



MMM Group



Uniclean[®] PLE 3

Washer-disinfector for reprocessing
up to 3 flexible endoscopes.

MMM. Protecting human health.

Safe and fast

Endoscope reprocessing

Automatic reprocessing of the highest standard of different types of flexible endoscopes from different manufacturers, packaged in a service-friendly and user-friendly complete concept:

The Uniclean® PLE 3 washer-disinfector meets all quality-related requirements and complies with the latest standards (such as the standards series DIN EN ISO 15883 Parts 1 and 4) and guidelines that authorize, among other things, use of the CE mark according to MDR 2017/745 EU.

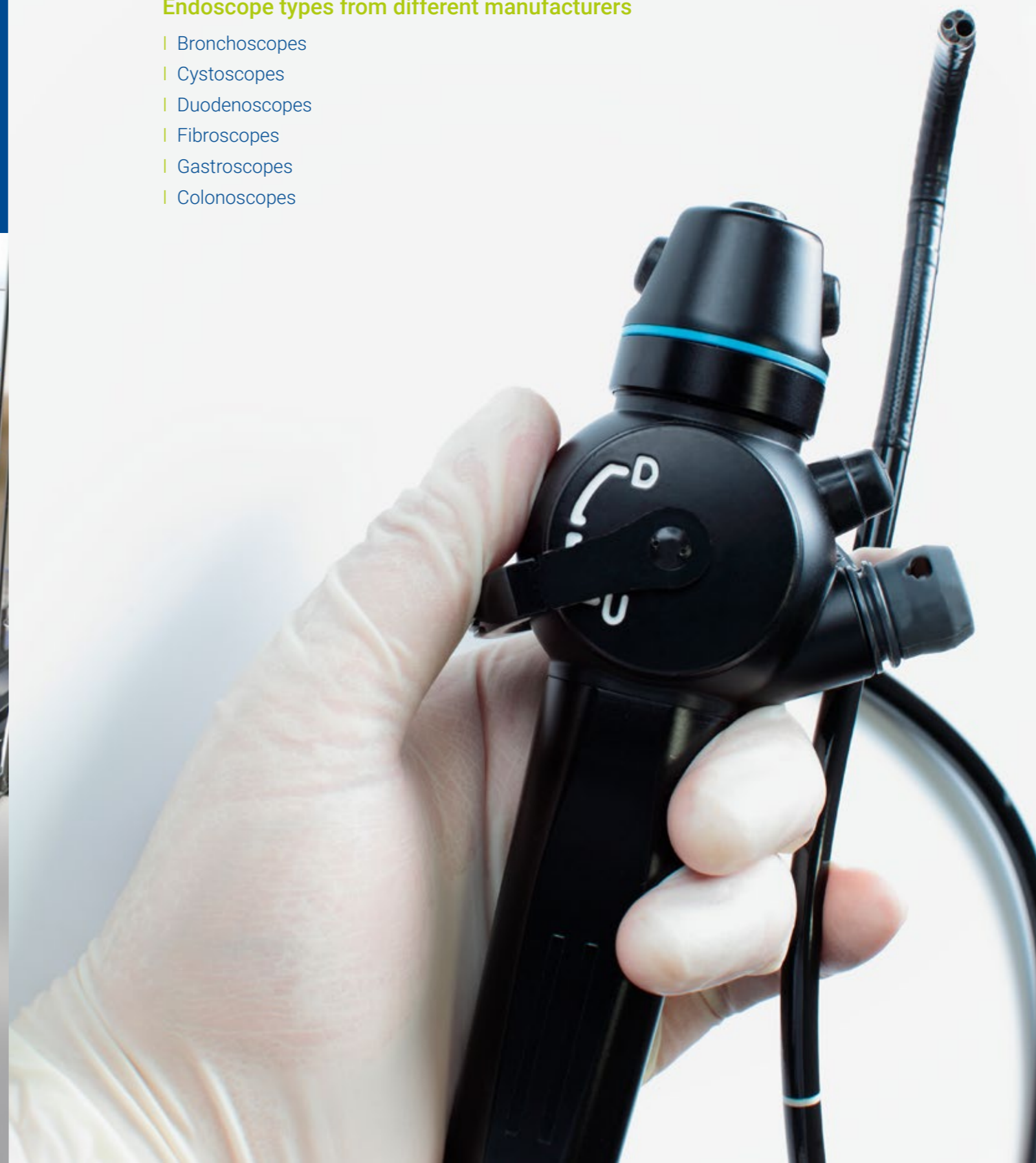


Purpose

Designed for the automated cleaning and disinfection of the re-usable, flexible, thermolabile endoscopes listed below.

Endoscope types from different manufacturers

- | Bronchoscopes
- | Cystoscopes
- | Duodenoscopes
- | Fibrosopes
- | Gastrosopes
- | Colonoscopes



Uniclean® PLE 3

The Uniclean® PLE 3 washer-disinfector is designed for the automated cleaning and disinfection of reusable, flexible, thermolabile endoscopes.

Highlights

- | Automatic and continuous leak test
- | Low water consumption and short cycle times
- | "Halo" LED control panel with 10" MMM Smart HMI
- | Fine filter to protect the channel monitoring
- | Final rinse either via tank or sterile filter
- | Easy-to-service complete concept
- | Disinfectant: peracetic acid or glutaraldehyde
- | Insert racks compatible with the EDScab® 8H storage cabinet

Standard features

- | Double-door, pass through version with hinged doors
- | Capacity for 2 or optionally 3 endoscopes
- | Chamber material: 316L
- | Automatic leak test before program start
- | Monitoring system for up to 7 channels with flow measurement plus leak test
- | RFID-based endoscope and user identification
- | Indication of machine status through 3-color chamber and panel lighting
- | Integrated external drying (optional)
- | Automatic monitoring of the most important process parameters
- | Rotating nozzles in the chamber for external cleaning
- | Maintenance access from the front
- | Thermal self-disinfection program
- | Channel drying using sterile compressed air
- | 2 dosing pumps with flow meter (maximum 3, optional)
- | Telescopic drawers for controller and cleaning agent
- | Main control cabinet with pivoting frame
- | RFID identification of cleaning agent container (optional)

Technical data

Endoscope capacity	2-door	Usable chamber dimensions in mm (H x W x D)	Usable chamber capacity	External machine dimensions in mm (H x W x D)
3	✓	594 x 684 x 559	227 liters	1,990 x 1,000 x 660*

* 740 incl. handles



Swiveling endo coupler

for ergonomic and safe connection of the endoscopes.

- | 7 active channel connections
- | Leak test channel
- | Connection monitoring for the endoscope

A fine filter protects the channel monitoring system and the endoscope against contaminants during reprocessing (mesh size: 0.3 mm).



Endo adapter sets

- | Monitoring system for all active channels with flow measurement plus leak test
- | Pre-configured adapter sets with a large number of different connectors for most endoscopes of the manufacturers Olympus, Pentax, Fujifilm, Wolf & Storz



Rotating nozzles

- | Rotating nozzles in the chamber for external cleaning (no spray arms)



“Halo” LED control panel

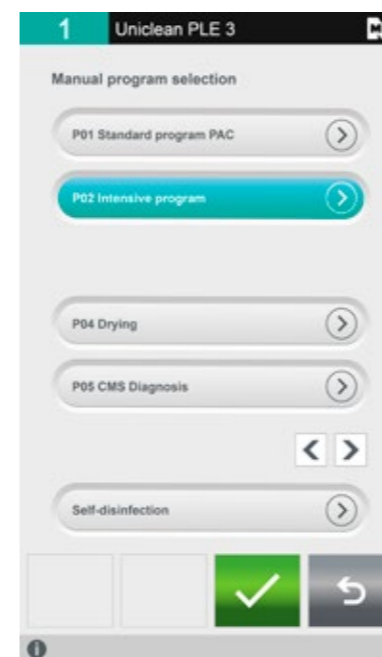
with 10" MMM Smart HMI

Light and light effects not only have a proven beneficial effect on humans but also increase the quality and pleasantness of the workplace. The “Halo” LED control panel developed by MMM provides a perfect interplay of ambience and function.

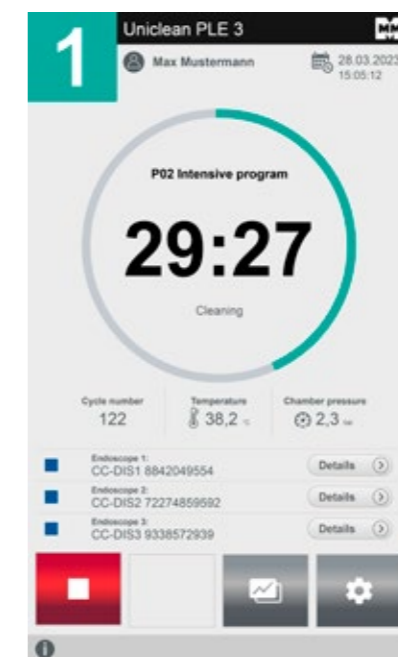
The “Halo” light effect in various status colors reflects off the stainless steel surface and gives the MMM washer-disinfector a stylish appearance. The vertically arranged control panel with the MMM Smart HMI promises intuitive and reliable operator guidance.

MMM Smart HMI

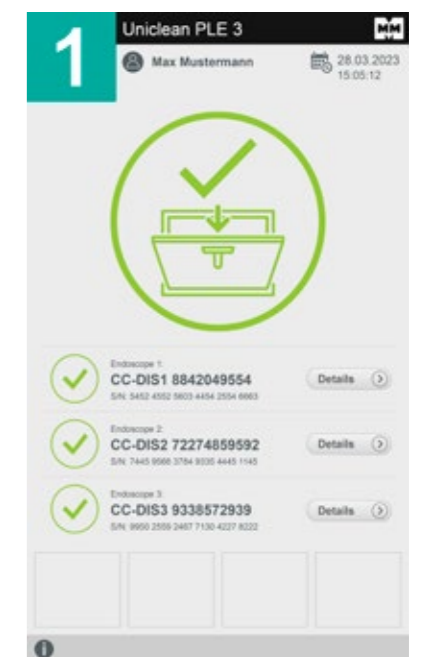
- | PLC controller with 10" touchscreen, vertically arranged.
- | The clearly structured menu navigation ensures a high operational reliability.
- | The large remaining time display enables optimal time management.
- | Validated according to DIN EN 62304 “Medical device software - software life-cycle processes”.
- | The sophisticated parameter structure provides a high level of flexibility when configuring the machine.
- | If the system is not used for a longer period of time, an energy-saving idle mode is activated.



Program selection



Program sequence

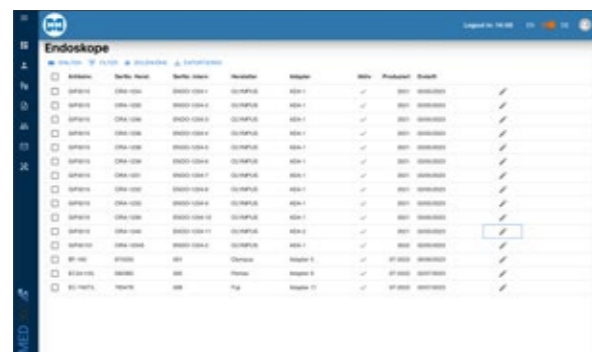


Program end

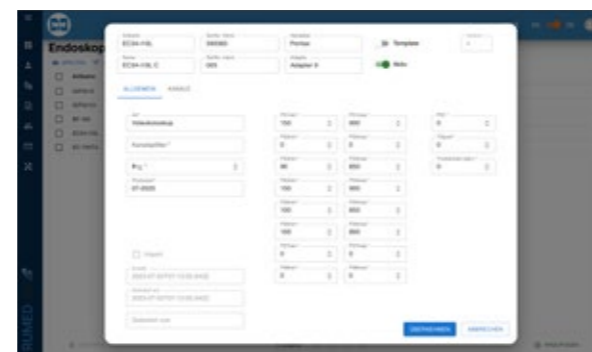


RUMED360® Endo Admin software packages

RUMED360® Endo Admin is a modularly designed application for digital administration of the “endo system”, which comprises the Uniclean® PLE 3 and EDScab® 8H. The tool is used for monitoring, evaluating and analyzing the endo system, and for administering the endoscopes, adapters and users. Complete documentation can also be produced, visualized and printed via this tool.



Endoscope database



Entering the endoscope details



Channel monitoring



Statistics module



MODULE 1 – Endo Admin base package

- | User and endoscope administration incl. channel parameters
- | Process documentation
- | Visualization of the cycle data
- | Dashboard
- | Documentation of the chemicals used
- | Emergency plan in case of network outage



MODULE 2 – Service package

- | ISA (Intelligent Service Advisor)
- | Remote maintenance via VNC (Virtual Network Computing)
- | Analysis tool for MMM customer service



MODULE 3 – Automatic data synchronization

- | Synchronization of endoscope and user data with all connected machines (Uniclean® PLE 3 washer-disinfector and EDScab® 8H storage and drying cabinet)
- | Synchronization across locations also possible



MODULE 4 – Statistics

- | Utilization of the machines
- | Utilization of the endoscopes
- | Successful and defective machine cycles
- | Successful and defective reprocessings per endoscope
- | Top 10 (or more) most frequent errors per machine or overall
- | and lots more

Endo sieve basket

Made from stainless steel wire mesh for holding a flexible endoscope. With 4 side grips and support base made from plastic for optimal handling.



The sieve baskets are compatible with the Uniclean® PLE 3 and the EDScab® 8H storage and drying cabinet.



Secure connection of the endoscopes

Endo adapter sets

Complete adapter sets or individual adapters for a wide variety of endoscope types from Olympus, Pentax, Fujifilm, Wolf & Storz.



The reliable partner at your side

MMM Customer Service

With us, you receive more than just repairs. From commissioning and validation right through to maintenance and ongoing support – you can rely on us!

We offer a comprehensive portfolio of services in the proven MMM quality and solutions perfectly tailored to your needs.



Inspection



Servicing



Repair



Validation, requalification and testing



Extensions and updates/upgrades



Energy optimization



Spare parts



Training



Software

MMM. Our global branches.



MMM Group

MMM has been operating worldwide as one of the leading system providers in service of health since 1954. With a complete range of products and services relating to all aspects of cleaning, disinfection and sterilization systems for the fields of Healthcare and Life Sciences, MMM has positioned itself as a major driver of quality and innovation in both the German and international markets. Our products are

individually adapted to the requirements of our customers all over the world. The high vertical integration of the manufacturing in our plants ensures that we fulfill the most stringent demands for quality in the medical technology industry. More than 1200 employees apply their expertise and dedication to the mission of the MMM Group:

MMM. Protecting human health.



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