

BILD: Bitte Beschriftung auf 90Hz 10bit ändern. Der Operator braucht eine Brille 😇

UHD-resolution, 8 MP (3.840 x 2.160) Native 4K-resolution @ 90Hz with 10bit Circular line-by-line polarization 3D technology Optional head-tracking and gesture control Innovative, height-adjustable mounting solution Optional wall mounting solution

#### 2D Monoscope or 3D-Stereo

4K passive-stereo LCD display to move seamlessly between 2D and continuous high-quality 3D-stereo with passive glasses.

#### 2D or 3D-stereo with one click

The 3D GlobeView can display 3D-stereo and conventional 2D content, maintaining the full capabilities of a multi-purpose, ultra-high resolution display throughout. The display is compatible with all popular graphics cards and 3D-visualization software tools, provided by various applications, including:

- Data Visualization
- Molecular Modeling
- Engineering and Design
- 3D Production Review
- QC/QA Visualization for 3D Printing
- Oil and Gas Exploration
- Simulation and Training

#### Lightweight, passive 3D Glasses

The 3D GlobeView uses passively-polarized glasses, which eliminate fatigue and eye strain when viewing 3D images, effectively facilitating continuous and comfortable use over many hours per session. Made of durable and robust Nylon material, they are lightweight, inexpensive and do not require any electronic or moving parts.

## Highlights

- 4K Resolution 3.840 x 2.160 @ 90Hz in 2D Mode
- Resolution 3.840 x 1.080 @ 90Hz in 3D-stereo Mode
- Move seamlessly between 2D and continuous stereo
- 3D-stereo passive glasses deliver hours of comfortable use
- Much brighter 3D-stereo than active shutter panel technology

#### Stunning 3D Realism at 4K Resolution

The 3D GlobeView Stereo-Monitor uses filmtype, patterned light-retarder technology to display two images at the same time on a single screen. All pixel lines are circularly polarized in alternate directions so that each line is visible to one eye only. At the full 4K non-stereo resolution, this results in FHD resolution (1080p) in vertical and original 4K UHD (3840p) resolution in horizontal direction. The result is a very bright and sharp 3D-stereo image, especially when compared to formerly used 120Hz active monitors and associated active (battery powered) shutter glasses.

#### The delivery contents, standard

The delivery 3D GlobeView package includes:

1 x 3D GlobeView Monitor

1 x Remote control

1 x Power cable approx. 3,0 m

10 x Circularly polarized 3D glasses

10 x Microfiber glass cleaning cloth

10 x Microfiber storage bag for glasses

## Additional component parts, optional

Mobile, electrically driven monitor stand with mounting platform Monitor wall mount Circularly polarized 3D glasses together with microfiber cleaning cloth and storage bag Tracking camera Tracking targets

Please check that the package is complete and contact Schneider Digital as soon as possible if any of the items listed above are missing or damaged.

#### Unpacking

For transport, unpacking and positioning of 3D GlobeView Monitor its highly recommended to work in pairs.

The 3D GlobeView Monitor is being delivered in cardboard packaging, and, further, in wooden box in order to avoid any risk of damaging the panel or monitor tipping over.



Position the 3D GlobeView transport box in an upright position on a flat solid even surface. Please ensure that the transport box does not fall or tip over, as otherwise danger of the monitor damage exists.



On one side of the wooden box there is a side door. Open this door and take the cardboard box with the 3D GlobeView out. Position the cardboard box in an upright position and prevent it from falling. Never transport the monitor horizontally or store it lying down on its side! **Danger of irreversible damage of the monitor panel!** 

On bottom side of the cardboard box there are four white plastic interlocks, remove these and lift the upper part of the cardboard box off the lower part (which will still hold the monitor and its packing foam material).

For monitor transporting and lifting please use two carrying handles on the back side of the monitor. Do not touch the display with bare hands, as otherwise danger of monitor damage may arise.



For stereoscopic visualization, use your 3D Monitor in landscape format only.



In case you choose to mount the monitor on the wall, please make sure that the wall can support the weight of the monitor. An optional wall mounting for fixture the 3D GlobeView monitor on a flat, vertical surface is available as an accessory (see additional component parts).

**WARNING!** Please keep the complete packaging material (both: wooden and cardboard boxes, foam padding) for possible return shipments in case of support- or warranty claim.

## **3D** GlobeView 80" control elements

Terminal panel for power supply with power switch and signal inputs.



#### **Monitor operation**

The 3D GlobeView monitor is designed in such a way, that the best performance and highest image quality can be achieved at a resolution of 3840 x 2160 und a refresh rate of 90 Hz. At lower refresh rates, the static/moving image or video may appear distorted or blurred.

Color profile, image position and refresh rate settings are best configured with help of monitor control elements. Corresponding changes can be made using 5 Buttons ((INPUT (1), UP (2), DOWN (3), MENU (4), ON/OFF (5)) on the back side of monitor (below the terminal panel (OR pinboard)) or using remote control in the following way:

#### Monitor buttons (M) / Remote Control (R)

1. Press the INPUT (M) / SRC (R) button and use the UP/DOWN (M, R) keys to choose the type of port and press the MENU (M) / OK (R) button to save the settings and exit the current operation.



2. Press the MENU (M) / MENU (R) button to call the OSD (On Screen Display) menu. You can navigate to different menu elements using the UP/DOWN (M, R) keys.



3. Select menu element, which settings you want to configure. Press again the MENU (M) / OK (R) button and use the UP/DOWN (M, R) keys to set settings as desired.



4. Press the INPUT (M) /EXIT (R) button to complete and exit the current operation. All changes made in setup mode will be automatically saved. The menu will be automatically turned off if no adjustments are made for a certain time period. To enter the menu again press the MENU (M, R) button.

The settings of the 3D GlobeView monitor can be as well configured by means of Windows elements in the following way:

- 1. Select Start > Settings > System > Display.
- 2. Select display, which settings you want to modify.
- 3. Open Display Settings.

4. To change your screen resolution, scroll down to Scale and layout and select from the drop-down menu under Display resolution the desired value. In the Multiple displays tab (Windows 11), activate 3D display mode.

The best performance and highest image quality for 3D GlobeView can be achieved at a resolution of 3840 x 2160 und a refresh rate of 90 Hz (10bit color depth, RGB color profile, full output dynamic range). At lower resolution or refresh rate, content might appear blurry or pixelated. Refresh rate higher than 90 Hz (up to 120 Hz) may be alternatively chosen for video or other applications when images need to be quickly moved, rotated etc. However, at this rate only limited color accuracy is achievable (YCbCr444/YCbCr422 profile with 8/10bit color depth (limited dynamic range) or RGB profile with 8bit depth (full dynamic range)).

System > Display		
Brightn	ess & color	
ò.	Night light Use warmer colors to help block blue light	Off • >
HDR	Use HDR More about HDR	4096 × 2160 (3D) 3840 × 2160 (Recommended, 3D)
Scale & layout     2560       5     Scale       Change the size of text, apps, and other items     2040       Image: Display resolution     1920       Adjust the resolution to fit your connected display     1920		2560 × 1600 (3D) 2560 × 1440 (3D) 2048 × 1536 (3D)
		1920 × 1440 (3D) 1920 × 1200 (3D)
₿	Display orientation	1920 × 1080 (3D) 1680 × 1050 (3D)
Ð	Multiple displays Choose the presentation mode for your displays	1600 × 1024 (3D)
	Remember window locations based on monitor connection	1600 × 900 (3D) 1440 × 1080 (3D)
	Minimize windows when a monitor is disconnected	
	3D display mode	On 💶
	Detect other display	Detect
Related	settings	
	Advanced display Display information, refresh rate	>
	Graphics	>

- 5. To change the refresh rate, scroll down to Advanced display.
- 6. In the display tab, under refresh rate, select the rate of 90 Hz.

Select	t a display to view or c	hange its settings	Display 1: DP UHD HDR $\sim$
splay	information		
	DP UHD HDR Display 1: Connected to	NVIDIA RTX A4000	
	Desktop mode	3840 × 2160, 90 Hz	
	Active signal mode	3840 × 2160, 90 Hz	
	Bit depth	10-bit	120 Hz
	Color format	RGB	
	Color space	Standard dynamic range (SDR)	110 Hz
	HDR certification	Not found More about HDR certification	100 Hz
	Display adapter prop	erties for Display 1	
<b>C</b> 1	6 J .		90 HZ
Choo: A high	<b>se a refresh rate</b> 1er rate gives smoother m	otion, but also uses more power More about refresh rate	80 Hz
			60 Hz
			59.98 Hz
			50 Hz
			30 Hz
			25 Hz
			23112
			24 Hz

# Enabling 3D on your NVIDIA graphics card

The NVIDIA graphics driver and hardware settings can be configured with help of the NVIDIA control panel. To enable the stereo mode please perform the following steps:

1. Right click on the desktop and select NVIDIA Control Panel.

	View	>
	Sort by	>
	Refresh	
	Paste	
02	NVIDIA Control Panel	
	NVIDIA RTX Desktop Manager	
	New	>
	Display settings	
	Personalize	

2. Select **Change Resolution** under the Display header in the left-hand menu, choose desired resolution and refresh rate. In **Apply the following settings** tab, you can further configure the NVIDIA color settings.



3. Select Manage 3D Settings under the 3D Settings header.



4. Select Technology, specific for your software, under the Global Settings.



5. Use the drop down menu next to Stereo – Display mode and select **Horizontal interlaced stereo display**.



6. Scroll down to Stereo – Enable and from the drop down menu select On.



7. Select **Adjust image settings with preview** under 3D Settings in the lefthand menu of the screen and select **Use the advanced 3D image settings**.



## Enabling 3D on your AMD graphics card

To enable the stereo mode for your AMD graphics card please perform the following steps:

1. Right click on the desktop and select **AMD Software**.

© View >
↑↓ Sort by >
$\mathbb{C}$ Refresh
① New >
🗔 Display settings
🖉 Personalise
AMD Software: PRO Edition

2. Select **Advanced Settings** under **Performance**. In the **Graphics** tab, activate **Quad Buffer Stereo** (when available, yields best quality stereo output). 3D stereo mode will function as well without this option.

		_
📜 ← → Home Crea	ate Performance	
Applications <b>Graphics</b> Display	EDID	
Terrellation Made		
OpenGL Triple Buffering ⑦	Disabled	•
10-Bit Pixel Format ⑦		-•
Reset Shader Cache ⑦		5
DirectGMA ⑦	Disabled	
Platform Compatibility (?)		
Quad Buffer Stereo		•
Stereo Mode 🕜		

Image: constraint of the served o

3. Use the dropdown menu next to Stereo mode and select Auto-Stereo (Horizontal Interleaved).

#### **NVIDIA/AMD Drivers**

For correct stereo mode operation and 3D presentation please ensure that your 3D GlobeView monitor is connected to the out port on the GPU and not to the integrated video port on the motherboard (check under System - Display - Advanced Display - Display information, shown below) and you have the latest drivers for your graphics card.

System > Display > Advanced display			
Select a display to view or change its settings	Display 1: DP UHD HDR		
Display information			
DP UHD HDR Display 1: Connected to NVIDIA RTX A4000	^		
Adapter Monitor Color Management Adapter Type NVIDIA RTX A4000 Properties	General Driver Details Events Resources           WIDIA RTX A4000           Driver Provider:         NVIDIA		
Adapter Information         Chip Type:       NVIDIA RTX A4000         DAC Type:       Integrated RAMDAC         Adapter String:       NVIDIA RTX A4000         Bios Information:       Version94.4.57.0.8	Driver Date: 8/14/2023 Driver Version: 31.0.15.3713 Digital Signer: Microsoft Windows Hardware Compatibility Publisher Driver Details View details about the installed driver files.		
Total Available Graphics Memory:       81840 MB         Dedicated Video Memory:       16384 MB         System Video Memory:       0 MB         Shared System Memory:       65456 MB	Update Driver         Update the driver for this device.           Roll Back Driver         If the device fails after updating the driver, roll back to the previously installed driver.           Disable Device         Disable the device.		
OK Cancel Apply	Uninstall Device Uninstall the device from the system (Advanced).		

List of preferred drivers for the 3D GlobeView System can be found under the following link:

https://www.schneider-digital.com/wp-content/downloadcenter/Tools\_Ressourcen/3D-PluraView/3D\_PluraView\_supported\_Graphics-Cards.pdf

Alternatively, you can use other graphics cards as well as long as the stereo mode for these can be set to Horizontal Interleaved.

The Quad Buffer Stereo Test Web-Application allows you to verify if the stereo mode works correctly:

https://www.schneider-digital.com/en/downloads-support/downloadcenter/?url=/Tools\_Ressourcen/3D-PluraView/Setup\_nVIDIA\_Quadro\_RTX-PRO If you are experiencing a problem with stereo mode, please check whether the scaling for the display of text, apps and other elements has been set to a value other than 100%. If so, change the scaling to 100%. Under certain circumstances, this may resolve the error.

If the text size appears too small, you can make the font size bigger globally using the following steps: 1. Select **Start > Settings > System > Display**.

Syst	em > Display		
Brightn	ess & color		
ò	Night light Use warmer colors to help block blue light		Off • >
HDR	Use HDR More about HDR		Off • >
Scale &	layout		
63	Scale Change the size of text, apps, and other items		100% ~ >
(0)	Display resolution Adjust the resolution to fit your connected display		3840 × 2160 (Recommended, 3D) V
B	Display orientation		Landscape ~
Ð	Multiple displays Choose the presentation mode for your displays		~
Related	settings		
	Advanced display Display information, refresh rate		>
	Graphics		>
Related	support		
€	Help with Display		^
	Setting up multiple monitors Changing screen brightness	Changing screen orientation Adjusting font size	
	5 5g	, , ,	

2. Scroll down to Scale and Layout, on the Scale tab, select Text size.

System > Display > Custom scaling		
8	You shouldn't change these settings unless you need to—it can cause text and apps to become unreadable. All your displays will be set to the cu scaling size you enter and it can be difficult to go back to your original settings.	istom
Cust Enter	tom scaling 100 - 500 (not recommended)	<ul> <li>Image: A start of the start of</li></ul>
Related	d settings	
AA	Text size	>
	Advanced display Display information, refresh rate	>
	Graphics	>

3. Under the **Text size** use the slider to select the new font size. Once the text size fits, click on **Apply**.

Acc	essibility > Text size			
Tex	t size preview			
The	size of these words will change as you adjus st of the text on your device.	t the slider. Changes you make he	re will apply to	
٨A	Text size	A —•	A Apply	
Relate	l settings			
	<b>Display</b> Monitors, brightness, night light, display profile			>



Technical Data of 3D GlobeView Stereo Monitor

Display

Display size 80" (2032 mm) Resolution  $3.840 \times 2.160$ , RGB-Stripe arrangement 1,07 Billon Colors (10bit)  $400 \text{ cd/m}^2$  brightness (Center 1point, Typ.) Screen aspect ratio: 16:09

LED Backlight-Technology 8 ms Reaction time G/G 178°/178° Viewing angle (H/V)

Contrast ratio: 1.200 : 1

Frame rate	Vertical up to 120 Hz, Horizontal 74 MHz
Pixel Interspace	0,453 x 0.453 mm
Monitor Type	Passive 3D Stereo Monitor
3D Technology	Passive Stereo, circular line by line polarization
3D Characteristics	200 cd/m2 brightness with glasses 3.840 x 1.080 resolution per eye
3D Format	Horizontal interlaced scanning
OS	Windows / Linux / MacOS compatible
Certification	CE
Certification Power Supply	CE Internal power supply, 100-230V, 50-60Hz
Certification Power Supply Power Consumption	CE Internal power supply, 100-230V, 50-60Hz Typical power consumption 167,1 W; Annual electricity consumption 300,2 kWh / Year
Certification Power Supply Power Consumption Surface Finish	CE Internal power supply, 100-230V, 50-60Hz Typical power consumption 167,1 W; Annual electricity consumption 300,2 kWh / Year Hard coating (2H) Anti-glare treatment of the front polarizer (Haze 1% Typ)
Certification Power Supply Power Consumption Surface Finish Weight	CE Internal power supply, 100-230V, 50-60Hz Typical power consumption 167,1 W; Annual electricity consumption 300,2 kWh / Year Hard coating (2H) Anti-glare treatment of the front polarizer (Haze 1% Typ) 92 kg
Certification Power Supply Power Consumption Surface Finish Weight Dimensions	CEInternal power supply, 100-230V, 50-60HzTypical power consumption 167,1 W; Annual electricity consumption 300,2 kWh / YearHard coating (2H) Anti-glare treatment of the front polarizer (Haze 1% Typ)92 kg1.802 x 1.050 x 139 mm (L x H x W)

Technical Notice	Remote control
Warranty	12 Months Bring-in-Service
Optimum Viewing Distance	~ 150 – 600 cm
Visible Display Size	1.740 x 980 mm
VESA Mount	600 x 400 mm

### SAFETY INSTRUCTIONS

#### MONITOR POSITIONING

Place the monitor on an even and stable surface. Do not place any heavy objects on the monitor. Lay cables and lines in such a way that no one can walk on it or trip over them.

#### NOTE THE CORRECT OPERATING VOLTAGE

Please adhere to the specified operating voltage values between 110 - 250 V. Operating at other than specified values may cause fire, electric shock or malfunction of the monitor.

#### PROTECT CABLES

Protect your cables from mechanical load (pulling force, pressure). Do not use a damaged power cord or plug, as otherwise fire, short circuits or a life-threatening electric shock may result.

#### ENVIRONMENT CONDITIONS

Do not place the monitor in disadvantageous ambient conditions such as high humidity and / or severe temperature fluctuations or where it may be exposed to spraying water, exhaust emissions, as otherwise fire, short circuits or other monitor damage may result. Do not expose the device to direct sunlight or other light sources.

#### ENSURE GOOD VENTILATION

Ventilation slots and openings are provided for ventilation to protect the monitor from overheating. These must not be covered or blocked, as otherwise fire danger exists. To ensure sufficient ventilation in case of wall mounting, maintain a distance of at least 40 mm between the monitor and the wall.

#### REMOVE THE CABLES BEFORE TRANSPORTING THE MONITOR

If you need to move the monitor, switch it off, pull out the power plug and ensure that the graphics card data-cable is disconnected. Moving the monitor with a connected power plug may cause damage of the monitor ports or cables, cause fire or short circuits.

#### PLUGGING AND UNPLUGGING

Connect the monitor to the PC and plug it into the power supply only after placing the monitor in its final location. In case you do not plan to use the product for an extended period of time, it is recommended to disconnect the power cord from the power socket to avoid any risk of accidents. When plugging or unplugging the power cable always hold the power cable by the plug. Do not pull the power plug out of the media head socket by pulling the supply cable cord, as otherwise danger of fire or electric shock exists. The Display Port plug has an additional lock button, which you need to press down and hold before unplugging the cable.

#### WARNING! IN CASE OF DANGER IMMEDIATELY SWITCH OFF THE MONITOR!

If the monitor produces abnormal smells, noises or smoke, switch off the 3D GlobeView Monitor and disconnect it from the power supply. Please contact your dealer or service team at Schneider Digital. Further continued use of the monitor may be dangerous or may cause fire or electric shock.

#### NEVER OPEN THE DEVICE COVER

Live parts inside the unit are under voltage and freely accessible. By removing the cover, you expose yourself to the risk of electric shock or fire.

#### NEVER TOUCH THE POWER PLUG WITH WET HANDS

Never touch the power plug with wet hands when removing or plugging the plug into the outlet. Handling the plug with wet hands might give you an electric shock.

#### NOTE TO 24/7 OPERATION MODE

#### This product is not designed for 24h/7 days operation mode

#### ADDITIONAL INFORMATION

#### INSTRUCTIONS FOR ERGONOMIC USE

Do not install or use the monitor against a glaring background or in a dark room to avoid any risk of eye fatigue. To ensure a viewing comfort, the center of the monitor needs to be at viewer eye level and the distance between the monitor and the viewer should be at least 150 cm or more. Using the monitor for an extended period, take at least a ten-minute break after every hour to ease eye strain.

#### CUSTOMER SERVICE

#### GENERAL INFORMATION

In case you need to send the monitor for service and the original packaging is no longer available, please contact your dealer, who can further provide you with replacement for packaging.

#### CLEANING INSTRUCTIONS

#### CAUTION

Always switch off and unplug the monitor from the power source before you clean it. If during cleaning some water, other liquid or solid items gets accidentally inside the monitor, switch it off immediately, unplug the power cord, contact your dealer or service team of Scheider Digital.

#### INSTRUCTIONS

Do not clean the monitor surface with rough cloth or other harsh materials. Never use for this purpose strong detergents as listed below.

# The following cleaning products destroy the screen surface and react directly with the monitor finish, therefore their use for cleaning purposes <u>is strictly prohibited</u>:

Thinner or solvent / scouring cream / spray cleaner / wax / spirit or benzine / acids or bases.

#### HOUSING

Dust and small stains can be carefully removed with a damp cloth. To moisten the cloth, use diluted solution of mild detergent.

#### LCD SCREEN

Use a soft dry cloth for regular cleaning of the monitor, and, if needed, use diluted solution of mild detergent.

Wet a soft and dry cloth in water and wring thoroughly to clean the exterior of the product. Do not spray water or detergent directly on the display.

Do not use paper towels to clean the monitor. as these may damage or scratch the LCD screen panel 3D film.

#### POLARIZED FILTER GLASSES

The polarization glasses must only be cleaned using the microfiber eyeglass cleaning cloth provided in the 3D GlobeView delivery package.

# **CE Documentation - EC Declaration of Conformity**

in accordance with the EC Low Voltage Directive 2014/35 / EU as set out in Annex III B; of 26 February 2014.

We hereby declare that the product described below conforms to the essential safety and health requirements of the EC Directive Low Voltage in its conception and design as well as in the version which we have placed on the market. In the case of a modification of the product that has not been coordinated with us, this declaration loses its validity. The sole responsibility for issuing this declaration of conformity shall be borne by the manufacturer.

#### Manufacturer / Authorized signatory:

Schneider Digital Josef J. Schneider e. K. Maxlrainer Str. 10 D-83714 Miesbach

#### Object of the declaration:

#### A17115 3D GlobeView 80" UHD (4k) passive Stereo Monitor

Subject of the declaration:

- Stereo monitor for photogrammetric image analysis, Manufacturer No.: 17115 Compliance with other directives / regulations applicable to the product is also stated:

EMC Directive (2014/30 / EU) of 26 February 2014 RoHS Directive 2011/65 / EU of 8 June 2011 REACH SVHC above 0.1%: Lead

#### Applied harmonized standards, in particular:

EN 60950-1 EN 61000-6-2 EN 61000-6-4 EN 55024 EN 50581 EN 82079-1

Other technical standards and specifications used:

Place and date: Miesbach, 02.11.2023

Details concerning the person of the signatory losef J. Schneider CEO

Josef J. Chunder n. K. - Mastrainer Str. 10 - D-63714 Minchack Telefon: -40 (010025) 0030-0 Fax: -40 (010022 / 0038-20 s-mail intographicider-digitat da www.achimider-digital.de