

CLINIO®

COMPUTERS, MONITORS & THIN CLIENTS
HYGIENIC & MEDICALLY CERTIFIED
INDIVIDUAL SOLUTIONS IN 22", 24", 27" AND 32"

THE CLINIO FAMILY AT A GLANCE



CLINIO ALL-IN-ONE PC

The CLINIO C is an All-in-One PC that is not only ideal for use with medical applications such as RIS, HIS, PACS, and EPA. With a wide range of options and high performance for computationally intensive applications, it meets all the requirements for use in hospitals, doctors' surgeries and other medical facilities. It is available with screen diagonals 22", 24" and 27". (p. 6-9)

CLINIO SLIM ALL-IN- ONE PC

The CLINIO S is the slim version of the All-in-One computer, making it the perfect alternative for the tightest spaces and workplaces. Thanks to its chip architecture, this CLINIO consumes significantly less power, yet its computing power is more than sufficient for most of the applications in daily hospital life. It is available with screen diagonals 22" and 24".

The CLINIO S is thus ideally suited as a Thin-Client system. We trust the nearly 20 years of experience that IGEL Technology GmbH has with its Linux-based IGEL OS, the next-gen edge operating system for cloud workspaces in virtual environments. (p. 10-11)

CLINIO MONITOR

The design of the CLINIO monitor makes an impression - and not just on the wall: The CLINIO is particularly impressive on surgical swivel and spring arms. With the optional stand, it can be used at any workplace. It is available with screen diagonals 27" and 32". Its greatest advantage, however, is the variability of the input formats and the brilliant picture display. (p. 12-13)

Made in Germany: Safe & reliable

The CLINIO series is a German success story, as these units have been designed and manufactured in Germany for over a decade. This guarantees the highest quality and flexibility. Only hardware for industrial use, featuring long availability and particularly high fail-safety, is used in the CLINIO. As a result, we offer an optional warranty extension of up to five years for our devices.

Internal power supply unit

All CLINIOs have an internal power supply unit. This enables simple installations, e.g. in the operating theater on a ceiling arm. If desired, the CLINIO can serve as a power source for other components. An external power supply unit is also available as an option, allowing it to be operated with an external voltage source.



Illustration of a CLINIO 32" UHD (COMMAND BAR depending on controller)



Certified medical device

The CLINIO is a Class 1 medical device. All units of this series are tested according to the international standards IEC 60601-1 and IEC 60601-1-2. This allows operators to easily and safely combine our CLINIOs with medical systems in near-patient environment.



Safe operation

Not just the front of the CLINIO but the entire housing is free of niches and edges where germs could settle. The monitors and All-in-One PCs are operated via the COMMAND BAR, a touch field on the front of the unit that can be operated safely and comfortably even with surgical gloves.

The CLINIO All-In-One PC is switched to standby mode or reset via the COMMAND BAR. Additionally, the optional touch screen and COMMAND BAR can be temporarily disabled to clean the screen.

HYGIENIC & SAFE

Hygienic design

The CLINIO is closed all around and can be operated via an optional touch-sensitive panel. The result: a flat, easy-to-clean and disinfect surface. The optionally IP65-protected housing is resistant to commercially available cleaning agents and disinfectants. The surface is coated with a germicidal powder coating (POLYFLEX® STERIDUR II coating), which provides additional safety and enables easy wipe disinfection. The closed housing prevents air exchange with the environment and thus reduces the risk of germs being deposited and stirred up.



CLINIO

ALL-IN-ONE PC



Three sizes - unlimited possibilities

All models of the CLINIO C (available in the sizes 22", 24" and 27") can be mounted on ceiling and spring arms by means of a VESA device and are thus equally suitable for wall mounting and for mobile carts. With the optional stand, they can also be placed on the desk.

Efficient & Individual

The CLINIO All-in-One PC features impressively powerful components such as the high-quality Active Matrix LCD TFT panel and Intel® Q670 Express chipset. The CLINIO is continuously adapted and further developed to the requirements of the users. For example, when a new generation of i5/i7 CPUs from INTEL® is released, it is extensively tested in our laboratory and then incorporated into current production as part of a model update.



Flexible

Each CLINIO computer has two DisplayPorts, allowing images to be displayed on two additional monitors. If desired, the CLINIO display can be cloned, i.e. all three monitors display the same content. Alternatively, the desktop is extended to cover the entire surface.

Limitless expandability

The CLINIO computer optionally provides a full PCIe x16 slot for expansion. Frame grabber cards or other system extensions can thus be easily integrated. Behind the hygiene cover, the CLINIO computer showcases its connectivity: With USB 3.X, RS232, GPIO, audio, GbE LAN, DisplayPort*, HDMI* and DVI*, the PC communicates with all components of the medical IT world.

* Depending on equipment

OPTIONS IN ABUNDANCE

A barcode reader is available as an optional accessory. Both 1D barcodes (e.g. EAN, UPC, and IAN) and 2D barcodes, so-called QR codes, can be read.

Beyond the standard configuration

There is no standard CLINIO! Every CLINIO computer is optimally adapted to your needs. This applies not only to the operating system, CPU, RAM or hard disk size: With a total of more than 20 options - including touch screen, monitor stand, WLAN, external power supply and galvanic isolation - a wide range of configuration preferences are catered for.



The CLINIO computer is used wherever serviceability and hygiene are important, for instance here in the Helios Amper Hospital in Dachau. The hospital relies on Rein Medical for the modernization and expansion of four operating theaters.



View of an operating theater for vascular surgery: The 62 square metre theater is state of the art. A highlight is the advanced image and video management system. © Helios

CLINIO SLIM

ALL-IN-ONE PC

Safe, efficient, economical

The CLINIO S All-in-One PC is optionally available with Microsoft Windows or IGEL OS operating system. It is available in 22" and 24" diagonals, can be mounted on ceiling and spring arms by means of a VESA device and is thus equally suitable for wall mounting. The low power consumption makes it ideal for use on battery-powered mobile carts. (DC version optional) In addition to its smaller dimensions, the choice of power-saving components deserves special mention. They make the power consumption approx. 60% lower and even up to 75% lower when operating as a ThinClient. (Compared with CLINIO 624C in each case in full configuration under full load). Nevertheless, the computing power of the CLINIO S All-in-One PCs is more than sufficient for most applications used in daily hospital life, and it can also be individually configured.

UMS - Universal Management Suite

The simple yet efficient user interface of the UMS enables even non-experts to easily control and manage environments, whether they consist of 20 or 20,000 units. UMS not only makes end-user computing highly scalable and easy to use, but also offers simple cloud-based endpoint software licensing, allowing licenses to be ported between any compatible device.

More information is available at <https://www.igel.de/>

Loads of reasons for IGEL

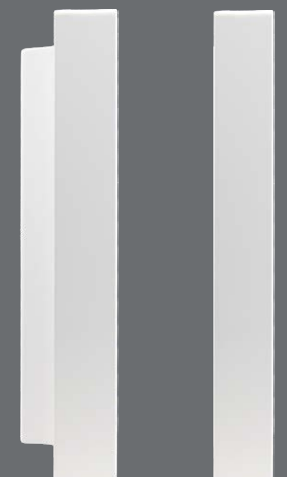
Rein Medical integrates the technology of IGEL Technology GmbH. IGEL OS supports a wide range of remote display protocols and offers technology integrations with over 100 partners. The Next-Gen Edge OS was developed specifically for accessing virtual environments in companies. It is based on a highly secure Linux distribution that provides protection against malware and is adapted for the CLINIO S and 100% compatible. IGEL makes security easier. When you move Windows to the cloud - with technologies from providers such as Citrix, VMware, AWS and Microsoft - you already increase security because applications and data no longer reside on the endpoint. With the CLINIO S you get a fully functional, read-only endpoint for cloud workspaces. At the same time, IGEL ensures a secure chain of trust from the user to the applications and workloads hosted in the cloud.



CLINIO S Green IT



From the front, CLINIO C and CLINIO S are identical, but from the side there is a clear difference. Where the CLINIO C scores with pure performance, the CLINIO S is set for maximum efficiency.



MONITOR

Always the right monitor

The CLINIO monitor is versatile and variable, always adapting to the requirements. With screen diagonals of 27" and 32" in Full HD and UHD, numerous connection options (e.g. VGA, HDMI, DVI, DisplayPort 1.2, 3G-HD-SDI) and further equipment options (signal extender, Loop Through, PIP/POP, etc.), the CLINIO is at home in every possible scenario.

Grayscale correction according to DICOM

The sensitivity of the human eye does not follow a linear function: To compensate for these peculiarities, the CLINIO monitors have correction according to DICOM Part 14 GSDF. What's more, they represent different color spaces (BT.709, BT.1886 and BT.2020) to avoid color shifts and misrepresentations.

Optimum color rendition

The brilliant picture quality and constant color reproduction is ensured by factory calibration. In addition, the reference calibration offers the option of copying the image impression of an external monitor onto our CLINIO. Learn more about calibration here:



The Maria Hilf Hospital in Mönchengladbach relied on the monitors of the CLINIO family for its modernization. The CLINIO is perfectly adapted for use with SMART OR and OPERION. Rein Medical thus offers optimal OR integration from a single source.

Automatic brightness stabilization

ALS (automatic luminance stabilization) eliminates the backlighting fluctuations that may occur, for example, during the warm-up phase or due to temperature changes. It also compensates for the runtime-related decrease in the backlight. This guarantees optimal, bright images even after many years.



CLINIO FAMILY

Overview

- aluminium housing
- hygienic design
- certified medical device
- germicidal surface coating
- VESA compatible
- closed cooling
- optionally galvanically decoupled
- integrated power supply unit

Take advantage of our consulting expertise:
We will find the ideal CLINIO for you!

The hygienic flap and the various cable seals prevent dust, dirt and liquids from entering the housing



CLINIO All-in-One Computer

- Medical All-in-One PC in 22", 24" und 27"
- 22" Full HD, 24" WUXGA and 27" Full HD
- IP65 protection front
- Intel i5 oder i7 CPU
- Up to 64GB DDR4 SDRAM
- 512 GB M.2 NVMe/PCI SSD 3D TLC NAND (optionally other capacities or technologies)
- WLAN
- Optional: Multi-Touch, Barcode Reader and RFID

CLINIO SLIM All-in-One Computer

- Medical All-in-One PC in 22" Full HD and 24" WUXGA
- Microsoft Windows or Igel IGEL OS operating system optionally pre-installed
- IP65 protection front
- Intel® Pentium® Silver J5005 (QC @2.8GHz) Max. 10W TDP
- 16GB/120GB ThinClient/AIO PC
- 120 GB m.2 SATA 3.1 SSD 3D TLC NAND (optionally other capacities or technologies)
- Multi-Touch (optional)
- More options: Barcode reader, RFID and WLAN



CLINIO monitor

- 27" and 32" medical monitor (full HD or UHD)
- IP65 protection front
- Factory calibrated with reference calibration option
- Color spaces BT.709, BT.1886 and BT2020 and grayscale correction via DICOM Part 14
- Connection diversity (DVI-D, VGA, DP, HDMI, RS232 and optional 3G/HD-SDI)
- Remote control via GPIO and RS232
- Touchscreen (optional)

Who are we?

At Rein Medical, we drive innovation. Our German company with a team of 100 employees has been involved in medical IT for more than three decades. Nowadays, we're a system service provider that implements customized IT solutions from planning to handover from a single source. We also accelerate the digital transformation in practices, clinics and other medical facilities. We develop and produce individual all-in-one computer solutions, high-resolution displays, customized IT wall modules for operating rooms as well as video/audio and image management systems. Rein Medical has been part of the JVC Kenwood Corporation since March 2018 and is a globally active company.

Quality through the international standard ISO 13485

Rein Medical is the proud holder of ISO 13485 certification, which demonstrates our high-quality standards and commitment to continuous improvement in quality management systems. The successful certification confirms our commitment to providing our customers with the highest quality products and services. We are proud to be able to back this up with a certified QM system.

Future „Made in Germany“

We stand for quality and set a hygienic benchmark with our certified IT. From the design, development and production of our hardware to the programming of our software, we realize our IT solutions at the Mönchengladbach site. With our worldwide partnerships, we offer innovative holistic solutions for an optimized workflow, ensuring smooth and reliable processes in the operating room.

Headquarters in Germany

Rein Medical GmbH
Monforts Quartier 23
41238 Mönchengladbach
Deutschland
Tel.: +49 2161 6984-0
Fax: +49 2161 6984-259
E-mail: info@reinmedical.com

Switzerland

Rein Medical AG
Büfelderstrasse 1
8370 Sirmach TG
Schweiz
Tel.: +41 71 929-55-99
Fax: +41 71 929-55-90
E-mail: info.ch@reinmedical.com

Spain

Rein Medical Systems S.A.
C/ Téllez, 30
1ª Planta, Oficina 1 Puerta 2
28007 Madrid, Spain
Tel.: +34 91 530-88-24
Fax: +34 91 574-32-93
E-mail: info.es@reinmedical.com

