depend on the capabilities of the host PC/laptop.

CONNECTING TO THE LAN

You can use the GLAN RJ-45 port for connecting the Ethernet to a router/switch and to the internet, it supports speeds of 10 / 100 / 1000 Mbps.

CONNECTING USB DEVICES

The station‘s USB-A 3.0 and USB-C 3.1 Gen.2 ports can be used to connect your keyboard, mouse, external hard drive, printer and other peripherals, or to connect a hub, giving you additional USB ports to use.

CHARGING

The docking station supports the charging of USB mobile devices, such as smartphones, e-book readers, multimedia players, navigation devices, and tablets. Simply connect the device that you want to charge using the original cable to the USB port of the docking station. If the device is not charged, connect the original USB-C power adapter to the USB-C Power Delivery port of the docking station.

CHARGING THROUGH POWER DELIVERY

The docking station offers a USB-C Power Delivery / Data port, designed for energizing the connected “parent” device using the original power adapter and for charging of devices connected through the USB ports. If you do not need to charge your devices through Power Delivery, you can use the port for data transfer.

AUDIO

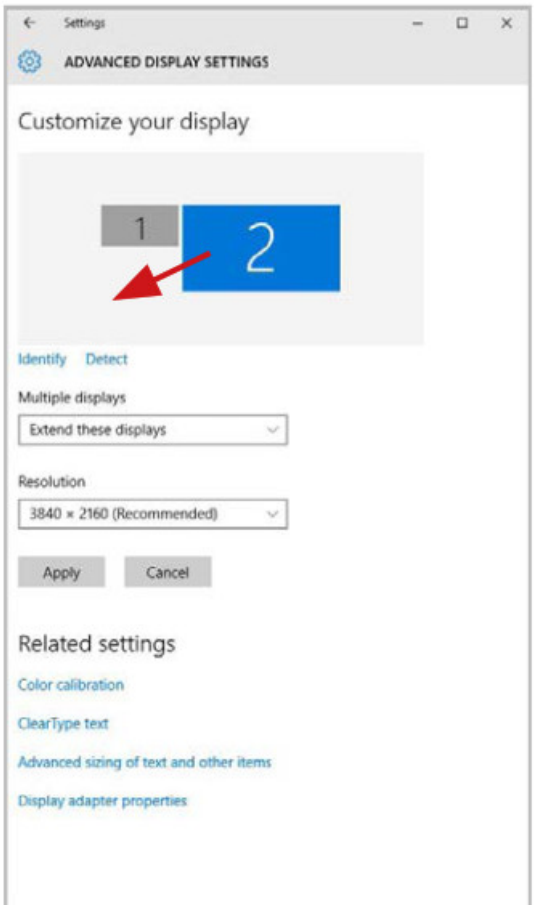
Audio output devices, for listening through graphic output, need to be set/verified here: System Preferences-Sound-Output – select USB Audio Device.
Setting the audio output device to both the earphones and the monitor simultaneously can be done in Open-

Applications-Utilities-Audio settings MIDI.app – click on „+“ on the left at the bottom – Create device with multiple outputs and select the desired outputs from the offered options on the Device with multiple outputs.

The majority of problems with the docking station and the connected peripheral devices can be solved by disconnecting the USB-C cable of the docking station from the USB-C port of the PC / Mac/smartphone and reconnecting after approximately 10 s.

USING IN WINDOWS OS

Advanced configuration for the graphics – after connecting the monitor and clicking on the settings for “Image Resolution” in Windows, you can select the monitor you want to use.



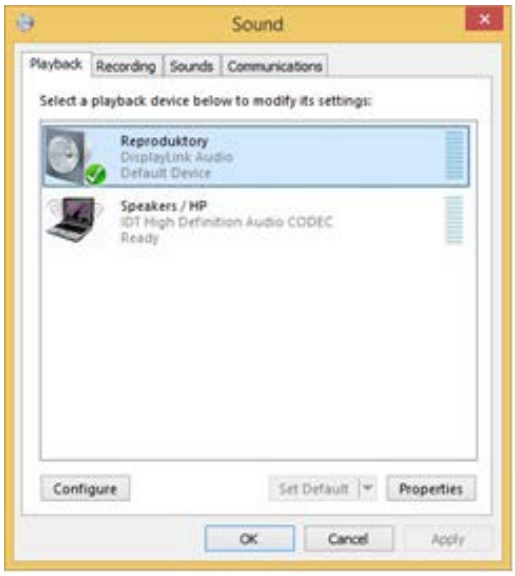
By clicking on the second monitor and moving it you can position this monitor as required relative to the original monitor of your laptop/tablet

Now you can set Extend and Mirror mode:

- Mirror mode: on the monitor select the 2 nd Monitor, select Several monitors → Mirror this displays → OK.
- Extend mode: on the monitor select the 2 nd Monitor, select Several monitors → Extend this display → OK.

Mirror and Extended mode

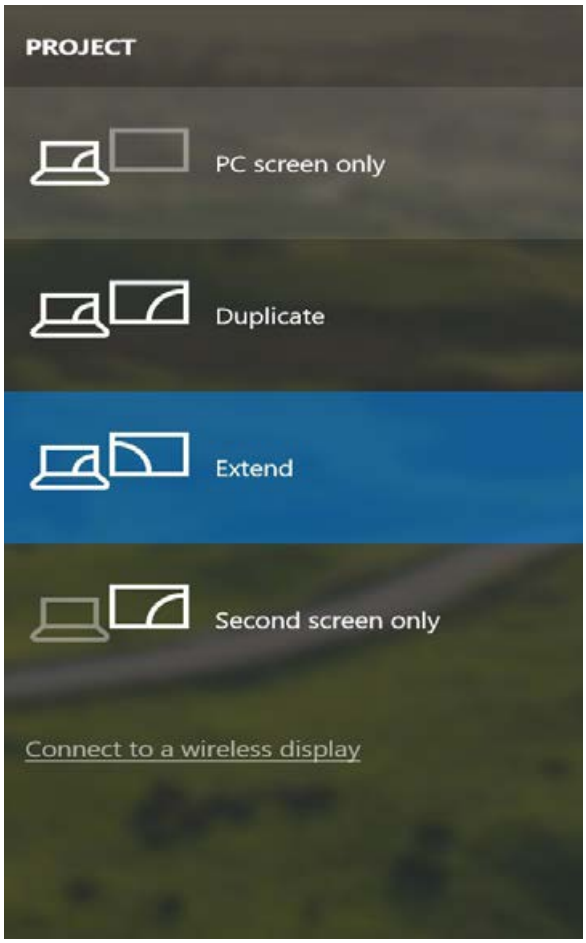
Audio settings – this will allow audio settings in the Control Panels → Audio.



Audio settings

Quick Start

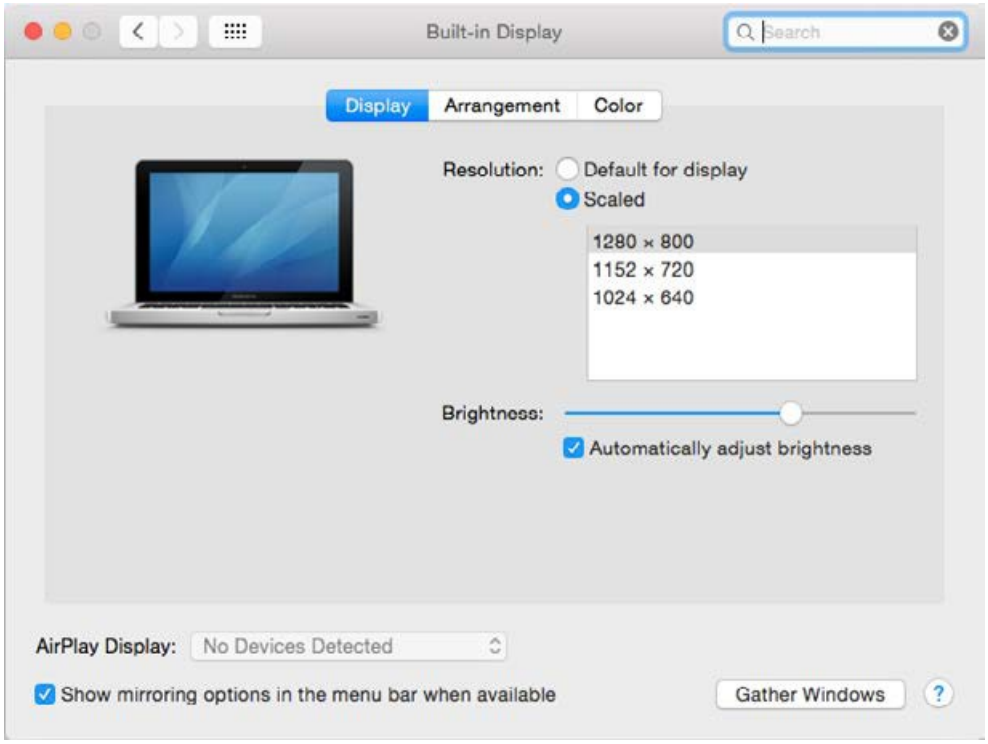
The Standby / Hibernate mode and the Video port – after the activation of the laptop/tablet from the Standby / Hibernate mode the primary (original) monitor is displayed, for this reason, we recommend using the monitor that is integrated with the laptop/tablet as the primary monitor, so that you can log on to the system again.
The Mirror mode – the additional monitor takes on the parameters of the original monitor in the system, i.e., if you select the Mirror mode and the original monitor resolution is e.g. 1280×1024 then the screen will be displayed on the additional monitor with a resolution of max. 1280×1024 (even if you set a higher resolution).
Pressing the keys „Windows“ + P you can also easily control the monitors – for using a monitor in Win 10 you can select: Computer screen only, Mirror, Extend, Second screen only.



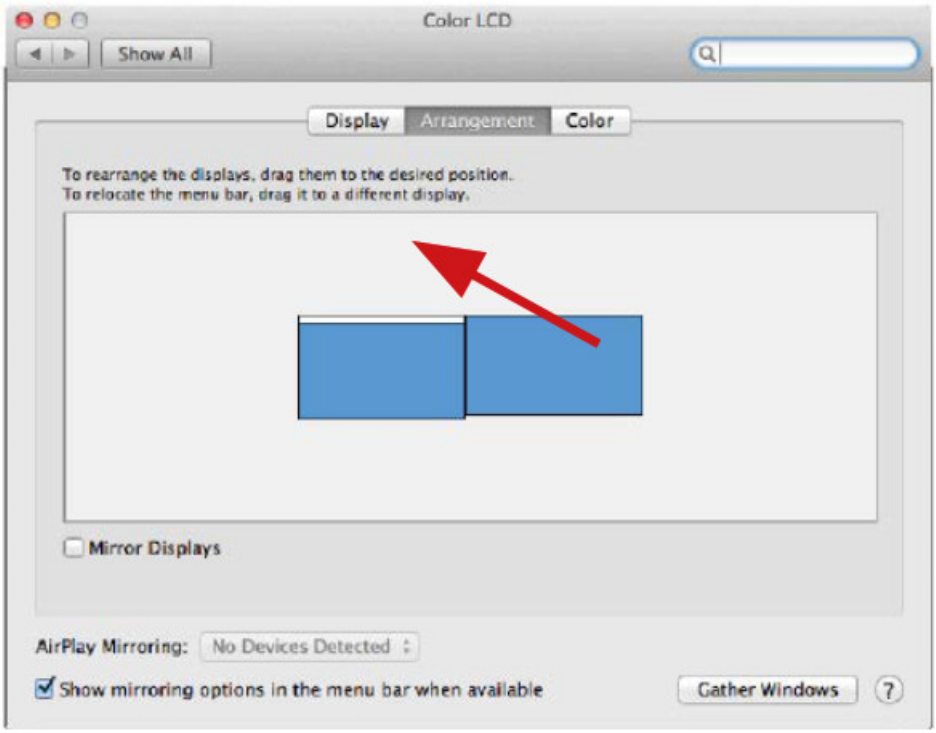
Control the monitor in Windows 10

USING IN MACOS X

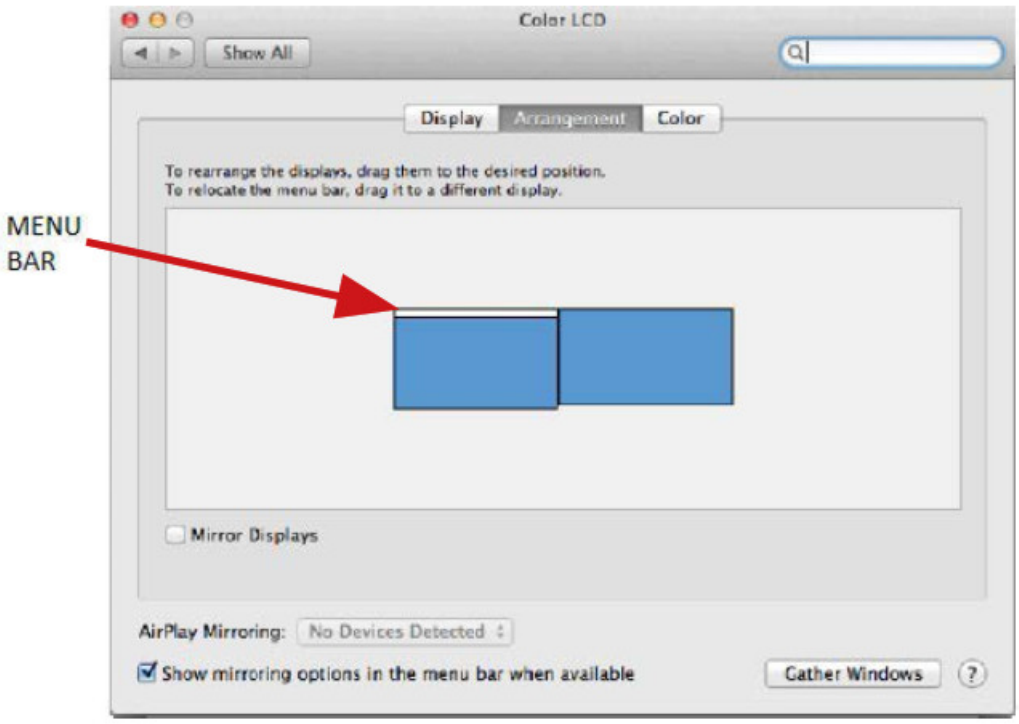
After connecting the monitor, the screen on your Mac will glimmer, which is a standard condition, after stabilization, it is possible to perform the standard setting of the monitor here: System Preferences-Displays:



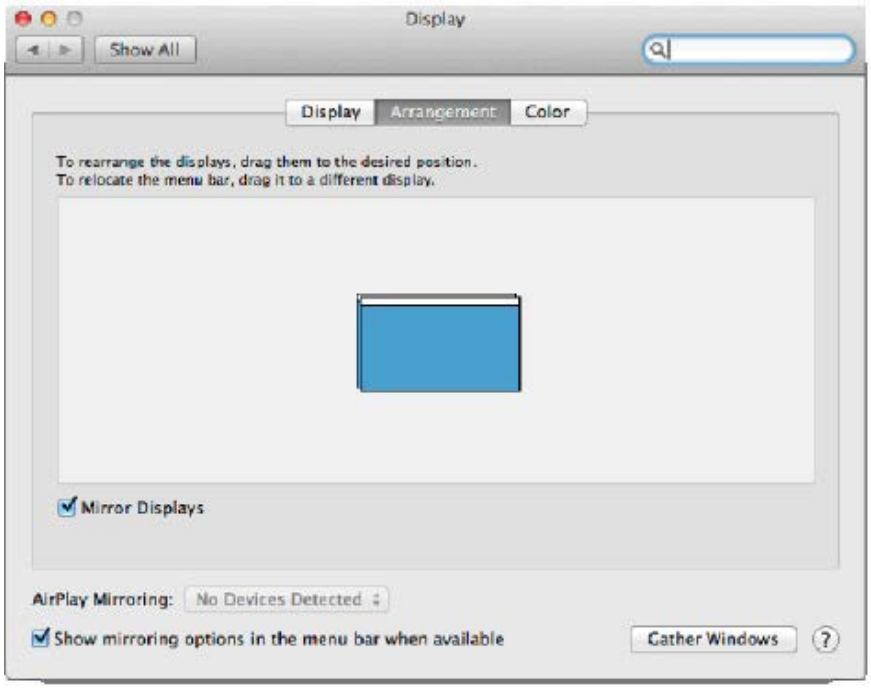
Click on Arrangement and in the default mode (Extended desktop) click on the new monitor and drag it as necessary vis-à-vis the Mac monitor. If you select Mirror displays the mode will change to Mirror (the resolution of the monitors will be automatically adjusted according to their parameters and the highest possible resolution will be set on both monitors). By canceling the Mirror displays option you will return to the extended desktop mode.



Extended mode: The arrow indicates the possible position of the connected monitor vis-à-vis the Mac monitor.

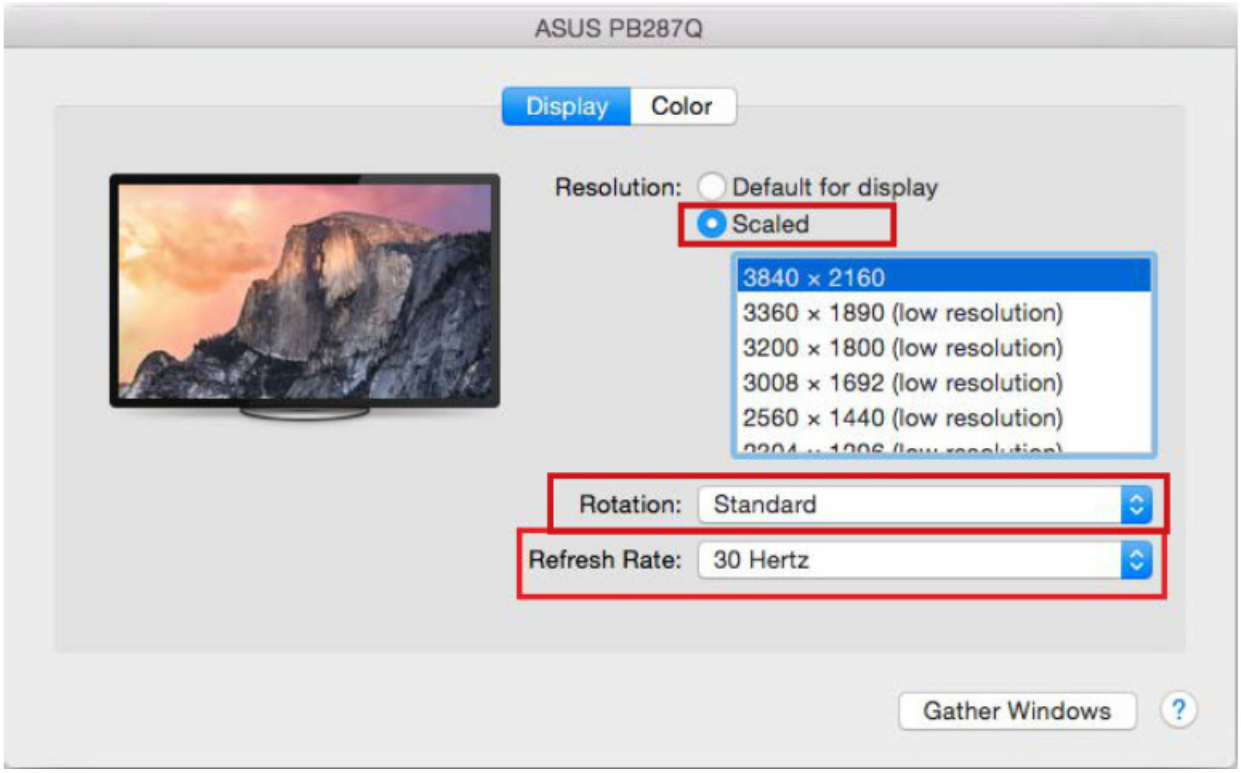


Extended mode: In this mode, you can choose the Main monitor by dragging the Menu Bar.



Mirror mode: This mode can only be used if supported by the Mac.

Click on Gather Windows: using this option you can choose the settings of the corresponding monitor – Scaled (offers available resolutions), Rotation (Standard, 90°, 180°, and 270°), and Refresh rate (if offered). Below the following setting options are displayed. This may vary, depending on your monitor.



Display option 1

Display option 2
In Scaled mode click on the required icon, the resolution is displayed below (which looks like this, 3008×1692 = 4K@30Hz)

Closed-display mode – It is possible to work on the connected monitor when the Mac monitor is closed, but you will require a power supply and mouse and keyboard connection. More information can be found here: h**ttps://support.apple.com/en**-us/HT201834
When the power supply is ensured from the battery, the use of an HDMI monitor is limited by the Mac. In some situations in case of problems with displaying it is possible to solve it by disconnecting the USB-C cable of the docking station from the USB-C port on the Mac and reconnecting t after approximately 10 s. Please wait for the completion of the connection of all peripherals. Most problems with renewing the screen on the connected monitor after the hibernation of the Mac, after using a screensaver, after restarting the Mac, after turning the Mac OFF / ON can be solved by the same way.
The majority of problems with the docking station and the connected peripheral devices can be solved by disconnecting the USB-C cable of the docking station from the USB-C port of the PC / Mac/smartphone and reconnecting after approximately 10 s.

SAFETY INSTRUCTIONS

- Do not expose to extreme temperatures and air humidity.
- Use the device on flat surfaces – you will prevent it from slipping and falling to the ground.
- Save the user manual for possible use later. In cooperation with the service department:
- Check functionality after falling to water or to the ground.
- Check functionality when the cover is broken.
- Send the device back if it does not work in accordance with the user manual.

FREQUENTLY ASKED QUESTIONS

Available on our website **www.i-tec.cz/en/** on the “FAQ” tab of this product.

Ostrava 21. 10. 2020

Ing. Lumír Kraina
Executive Name and Signature

FCC COMPLIANCE STATEMENT
This equipment has been tested and found to comply with the limits of 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.

www.i-tec.cz/en

Documents / Resources

	i-tec C31DUALDPDOCKPD USB-C Dual Display Docking Station with Power Delivery [pdf] User Guide C31DUALDPDOCKPD, USB-C Dual Display Docking Station with Power Delivery