Value for Hospitals and Clinics

Simplified Operations

The integrated touchscreen directly shows all waiting studies, sorted by patient, coming from any connected DICOM source in your hospital. With a touch of a finger, you can select which study you want to store on a USB device.

With the high-performance hardware you can create USB-Sticks with common data, approx. 500 MB, in less than 30 sec. This allows you to create media on the spot, whenever a patient shows up at your front desk.

Security

The Rimage USB-Sticks for the RX400 MedX have special security features and are the only USB-Sticks you can use in the RX400 MedX. Each stick will be WORM (write once, read many) protected, disabling the possibility for patients to add any other files that may contain malware, viruses, or any other threats. Only with the RX400 MedX you are able to unlock the WORM protection, adding new studies, and re-enable WORM afterwards. This guarantees a total internal IT-Environment protection.

With the integrated, adhesive paper thermal printer you can easily label the USB-Sticks, ensuring you are handing the right stick to the right person. The dedicated patient labels are automatically created once you unplug a recorded and verified USB-Stick.

Alternative Positioning

With its small footprint of only 40 x 25 cm, the RX400 MedX is designed to be either directly on the front desk or can be easily mounted to any wall in your hospital – enabling the patient to download data directly if the patient already has a Rimage USB-Stick with previous studies.

Reliable Workflow

Without any moving and mechanical parts, the RX400 MedX is very service friendly. Most of the parts are easily swappable and readily accessible by opening the cover.

With the easily accessible SSD, containing the OS and your local data, you can even request an exchange unit if required and just use the existing SSD in the new unit. In this case, your sensitive data will never leave your environment.

Value for System Integrators

Dedicated Support

The Rimage worldwide service organization has dedicated applications engineers to provide support during all stages of system integration.

Easy Integration

The RX400 MedX API enables easy integration for DICOM SW providers. RX400 MedX is already fully integrated into several DICOM patient CD/USB Solutions.

USB Technology

Allows Integrators to easily output on a new media source besides the Rimage optical systems.

Value for Patients

Reliable Records

Having the option of reusing your USB Media, you can keep track of all your medical data on a single source. This also allows doctors to see the entire patient's history, which helps them to better diagnose any .

Shorter Wait Times

RX400 MedX will provide a USB-Stick with a typical study in about 30 seconds, so patients never have to wait for their personalized USB-Sticks.

Data Privacy and Security

With the RX400 MedX we are adding a new layer of security for patient records on physical data. Your personal medical data can be encrypted and in case of a loss, it will be nearly impossible to access your sensitive patient data and records. This feature needs to be supported by your DICOM Software.

DiCOM Data Import

The Rimage RX400 MedX also allows you to import existing DICOM Studies from other USB-Sticks or from CD/DVD ROM (optional). To protect your network from potential security risks, the RX400 MedX will store the imported data into a secure isolated workspace.

This workspace is virtually capsulated from the entire network and can be configured to your needs for safety and security checks. Only verified data can be pulled on request, so you don't have to worry about your network security. The imported data can either be transferred to a new USB-Stick or can be imported into the PACS.

This feature will be added after product launch and will be available as an optional feature in 2022.

System Specifications

	Rimage RX400 MedX
RAM/HDD	16 GB RAM, 480 GB SSD
Number of Recorders	4
Optional HDD	Removable SSD waith up to 8 TB
Display	10,1 Zoll Touch Display, 1280 x 600 px
Network Adapters	Two 1 GB Ethernet
Printer	Thermal Label Printer
Label	Paper labels, adhesive, 54x25 mm
Height	6,2 in/ 158 mm (back), 3,2 in/ 82 mm (front)
Width	16 in / 406 mm
Depth*	9,6 in / 244 mm
Weight	8,8 ibs/ 4 kg
Power Specifications	100 - 240V™, 4-2A 60-50H
Noise Level	Neutral: 40dBA/ Full Load: 52dBA
Warranty	12 months

In Cooperation With

X NET

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RIMAGE® RX400 MedX

RIMAGE®

RX400 MedX

The Medical USB Solution - fast, easy & secure

The RX400 MedX has been developed by X-Net Services GmbH, Rimage Europe GmbH and in cooperation with solution providers for electronic data archiving and exchange. It is a compact, high-performance system for delivering studies to patients on a state of the art USB medium. Studies can be saved in full resolution with just a finger touch.

The RX400 MedX is very easy to set up and brings a lot of benefits for system integrators, health care providers, hospitals and patients.

Functionality

The RX400 MedX is a compact, fully integrated desktop device including integrated PC, 4 front USB ports, label printer and touch screen. The system is integrated into your existing workflows like a DICOM printer. Patient sticks are produced as easy as you know it from patient CDs.

All orders are available for selection in a clear list on the 10.1" touch display. If a patient wants to collect the stick, simply select the name from the order list by touch and the system immediately starts copying the data to one of 4 empty sticks. Due to the high USB speed, this only takes a few seconds. The stick is then automatically write-protected so it can be used safely and computer viruses don't stand a chance. The integrated printer prints the patient label as soon as the finished stick is unplugged.

The patient CD has been established for many years, but now has some disadvantages.

• Limited storage space
• Current PCs often do not have a CD drive anymore
• Opening the data is relatively slow
• A new CD is needed for each new examination

Patient portals are currently on the rise, but also have disadvantages.

• Data is usually only "online" for a few weeks
• Data is often only provided in low resolution
• Fast Internet access is required to open them
• They are difficult to use for older people

The Rimage USB Stick is a useful addition to the two established solutions

• It offers enough capacity even for large in full diagnostic quality resolution
• Files and Studies can be opened extremly fast
• Phisicians CAN have the enite medical history on a single source with our Rimage USB-Sticks*
• Patients have the documents on a compact and easy-to-use data carrier.
• Chronically ill patients have all documents on one stick instead of on various CDs or portals.
• Permant usage of the USB Stick as new studies can be added multiple times (optional)*

RIMAGE® RX400 MedX

What needs a Patient USB-Stick to be successful?

There are a few attributes a patient USB-Stick needs to provide to be successful in the market. One of the biggest is security. But this attribute does not only count for the data on the stick, this is also important for the user as well as the refering doctors who will need to access the data.

With the Rimage patient stick we guarantee data security with unalterable data. This is archieved by WORM procedure. With "Write Once, Read Many" patients can not modify any data on the Rimage patient USB-Stick. This provides full security against virus and malware, as the sticks can only be written by the RX400 MedX system. Other USB-Ports can only read but not write any data on Rimage patient USB-Sticks.

With our Top Line Stick, the Rimage system will be able to add more data to your existing data and protect the USB-Stick afterwards with a new WORM procedure. Here are some further advantages a Rimage Patient USB-Stick provides you:

Security: Every USB Stick is write protected (WORM) and can be individually encrypted.

Multiple Use: The RX400 MedX can exclusively open a WORM stick and add new studies.

Affordable Price: The Stick is a one-time invest and can be used many years and with all kinds of patient data. This way it saves costs and the environment by adding additional studies to the stick.

Printed Patient-Info: The RX400 MedX automatically creates individual labels per USB-Stick.

Simple & Fast Production: Recording typical DICOM studies only takes only 20-30 seconds. Jobs can be selected automatically or by selecting the patient's name on the touch screen.

High Performance: High quality sticks and the system design allow parallel production of up to 4 USB Sticks. This results in a throughput that can be several times higher than a CD Robot.

Fast Study Opening: The read performance of a Rimage Stick is multiple times higher than from a CD or an online Portal. This allows to open high-resolution Studies in seconds.

Areas of application

Due to its high memory capacity and high speed, the Rimage RX400 MedX is suitable for many areas of application, such as:

• Radiology as a replacement for the classic patient CD and for modern data-intensive procedures

I• n pathology or mammography for high resolution images

I• n pregnancy care for records of the complete child development

• Everywhere where high-resolution images or videos are created for which CDs and patent portals are of limited use.

Rimage Patient USB-Sticks

To provide you the best USB stick in value for money, we created two Patient USB sticks - one for a single time use and one for multi use. In order to ensure a closed and secure enviroment, we are limiting the USB sticks that can be used with the RX400 MedX to avoid any threats (virus, malware, ...) from unknown media.

Top Line Patient USB-Stick

Our **Top Line Patient USB-Sticks** can be used multiple times, as our Rimage RX400 MedX systems, and only those, can reopen the patient USB Stick to add further data to it, before they protect the patient USB stick again. With this, you can collect all of our medical data to a single stick, which helps doctors to see the progress the patient made or evaluate any potential risks based on previous diseases.

USB Version: 3.1
MultiWORM Feature
Connector: USB A
Max Read/Write Speed: 400/200 MB/s
Sequential read/write: 40/30MBs
Data Retention Time: up to 10 years
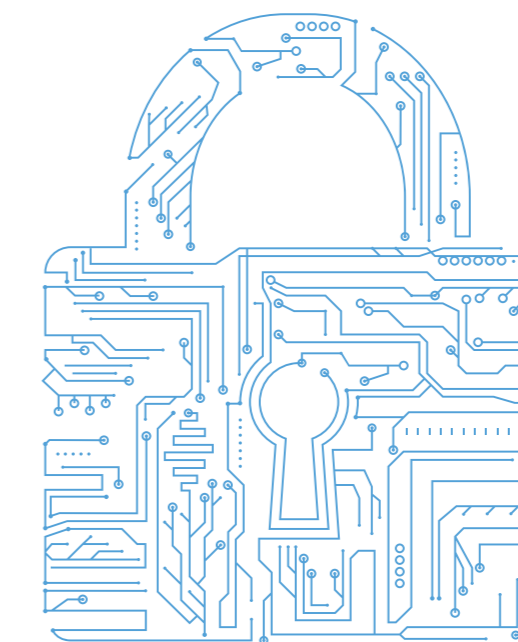Capacity: 16GB or 64GB

Base LIne Patient USB-Stick

The **BaseLine Patient USB-Stick** can only be written once. This stick is build for single time use and comes with a 3 year data retention time. Key specifications are:

USB Version: 2.0
SingleWORM Feature
Connector: USB A
Max Read/Write Speed: 200/100 MB/s
Sequential read/write: 25/8 MBs
Data Retention Time: up to 3 years
Capacity: 16GB

State of the Art Software

Multiple interfaces (JSON, REST API)
Supports writing directory structures or image to the devices (USB, SSD, SD, ...)
Verification (data integrity can be checked after writing)
User friendly web interface with support for all device sizes (pc, tablet, mobile phone)
Orders can be created with the easy to use web order creator or using our json order format
Extremely customizable orders via our advanced json order format (e.g.partitioning, file system, data from multiple sources)
REST API for status of system components and orders
Based completely on open source software
Linux operating system (Ubuntu)
Implemented in python
Installation and support can be done completely remote

Detailed Job View
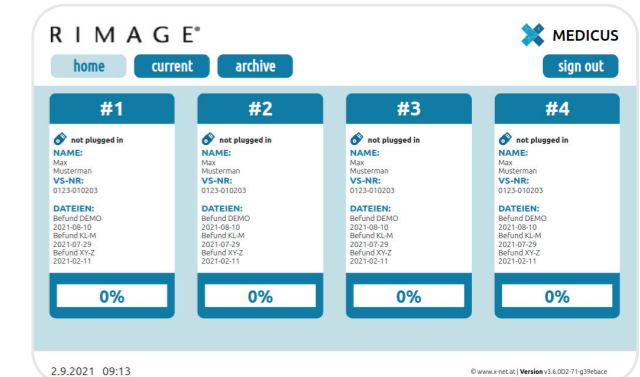

Full Job List

Do you know WORM?

After recording the data requested, the Rimage RX400 MedX will send a command to the USB controller of the device, locking it on a hardware level.

This will prevent all further attempts to write, modify or erase data on the device. Being locked at the hardware controller level means typical bypasses, such as formatting the device, will not work.
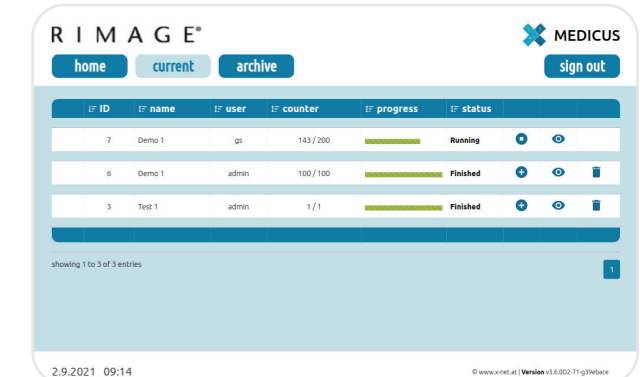
Using alternate Operating Systems to access the device will not bypass the WORM protection either.

Using Rimage Patient USB-Sticks ensures that the medical data is well protected and the risk of catching a computer virus or malware is very limited.

Archive

RIMAGE® RX400 Med X