

VIEWMEDIC CLINIO 3 DISPLAY



- 24-inch monitor for use in the medical field
- Can be operated while wearing surgical gloves
- Several images can be displayed simultaneously
- With Full HD and WUXGA resolution

rein medical

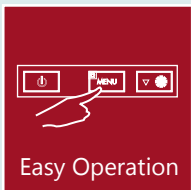
We make your eHealth come alive

CLINIO 3 DISPLAY – THE MONITOR

FEATURES AND FUNCTIONS



The anti-reflective coating ensures an optimum image even in difficult environmental conditions.



The **CLINIO 3 DISPLAY** is operated using a capacitive touchpad, the **COMMAND BAR**. This is integrated in the front panel.



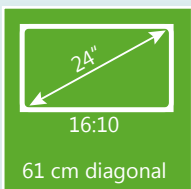
The monitor can also be operated while wearing surgical gloves.



The planar surface of the **CLINIO** enables thorough wipe-down disinfection, reducing the risk of cross or smear contamination.



The **COMMAND BAR** allows you to directly store up to seven individual profiles for users or work contexts and subsequently call them up.



With an aspect ratio of 16:10, the **CLINIO** displays Full HD pictures that fill the screen and also offers space for additional controls.



The resolution of 1920 x 1200 pixels allows the finest details to be displayed.

EXCELLENT DISPLAY

The **VIEWMEDIC CLINIO 3 DISPLAY** is an ideal monitor for the medical environment: an excellent display, hygienic operation and a multitude of signal inputs. Further benefits are the fanless design, easy cleaning and the possibility to customise the monitor with numerous configuration options.



HYGIENIC OPERATION

The **CLINIO 3 DISPLAY** has a fully planar front, with no drip edge or controls that protrude. The **VIEWMEDIC COMMAND BAR** is a capacitive touchpad that is integrated in the front panel of the **CLINIO 3 DISPLAY**. It makes operation of the monitor especially easy and hygienic. The **COMMAND BAR** can also be operated while wearing surgical gloves. A total of ten screen profiles are available for storing the user's personal settings, seven of which can be called up directly via the touchpad.

FOR EVERYDAY USE IN THE MEDICAL FIELD

TWO IMAGES ON ONE MONITOR

With its various inputs, the **CLINIO 3 DISPLAY** can display the images of the connected medical devices – it is even possible to display two images on one monitor simultaneously. With PIP, the sub-image is shown within the main image. In POP mode, the two images are shown side by side, either in proportional display (1:1), in **ZOOM** mode or **STRETCH** mode.



SLIM DESIGN

The new, slimmer design opens up even more areas of application for the **CLINIO 3 DISPLAY**: Thus, it can be positioned on a desk using the optional base. Wall mounting or attachment to a monitor arm is also possible using the VESA mounting holes (VESA 100) on the rear side. When mounted on a cart, the **CLINIO** becomes a mobile image viewer.

FEATURES AND FUNCTIONS

The **CLINIO 3 DISPLAY** offers certified safety according to the EN 60601-1 and EN 60601-1-2 standards and is developed and produced using a quality management system for medical devices.



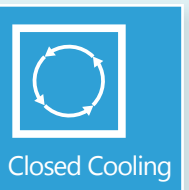
Only hardware for industrial applications is used in the **CLINIO 3 DISPLAY**. Such hardware is superior to conventional hardware in terms of longevity and resilience.



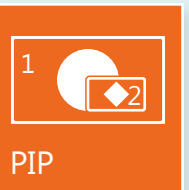
With correction of the tone value according to DICOM, the display of greyscale images is adjusted to the vision of the human eye. This way, all details become visible.



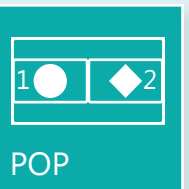
The **CLINIO 3 DISPLAY** has no ventilation slots. This prevents dust and germs from being circulated.



The **CLINIO DISPLAY** is able to display images from two signal sources simultaneously. In Picture-In-Picture (PIP) mode, one image is displayed within another image. The size and position of the sub-image can be changed.



With Picture-outside-Picture (POP), two images are displayed side by side. Three different modes (1:1, **STRETCH** and **CENTERZOOM**) ensure the best possible display of the images.



The VESA 100 mounting holes on the rear side enable wall mounting or attachment to a monitor arm. Two different sets of VESA mounting holes guarantee a high level of flexibility.



CERTIFIED AND FLEXIBLE

A VARIETY OF INPUTS



VGA

The CLINIO has a wide range of inputs, and is thus able to display the images of many different modalities. The following signal inputs, for instance, are available:



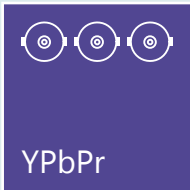
RGSB

- VGA
- RGSB
- CVBS (FBAS)
- S-Video



CVBS

- Component Video (YPbPr)
- DVI-D
- HDMI 1.3a (without HDCP, no audio)



YPbPr

The optional 3G/HD-SDI module can be used to display images from professional video applications.



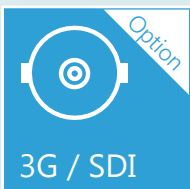
DVI

With this module, the CLINIO 324D displays images in the highest quality according to the following standards:



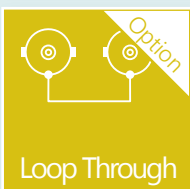
HDMI

- SMPTE 292M: HD-SDI with 1.485 Gbps, 1080i
- SMPTE 424M: 3G-SDI with 2.970 Gbps, 1080p



3G / SDI

The uncompressed transfer of video signals over fibre optic or coaxial cable enables lossless display in the highest quality.



Loop Through

The optional 3G/HD-SDI module also offers a corresponding loop-through output for each of the inputs. This allows the signals from the modalities to be forwarded to other displays.

REMOTE CONTROL WITH KVM

A KVM EXTENDER can be optionally integrated in the CLINIO. This extends the possibilities of the monitor, as images that are fed from medical devices into the CLINIO 3 DISPLAY can be distributed. Distances of up to 100 metres can be bridged in this way. Furthermore, an externally located PC can be remotely controlled from the CLINIO 3 DISPLAY and the PC's images can be displayed on the CLINIO DISPLAY.



SIMPLE CABLING

The Component Video (YPbPr), 3G/HD-SDI and CVBS interfaces are available as BNC connectors. This means that the cabling can be installed using RG6 coaxial cables (75 Ω), which are easy to handle. Cinch cables can be connected via adapters.

PERFECT FOR RIS, HIS AND CO.

CERTIFIED DEVICE

The **CLINIO 3 DISPLAY** has been tested according to the DIN EN 60601-1 and DIN EN 60601-1-2 safety standards. Only devices that fulfil these conditions should be used in patient environments or in combination with other medical equipment and provide the operator with the relevant device safety. The **CLINIO** can also be used in hygiene-critical areas, as confirmed by the *Institute for Medical Microbiology*.

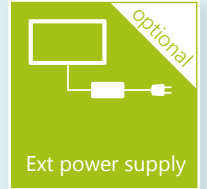


PROTECTED CONNECTIONS

All connections of the **CLINIO** are protected by an optimally adjusted hygiene cover. The cover can be removed by simply taking hold of it (no tool is required), and can be quickly put back again. The use of various cable seals prevents dust, dirt and fluids from penetrating into the enclosure.

AVAILABLE OPTIONS

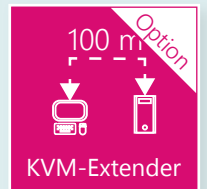
The **CLINIO 3 DISPLAY** can also be operated using an external power supply (available as an option). The power supply delivers the usual hospital dc voltage of 12 V.



With the optional base, the computer can also be positioned on any desk. The slim design leaves enough space for other work.



The **KVM EXTENDER** can be optionally integrated. The **CLINIO** is thus able to distribute images to PCs located at distances of up to 100 metres. Remote operation of these devices from the **CLINIO** is also possible.



The protective glass is installed flush with the front panel and offers IP65 protection. The rear side of the device is protected to IP54. If desired, an IP65 rating can be achieved for the entire device.



The **CLINIO 3 DISPLAY** comes with a standard two-year warranty with bring-in service. The warranty can be extended to up to five years with on-site service.



THE CLINIO 3 DISPLAY: AN OVERVIEW

SUPERB IMAGE QUALITY

The display quality of the **CLINIO 3 DISPLAY** is impressive: With a resolution of 1920 x 1200 pixels in 16:10 format, HD images can be displayed full screen. The monitor also achieves top values in contrast ratio (1000:1) and in brightness (300 cd/m²).

DURABLE COMPONENTS

Only robust and long-lasting industrial components are used for the **CLINIO 3 DISPLAY**. They are developed for demanding applications, as can be found in the automotive, transport and aviation sectors. These components are temperature-resistant and extremely well suited for 24/7 use.

FLEXIBLE AND CUSTOMISABLE

With its wide range of interfaces, the **CLINIO 3 DISPLAY** offers versatility and flexibility: The GPIO input enables remote control of the monitor, for example, using a foot-operated switch. With the optional KVM extender, images that are fed into the **CLINIO** can be forwarded to other stations via a LAN cable. Or a remotely located PC can be remotely controlled with the **CLINIO**.

FROM VGA TO 3G-SDI

Almost all image-producing devices can be connected via the inputs of the **CLINIO 3 DISPLAY**, as the **CLINIO** understands a great many signal formats on its inputs: from VGA, S-Video, CVBS and DVI through to HDMI. Even HD-SDI and 3G-SDI can be displayed using the optional 3G module.

VERSATILE USE

With its slim profile and fanless design, the **CLINIO 3 DISPLAY** makes an impression – not only on the wall or attached to a monitor arm, but also on any desk (using the optional base). The good display quality, low power consumption and compact design also make the **CLINIO** suitable for use on a mobile workstation (cart).



TECHNICAL SPECIFICATIONS

CLINIO 324D

CLINIO 327D

Application	Video monitor for viewing medical images and videos (not suitable for diagnostics)	
Display		
Display size	61 cm (24 inch) colour LCD TFT	68,6 cm (27 inch) colour LCD TFT
Brightness max.	300 cd/m ²	
Contrast ratio	1000:1	3000:1
Viewing angle	Horizontal: 178°/vertical: 178°	
Pixel resolution	1920 x 1200 (16:10)	1920 x 1080 (16:9)
Response time	14 ms Gray-to-Gray	12 ms (Typ.)
General device specifications		
Weight	Approx. 8 kg without base, with internal power supply; a higher weight is possible depending on configuration	Approx. 8,5 kg without base, with internal power supply; a higher weight is possible depending on configuration
Dimensions (HxWxD)	578 x 403 x 67 mm	647 x 405 x 67 mm
Power supply	Internal AC power supply, 90–250 V, 50/60 Hz External power supply optional	
Power consumption	Approx. 50 W	Approx. 55 W
VESA mounting	VESA 100 mm (two different mounting options)	
Warranty (bring-in)	24 months with bring-in service Optional warranty extensions on request	
Safety		
Protective glass	Protective glass with anti-reflective coating	
Disinfection	Closed enclosure allowing all-round wipe, see hygiene report	
Protection class	IP54, optional IP65	
Safety tests	CE, EN 60601-1, EN 60601-1-2	
Optional features		
Base	Solid base, colour RAL 9010 Fixed height, fixed tilt angle of 18°	
Wall brackets	Various wall brackets on request	
External power supply	12 V, 11.25 A, max. 135 watts, dimensions HxWxD: 99.0 x 180.0 x 52.0 mm, weight: 950 g	
KVM extender	Optionally integrated	

The CLINIO series was tested for its hygienic safety by the *Institute for Medical Microbiology* and an expert report was issued. The report certifies that the CLINIO can also be used in hygiene-critical areas, such as an operating room, for example. The expert report can be viewed here:



Possible PIP/POP combinations

MAIN / SUB	VGA	DVI	HDMI	S-VIDEO	CVBS	YPbPr/YCbCr	RGBS	3G / HD-SDI
VGA	×	•	•	•	•	•	•	•
DVI	•	×	×	•	•	•	•	•
HDMI	•	×	×	•	•	•	•	•
S-VIDEO	•	•	•	×	•	•	•	•
CVBS	•	•	•	×	×	•	•	•
YPbPr/YCbCr	•	•	•	•	•	×	×	•
RGBS	•	•	•	•	•	×	×	•
3G / HD-SDI [optional]	•	•	•	•	•	•	•	×

• = possible/x = not possible

More information on the technical details of the CLINIO 324D and our other products can be found on the Internet.



ALWAYS ON OUR MIND CUSTOMER AND MARKETS

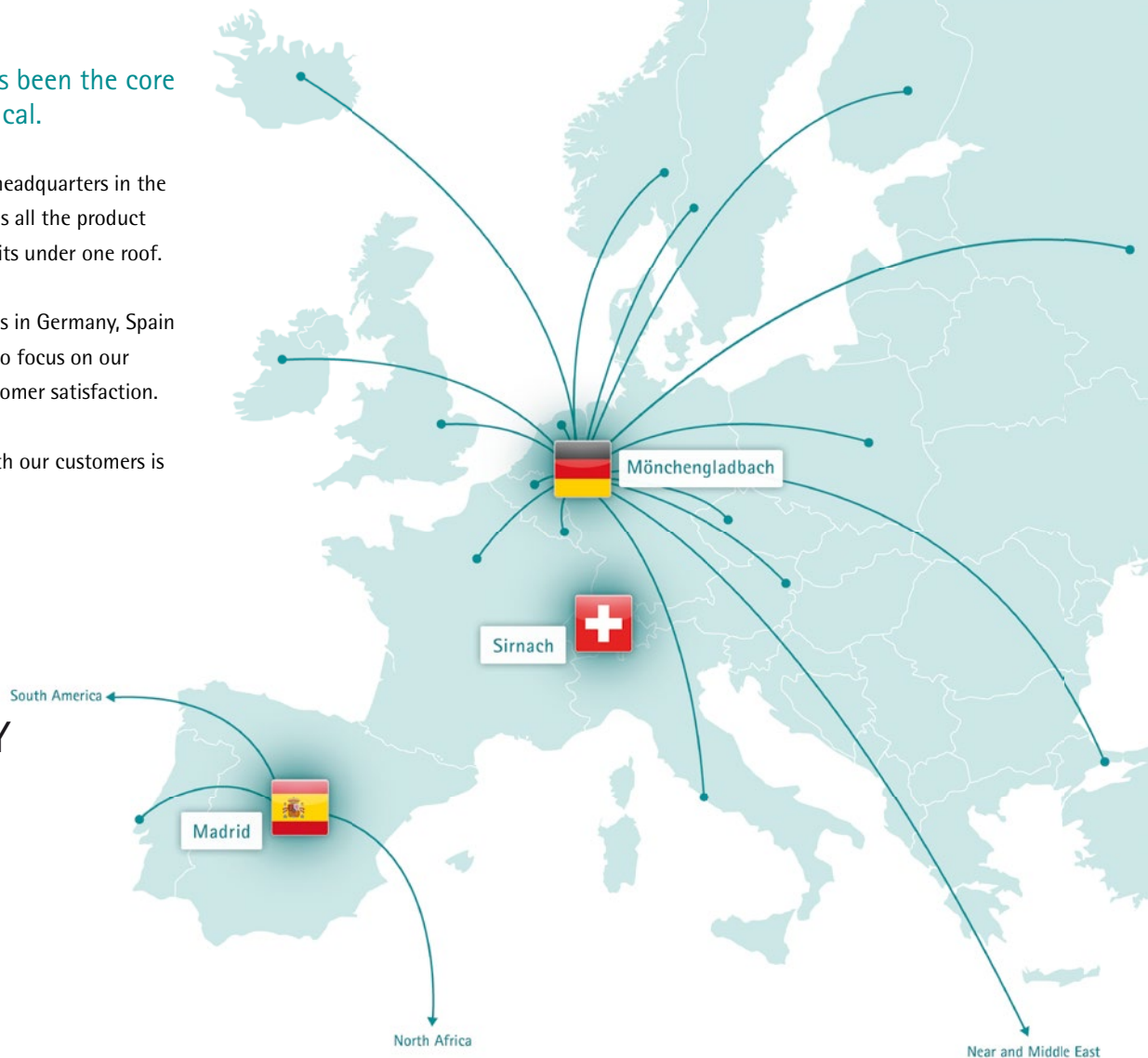
» Europe has always been the core market of Rein Medical.

The family business, with headquarters in the west of Germany, combines all the product strategy organisational units under one roof.

Our sales and service teams in Germany, Spain and Switzerland allow us to focus on our customers and ensure customer satisfaction.

Long term cooperation with our customers is our top priority.

 **MADE
IN
GERMANY**



rein medical

We make your eHealth come alive

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