Max 2M™

MRI contrast media injector

Contrast-enhanced mammography

ulrich medical

dedicated to you.

Key new functions
Your workflow has never been easier

Contrast-enhanced mammography

Fast operation
Patient-side injection start directly on the injector.

Space-saving
Compact device base ensures sufficient space in the mammography room.

Reproducibility
Using a contrast media injector provides a reproducible and continuous flow of contrast media

Improved image quality
CM bolus is administered accurately, which then increases the quality of the imaging.

Flexibility
Cordless device concept for free and flexible positioning of the injector in the mammography room.

Keep-Vein-Open

— Quick and easy access to the KVO protocol
— The KVO protocol can be selected via the program list (fixed protocol) on the touch terminal
— KVO can be selected directly via the main menu on the injector display
— "Pause time" can be set from 15-75 s; injection: 0.3 ml with a flow of 0.3 ml/s per set pause time
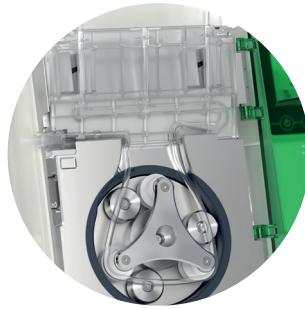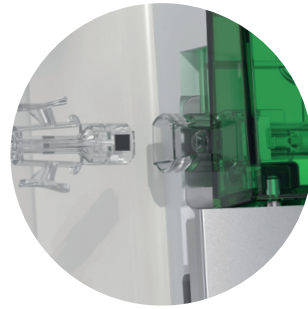
NEW
Expanded
KVO functions

Hardware Features

*User-friendly.
Simple. Efficient.*

Set-up made easy
— Insert Easy-Click-
  Cassette (Click-Click)
— Connect patient tubing
— Attach media
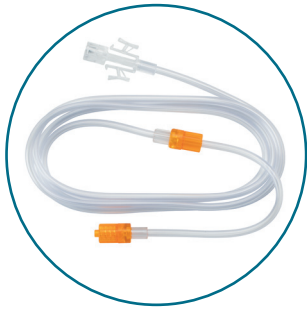 containers
— Done!

**Patient tubing changeover
in seconds**
— Detach patient tubing
— Connect new patient
  tubing
— Done!

**Powerful touch terminal
for convenient working**
— Wireless connection to
  injector
— Fast and uninterrupted
  connection via WLAN

Innovative technology made in Germany

Patient tubing
— Patient-side Luer lock connector
— Two check valves

Media connection points
— Two media connection points for standard media containers
— Status display

Injector display
— Intuitive and simple user interface
— Touch display directly on the injector

Easy-Click-Cassette
— 24 h use
— Air and particle filters
— Connector with touch protection (SafeConnect)

Cordless operation
— Cordless operation
— 24 h battery output
— Lithium ion battery

Max™ 2M
ulrich**easy**INJECT

Reliability and precision.
For over 110 years.

Simple to use
— Set-up just once daily
— Rapid patient changeover
— Optimal contrast media management

Hygiene & patient safety
— Closed system
— Direct injection from the original media containers
— SafeConnect with touch protection
— Unique, automatic, patient-side air detectors protect against air injection
— Easy-Click-Cassette approved for 24-hour use[1]
— Reliable protection against retrograde contamination[2]

Cost-effective and efficient
— Low cost of disposables
— Optimized contrast media management
— Ideal for high patient throughput

Individual all-round service and support
— Extensive network of highly qualified service engineers
— Expert staff training and on-site application support
— Telephone support and assistance
— Tailored service contracts
— Fast repair and loan unit service
— Regular technical safety checks

[1] Source: GLP-compliant study: "Microbiological Contamination Control Study of the ulricheasy INJECT Max 3 System", Report 12046467, dated: February 28, 2018, author: UL International GmbH (Grenzenstr. 13, 88416 Ochsenhausen, Germany); study is unpublished, but available on request with nondisclosure agreement.
[2] Source: GLP-compliant study: "Virological evaluation of Retrograde Contamination Potential at the Pump Tubing Set (XD 8003) and the Patient Tubing Set (XD 2035) of the CT motion (XD 8000)", Report 10874251 2.1, dated: November 12, 2015, author: UL International GmbH (Grenzenstr. 13, 88416 Ochsenhausen, Germany); study is unpublished, but available on request with nondisclosure agreement. The results of the non-clinical investigation mentioned are applicable to the ulricheasyINJECT systems Max 3 and Max 2M as the physical barrier with respect to possible retrograde contamination is implemented in all of the systems by means of structurally identical two check valves.

Technical data

Dimensions (L×W×H)	530 mm × 530 mm × 1,372 mm
Weight	Approx. 40 kg
Power supply	Battery
Voltage supply (battery charging)	Voltage rating 100-240 VAC / 50/60 Hz
Media transport	Roll pump
Flow rate	0.1 to 10 ml/s, in increments of 0.1 ml/s (MRI) 0.1 to 4 ml/s, in increments of 0.1 ml/s (contrast-enhanced mammography)
Maximum injection volume	400 ml/patient 1 ml – 10 ml, in increments of 0.1 ml > 10 ml – 100 ml, in increments of 0.5 ml > 100 ml – 400 ml, in increments of 1 ml
Reservoir capacity	Contrast media max. 1 × 200 ml (MRI), max. 1 × 250 ml (contrast-enhanced mammography) NaCl: max. 1 × 1,000 ml or max. 1 × 2,000 ml with a bag and optional media rod
Adjustable pressure limit	2-14 bar in increments of 0.1 bar (29-203 psi in increments of 1 psi)
Air monitoring	3 detectors for the media supply tubing 1 detector for the Easy-Click-Cassette and patient tubing
Pressure monitoring	1 pressure sensor
User interfaces	Terminal: 12" color TFT touch screen Injector: 4" color TFT touch screen
Data import and export	USB interface
Data transfer from injector to terminal	WLAN (802.11 b/g/n)
Quantity of boli (phases) per injection program	40 max.
Quantity of injection programs that can be saved	200 max.
Pressure curve	Real-time display of the injection pressure curve
Software functions (standard)	Display of remaining quantity NaCl backup Manual pause, time-controlled pause Timer Elapsed time Keep Vein Open (KVO)
Software options	Vein-check Same patient: Multiple injections per patient
Injector accessories	Convenience package: Media rod, waste bin and tray
Disposables	Patient tubing 2.5 m or 3.2 m Easy-Click-Cassette with holder s or holder l Adapter ring for small bottles

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