VIEWMEDIC CLINIO 3 COMPUTER

- The All-In-One-PC in the medical field

- 22" & 24" Display with LED backlight

- Front IP65 protection

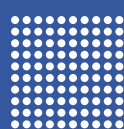- A variety of configuration options

CLINIO 3 – THE COMPUTER FOR

IP65

Protected

The protective glass is installed flush with the front panel. This safely protects the monitor against splashes and dust.

LED Backlight

The CLINIO 3 has a LED backlight. This means a homogenous illumination, a long life and lower power consumption.

Hygienic

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

Safe

The computer can also be operated with surgical gloves. This applies not only to the touchpad, but also to the optional touchscreen.

16:10

24"

The aspect ratio of 16:10 displays Full HD pictures that fill the screen and also offers space for additional controls on the desktop.

1920x1200

WUXGA+

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

Monitor x3

The CLINIO 3 COMPUTER has three monitor outputs (HDMI & DVI), meaning that it can display images on up to two additional screens.

Touchscreen

optional

When fitted with the optional touchscreen, the computer module can be conveniently controlled using the screen. This touchscreen also understands multi finger gestures.

SAFE, CLEAN AND CONVENIENT

The **VIEW**MEDIC CLINIO is a totally hygienic computer that has a fully planar front panel – with no drip edge or controls that protrude. Front IP65 protection enables easy wipe-down disinfection. The computer is nonetheless convenient to operate: Both the capacitive touchpad and the optional touchscreen can be operated with surgical gloves.

IP6
protec

VIEWMEDIC

STANDBY   RESET

SIMULTANEOUS CONNECTIONS TO THREE MONITORS

Every CLINIO COMPUTER has two HDMI outputs and one DVI output. This means that the images can be shown on up to two additional monitors. The display of the CLINIO can be cloned – in other words, all three monitors show the same content. Alternatively, the desktop is extended across the entire surface area. Every screen will have a desktop of up to 1920 x 1200 pixels.

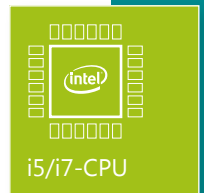# EVERYDAY USE IN THE MEDICAL FIELD

A PC THAT CAN BE CUSTOM CONFIGURED

The CLINIO 3 COMPUTER is a high-performance PC: In its basic configuration, it features an i5 processor, 4 GB of RAM and a huge 500 GB hard disk. This configuration is adequate for everyday applications in the medical field. However, every CLINIO is custom built to your requirements: Therefore, you may also choose an optional SSD drive, up to 16 GB of RAM or an i7 processor.
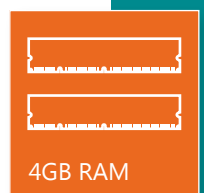
The computer module is equipped with an i5 CPU, which offers enough power for most applications. For particularly CPU-intensive applications, the PC is equipped with the optional i7 CPU.

i5/i7-CPU

The mainboard with the QM77 chipset offers native support for Blue-ray drives, as well as USB 3.0, AMT 8.0 and RAID support.

QM77

The standard configuration of 4 GB of RAM is fully adequate for most applications. However, the PC module can be delivered with up to 16 GB of RAM, depending on application and operating system.
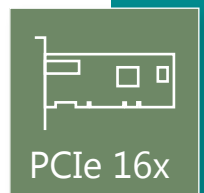
4GB RAM

The 500 GB hard disk generally provides sufficient storage space. Larger hard disks and SSD drives are optionally available.

500GB HDD

In addition to USB 2.0, the CLINIO 3 COMPUTER supports USB 3.0 with a data transfer rate of up to 500 Mbps.

USB 3.0

The PC module can be expanded via the PCI express 16x slot: If you want, we can integrate an optional frame grabber card, a 3D graphics card or other expansions for you.

PCIe 16x

The CLINIO 3 COMPUTER is delivered either without an operating system or with LINUX, Windows 7 or Windows 8.

Windows

The optional DVD drive is fully integrated in the housing, and can read and write to CDs and DVDs.

optional

Multidrive

All-In-One PC

16:10
24" [61 cm]

1920x1200
WUXGA+

IEC 60601-1
IEC 60601-1-2
Certified

VIEWMEDIC
CLINIO 324C

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LED Backlight

Closed Cooling

i5/i7-CPU

CLINIO 324 C

LIMITLESS EXPANSION

The **VIEW**MEDIC CLINIO 3 COMPUTER provides a full PCIe 16x expansion slot. This makes it possible to fulfil special requirements: A frame grabber card, 3D graphics card, KVM and much more can be additionally integrated. Data can be read from and written to optical disks using the almost invisible DVD drive.
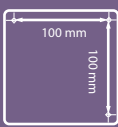
CERTIFIED AND FLEXIBLE

Closed Cooling

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

Quality

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

VESA 100

100 mm
100 mm

The VESA mounting holes (VESA 100) on the rear side enable wall mounting or attachment to a monitor arm.

RS232

The PC MODULE is fitted with two RS-232 serial interfaces. This enables remote control of devices via GPIO, for example, using foot-operated switches.

HDMI

HƏMI

The two HDMI outputs make it especially easy to connect external monitors to the CLINIO 3 COMPUTER.

DVI

The DVI output, like the HDMI sockets, enables the images to be output to external monitors.

Certified

IEC 60601-1
IEC 60601-1-2

Security certified according to the EN 60601-1 and EN 60601-1-2 standards

MPG class 1

The **VIEW**MEDIC CLINIO 3 COMPUTERS are class 1 medical devices.

IP54 PROTECTION ON THE REAR SIDE

The hygiene cover for the device's rear side enables IP54 protection – also when different cables must be fed through into the device. This is made possible through replaceable seals that guarantee optimal safety.

CERTIFIED DEVICE

The **VIEW**MEDIC CLINIO 3 SERIES has been tested according to the DIN EN 60601-1 and DIN EN 60601-1-2 international 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.

– PERFECT FOR RIS, HIS AND CO.

CUSTOM CONFIGURED

The CLINIO 3 SERIES can be custom configured according to your requirements: Whether you would prefer an i7 CPU, 16 GB of RAM, a touchscreen, base, WLAN, external power supply or electrical isolation for LAN or RS232 connections, the CLINIO covers all configuration requirements.

OPTIONS

The CLINIO 3 can be extended with a WLAN-module (IEEE 802.11b/g/n). This enables data transfer rates of up to 450 Mbps.

WLAN *optional*

Both the two RS-232 interfaces and the RJ-45 interfaces can be equipped with optocouplers, which provide 4 kV protection.

4kV protection *optional*

An external power supply is available for the CLINIO 3 SERIES. The power supply delivers the usual hospital dc voltage of 12 V.

Ext power supply *optional*

The rear side of the computer has IP54 protection with the rear cover.

IP54 Backside

The CLINIO 3 SERIES can be optionally fitted with up to 16 GB of RAM.

16GB RAM *optional*

With the optional base, the computer can also be positioned on any desk. It cuts a fine figure with its slim design.

Monitor stand *optional*

A barcode imager is also available as an optional accessory. It can be used to read in 1D barcodes (for example, EAN, UPC and IAN) and 2D barcodes, so-called QR codes.

Barcodereader *optional*

A smart card reader (which can be used to read patient and security cards, for example) is also available as an option.

Smartcard *optional*

RIS, HIS, PACS AND EPA

The CLINIO is a cost-efficient all-in-one computer for medical applications such as RIS, HIS, PACS and EPA. With its high-resolution screen, expansion possibilities and impressive performance, it fulfils all requirements for use in hospitals, doctor's surgeries and other medical institutions.

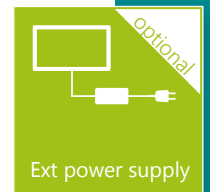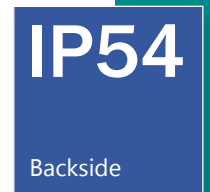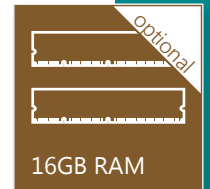# THE MEDICAL COMPUTER

SIMPLE AND SAFE OPERATION

The computer is switched to standby mode or is reset using the touch panel on the front side. Furthermore, the touchscreen or input modules can be temporarily disabled in order to safely clean the screen or keyboard, for example.

The touchpad of the CLINIO 3 series
with touch option

SAFE INDUSTRIAL COMPONENTS

Robust and long-lasting industrial components are used for the **VIEW**MEDIC 3 CLINIO. The mobile CPUs from Intel® are used.They were developed for high requirements as can be found in the automotive, transport and aviation sectors. These processors are more temperature-resistant than desktop CPUs and are extremely well suited for 24/7 use.
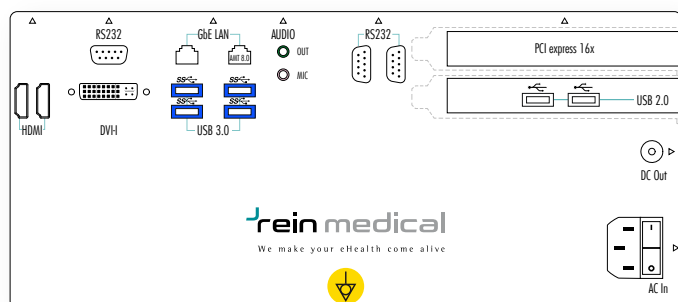
SLIM DESIGN

The new, slimmer design opens up even more areas of application for the CLINIO: With the optional base, it becomes a modern ALL-IN-ONE DESKTOP COMPUTER with impressive computing power. Wall mounting or attachment to a monitor arm is also possible using the VESA mounting holes on the rear side.

The CLINIO 324 C
with optional DVD drive

The rear panel of the CLINIO 324 C
with its expansion possibilities

LIMITLESS EXPANSION

The versatility of the CLINIO 3 COMPUTER is apparent if you take a look at its rear side: The computer is able to communicate with all components of the medical IT world via USB 3.0, RS232, GbE LAN, HDMI and DVI. The PCI express expansion slot guarantees maximum flexibility and investment security. The rear-side hygiene cover offers additional protection and adjusts to your cabling.

The CLINIO delivers multi capability in everyday medical use, and will find its place both on the doctor's desk and on the operating room wall. It provides sufficient power for all applications and has an impressive resolution of 1920 x 1200 pixels.

TECHNICAL SPECIFICATIONS

	CLINIO 322 C	CLINIO 324 C
Application	All-in-one computer; can be used for many applications such as RIS, HIS, PACS (not diagnostics), LIS and EPA	
PC module		
Chipset	Intel® QM77	
CPU	INTEL i5 3rd Generation/INTEL i7 3rd Generation [optional]	
Clock speed	max. 3.3 GHz	
RAM	4 GB DDR3 1600 MHz, expandable to 16 GB [optional]	
Hard disk (HDD)	1 x 500 GB S-ATA 300, 8 MB cache	
Network (LAN)	2 x Intel® GbE with Intel iAMT 8.0 support	
Ports	2 x RJ45 (LAN), 2 x RS-232 (optionally 4 x RS-232), 2 x USB 2.0, 4 x USB 3.0 [Tip: USB 2.0 is only available if the expansion slot is not used.]	
Expansion slot	1 x PCIe 16x for internal expansion cards, integration on request	
Graphics	Intel® Dual HD Graphics 4000, up to 1920 x 1200 pixels	
Audio	Realtek ALC 892HD	
Output for second display	2 x HDMI, 1 x DVI Up to three images can be displayed simultaneously.	
Display		
Display size	54.5 cm (21.5 inch) colour LCD TFT	61 cm (24 inch) colour LCD TFT
Brightness max.	250 cd/m^2	300 cd/m^2
Contrast ratio	1000:1	
Viewing angle	Horizontal: 178°/vertical: 178°	
Pixel resolution	1920 x 1080	1920 x 1200
Response time	8 ms grey to grey	14 ms AVR
General device data		
Weight	Max. 7,2 kg without base, with hygiene cover and internal power supply, without cables	Max. 9,6 kg without base, with hygiene cover and internal power supply, without cables
Dimensions (HxWxD)	342 x 527 x 76 mm	403 x 577 x 76 mm
Power supply	Internal AC power supply, 90–250 V, 50/60 Hz External power supply optional	
Power consumption	Max. 70 W under full load for CLINIO 324C-1	
VESA mounting	VESA 100 mm	
Warranty (bring-in)	24 months with bring-in service	
Safety		
Protective glass	Protective glass with anti-reflective coating	
Disinfection	Closed housing allowing all-round wipe	
Safety class	Front IP65, rear IP54 Without the rear-side hygiene cover: IP32	
Safety tests	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	
Electrical isolation	2 or 4 electrically isolated RS-232 ports (4 kV)	
Network isolator	RJ45 in/out, IEEE 802.3, dielectric strength 5 kV	
WLAN	Integrated IEEE802.11b/g/n WLAN module, up to 450 Mbps, three antennae (optimised with regard to hygiene) on the top	
RAM	Expandable to 16 GB RAM	
Touchscreen	Both Computer are available with optional PCT-Touchscreen Touchscreen recognizes two-finger gesture (pinch/zoom/etc.)	
DVD-Drive	DVD-Drive (DVD 8x, CD read 24x, DVDRW 8x, CDRW 24x) Alternative: Blu-ray-Drive (Blu-ray read 6x, DVD read 8x, CD read 24x, DVDRW bis 8x, CDRW bis 24x) This data are example values and subject zo change.	

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**

Quality Management
EN ISO 13485:2003
+ AC:2007
▶ Voluntary participation in regular monitoring

DEKRA Certification
DEKRA
certified

Mönchengladbach

Sirnach

South America

Madrid

North Africa

Near and Middle East

⌐rein medical

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