SeeHawk3D 27" Model
Quick Start Guide & Technical Data
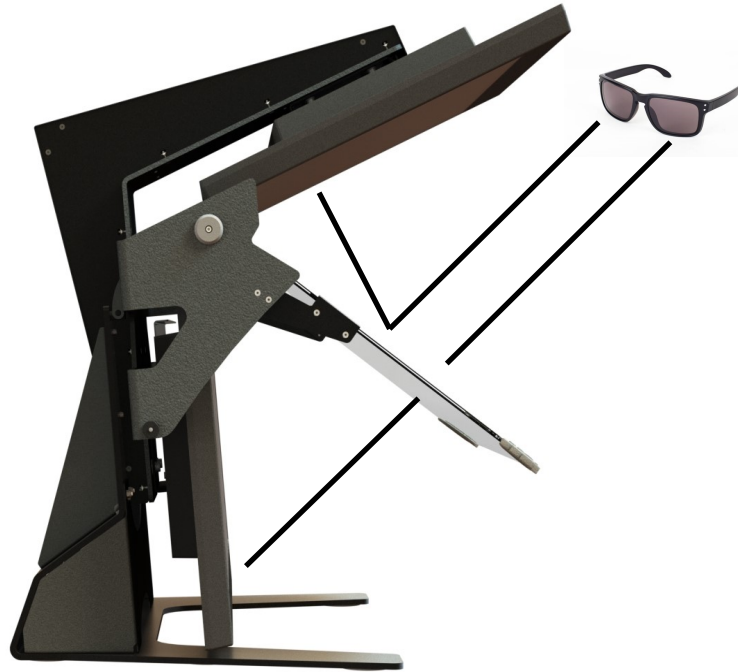
Description of SeeHawk3D 27"
Model WQHD

Designed for professional users of applications such as geospatial & photogrammetry and medical imaging the SeeHawk3D beam splitter displays series utilizes dual displays technology to create an unprecedented level of stereo/3D viewing quality.

The display delivers the full resolution to both eyes for stunning stereo imaging. Viewable in typical office light conditions, the SeeHawk3D 27" display offers wide-angle viewing for multiple users at the same time. Flicker-free operation with passive polarized glasses combined with a unique adjustable and a tiltable stand which allows extended stereo use with no discomfort.

Being plug-and-play with OpenGL and DirectX applications which supports stereo, simplifies the operation of the 2D/3D monitor. A graphics card that supports OpenGL or DirectX stereo is required.
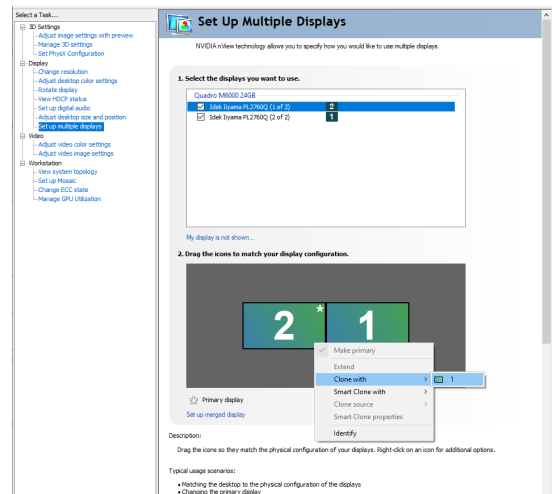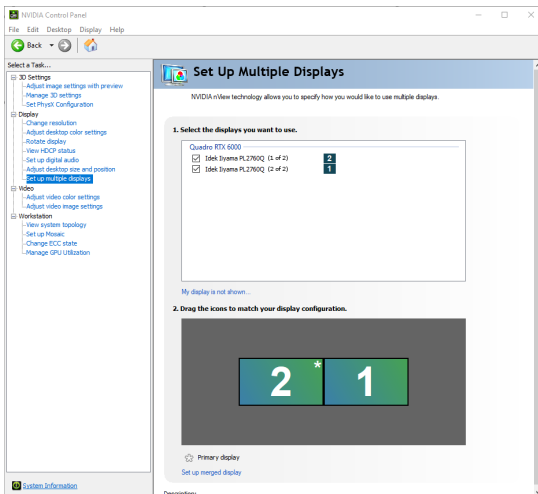
Setting up the connections

Plug the DisplayPort (DP) cables of the See-Hawk3D display directly to an output of your graphics card.

HDMI Mirror Flip Box

*We recommend NVIDIA Quadro graphics cards. **Make sure that your graphics card supports professional Quad-Buffered stereo.
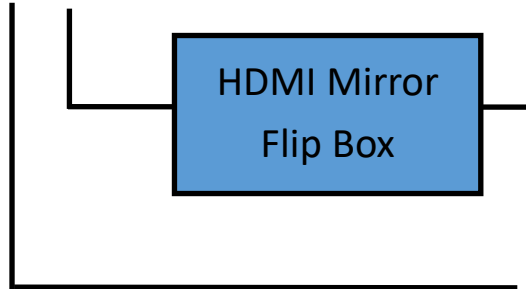
Setting up your graphics card

1. Open the configuration window of your graphics cards driver. Navigate to the point named "Set up multiple displays".

If the SeeHawk3D 27 WQHD/Iiyama27 display is connected correctly, you should see two devices called "Idek Iiyama PL2760Q".

2. Clone the shown displays with each other. This step may differ depending on the way you plugged in the DisplayPort cables of your SeeHawk3D.

There are two methods in doing this and they are on the following page.

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Setting up your graphics card

2. Method 1:

Lower monitor in DisplayPort 1 of GPU
→ will be labelled monitor 2 in NVIDIA Control Panel

Upper monitor in DisplayPort 2 of GPU
→ will be labelled monitor 1 in NVIDIA Control Panel

Clone monitor 2 with 1 (clone source is monitor 2)
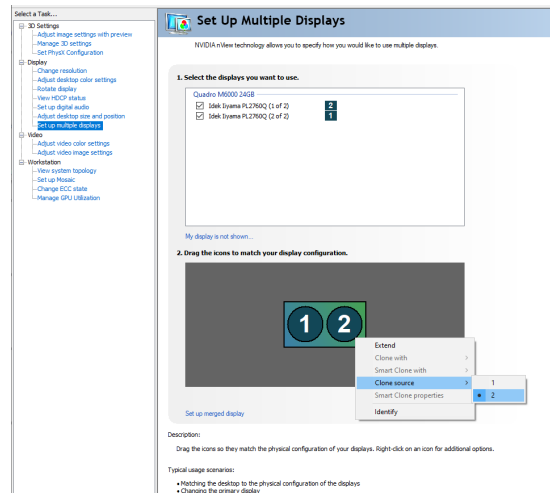
Method 2:

Upper monitor in DisplayPort 1 of GPU
→ will be labelled monitor 2 in NVIDIA Control Panel
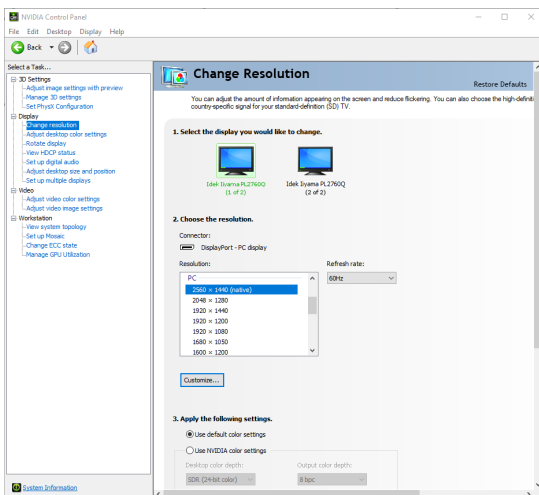
Lower monitor in DisplayPort 2 of GPU
→ will be labelled monitor 1 in NVIDIA Control Panel

Clone monitor 1 to 2 (clone source is monitor 1)

3. Once the displays are cloned, they should be shown as above.

Click Apply.

4. Make sure that the right resolution is selected. Navigate to the point named "Change resolution" and make sure that the native resolution 2560 x 1440 and a refresh rate of 60 Hz are selected.

Click Apply.
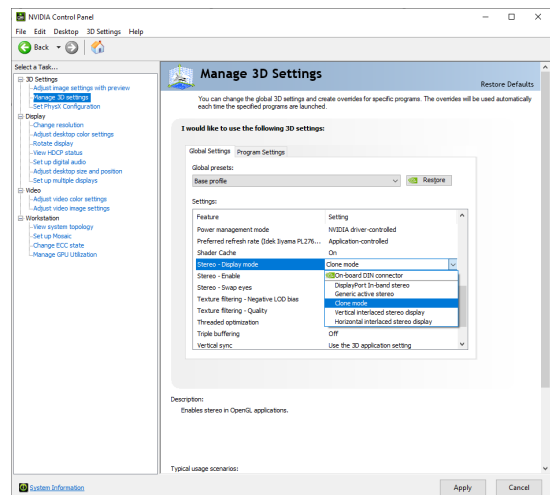
5. Navigate to the point called "Manage 3D settings" set "Stereo - Enable" to "On" and set "Stereo - Display mode" to "Clone mode". Click Apply.

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Testing the 3D settings
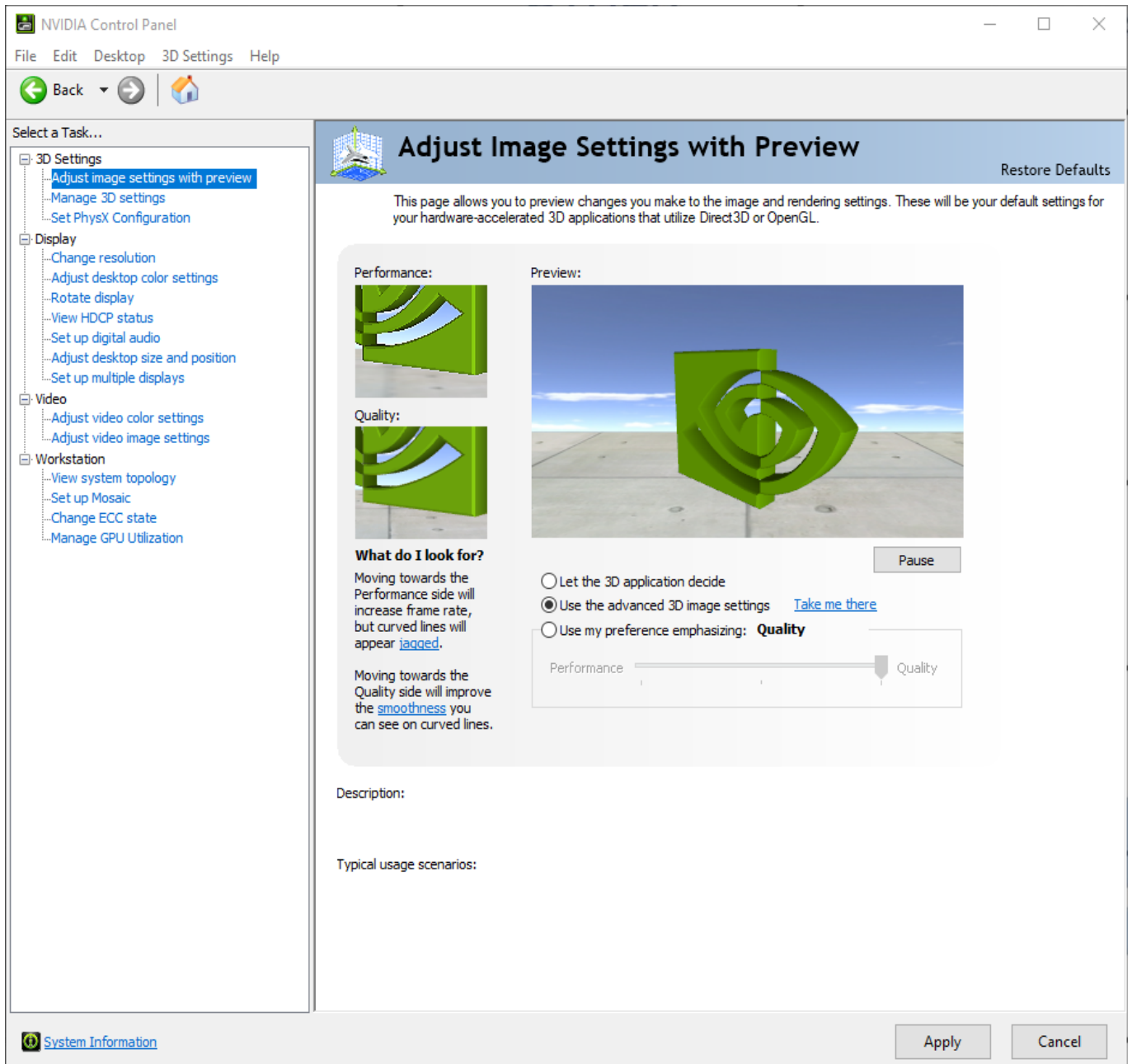

Navigate to the tab "Set up Stereoscopic 3D". If the 3D animation looks strange to you, try to swap the eyes by going back to "Manage 3D-settings" and set „Stereo - Swap eyes" to "On" (the same window as in step 5) If changes were made, click Apply.

Features of viewing angle of SeeHawk3D 27" Model WQHD

The SeeHawk3D 27" gives best 3D experience when the viewing angle is optimal to the angle of screens and mirror. The display can be adapted to users with different height.

When sitting at the desk, the taller user has a different angle of sight than the shorter user. Therefore, the angle in which the display is positioned on the table top can be tilted. This can be done by one person, no tools required. But two people will make the job easier.

The viewer should be seated in front of the screen and the 2nd person holds the top monitor/display and loosens the black plastic knob by turning it counter-clockwise.

The length of the rear strut brace can now be altered by tilting it to the desired angle. The gas pressure springs will ensure the stability of top monitor from further moving.

Once optimal position for the monitor/display has been found, the knob must be tightened.

Features of passive beam splitter mirror for different usage

The passive beam splitter mirror bisects the angle formed between the two monitors, and there is a fine mechanical adjustment for the mirror angle between the two displays.

Adjusting the mirror to fit any user perspective is made easy as each side of the mirror is equipped with a gas pressure spring. Once shifted to a position, the mirror is secured in that position.

Note that the mirror is independent of the rear strut base and therefore can be moved separately.

If you are required to use the SeeHawk3D 27" in monoscopic view, then the mirror should be raised to the top. And when in stereoscopic view, the mirror should be adjusted so that the upper display of the monitor is seen in reflection, a mirror-flip operation must be performed on that data path.

Driving a passive beam splitter monitor is identical to driving a pair of projection displays used to show stereoscopic images with crossed polarizers in the two separate light paths.

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Technical Specifications
SeeHawk3D 27" Model WQHD

Device Name/Panel Type	SeeHawk3D 27" Model WQHD/ IiyamaPL2760Q
Display Size	27" (68,5 cm) per Display
Resolution	2560 x 1440 | WQHD
Colors	16.7 million
Brightness (2D)	350 cd/m² typical
Interface	2x DisplayPort 1.2
Response Time	1 ms
Dimensions with Stand	72 cm x 60 cm x 60 cm (W x H x D)
Weight	24.5 kg /54lbs
Power	100-240V, 50-60Hz
Certifications	CE, TÜV GS
Warranty	12 Months Warranty
Manufactured by	VRLOGIC GmbH, Germany

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