



**Jiajing Medical**

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# Endoscope Reprocessing Solution

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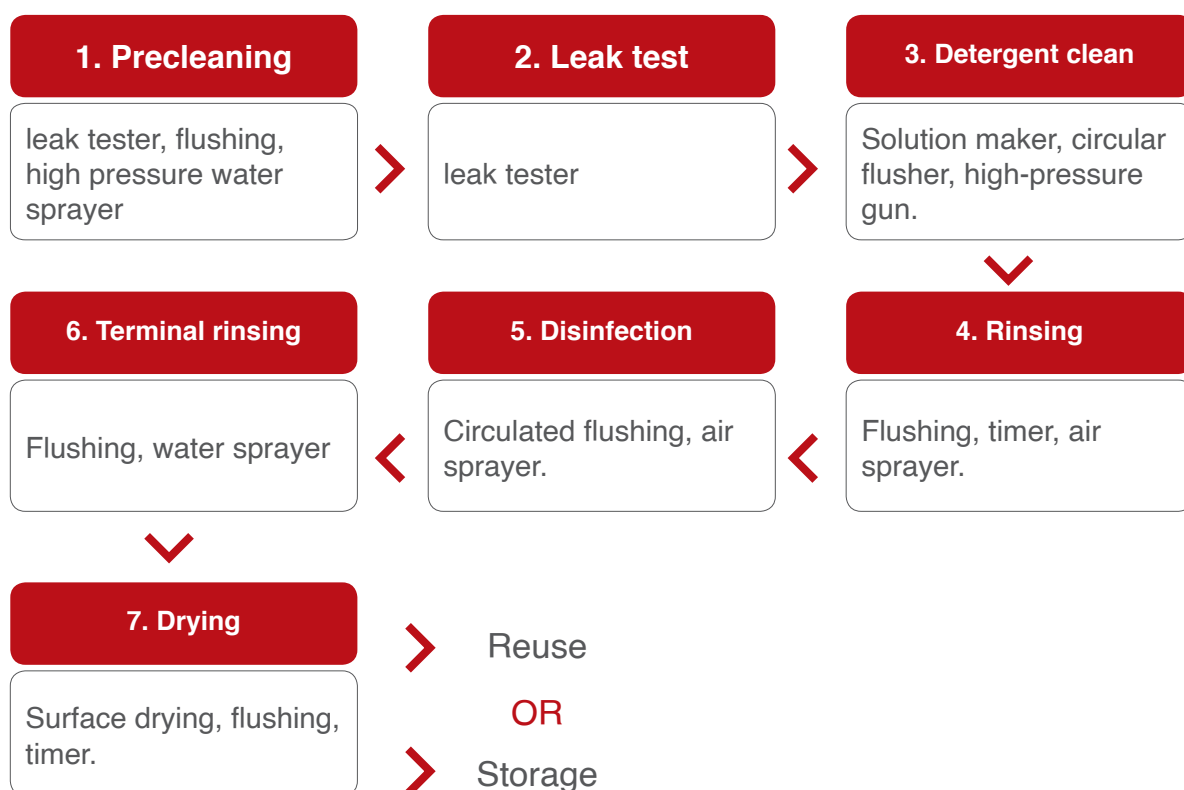
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# FLEXIBLE ENDOSCOPE REPROCESSING SINKS/BASINS

Each basin is used for specified step of scope reprocessing process.

The flexible endoscope reprocessing basins combination is designed to meet standard WS507-2016 – *Technical Specifications for Cleaning and Disinfection of Flexible Endoscopes*. Flushing, testing and other required devices are integrated to the basin to improve endoscope reprocessing consistency, effectiveness and efficiency, which substantially improves endoscope turnaround rate and reduces healthcare workers labor. Customization according to room size and layout and department requirements is available.



## Features

- PMMA-ABS polymer composites.
- Flushing device is equipped on all basins/sinks
- Multiple designs for selection. Customization is available.
- Microcomputer controlled process
- Splashback where control panel, water and air spray guns etc. are mounted.

# MANUAL BASINS WITH BUILT-IN AER

## Manual Cleaning Basin Integrated with Automated Endoscope Reprocessor (AER)

Steps from Detergent Cleaning (step 3) to Rinsing (step 4) could be accomplished with Automated Endoscope Reprocessor. With built-in AER, workload of healthcare worker is reduced further, and saves more space for healthcare facilities. Same as the manual cleaning basins combination, the design can be customized according to room size and layout.



### 1. Precleaning

leak tester, flushing, high pressure water sprayer

### 2. Automated clean

detergent cleaning, rinsing, disinfection, final rinsing

### 3. Drying

Surface drying, flushing, timer.

✓ OR ✓  
Reuse Storage

## Specifications

Model	Size	Weight	Configuration
JCC-R	3600*710*1800mm	150 kg	4 basins + 1 drying platform
	4200*710*1800mm	/	5 basins + 1 drying platform
	Customer's requirements	/	8 basins + 1 drying platform
	Customer's requirements	/	10 basins + 1 drying platform

○ Air pressure: 0.15 – 0.85MPa

○ Timing period: 0 – 99'59"

# AUTOMATED ENDOSCOPE REPROCESSOR

Single basin and double basins

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## Features

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### Automatic door and pedal switch

- Transparent visible glass door helps real time monitoring disinfection procedure.
- Pedal switch allows you to handle AER cover while operators hands are occupied.

### Disinfectant management

- Automatically recording the usage times of disinfectant and prompt the disinfectant expiration.
- Automatically sampling disinfectant facilitates testing disinfectant sampling. Operator does not need to sample disinfectant.
- Automatically add and drain disinfectant.

### Control, traceability and communication

- Microcomputer control. Multiple programs meet various reprocessing requirements.
- Intuitive 7-inch control touch panel eases

machine operation.

- Built-in printer print disinfection details of every disinfection process, facilitating documents archiving.
- Ethernet port for the endoscope tracing system to connect to.

### All channels and surface thorough disinfection

- Spray arms at the bottom and top of basin help ensure the exterior surface of scope, basin and lid interior surface are disinfected and cleaned.
- Booster pump supply effective flow pressure to flush scope channels, preventing formation of biofilm.
- 0.2 micron filter to filter final rinsing water, avoids contamination caused by rinsing water.



# AUTOMATED ENDOSCOPE REPROCESSOR

Single basin and double basins

## Features

### Self-disinfection avoids cross infection.

- All channels and lumens are disinfected which is contacted by solutions and water during cleaning, disinfection and rinsing processes.

### Water and energy saving

- Adopt center-raised design, saving energy, water and disinfectant consumption in every procedure.

### Leak test over whole process

- Finish leak test before scope contact with any liquid of reprocessor, like detergent, disinfectant or water. If leakage is detected, washing and disinfection process will be stopped, audio and visual alarm be emitted simultaneously.

Model	Carin-500	Carin-600
Dimension	580*695*1024mm	1160*695*1024mm
Weight	130kg	250kg
Power supply	AC220V, 50Hz	
Sink quantity	1	2
Sink volume	20L	20L
Disinfectant container volume	15L	15L

# WATER TREATMENT SYSTEM FOR ENDOSCOPE REPROCESSING USE

HCR-CS endoscope water treatment system is to provide sterile water for hospital CSSD and endoscope reprocessing center. The quality of the produced water complies with the regulations of ISO15883-2018

The water treatment components are integrated into one shell and is equipped with a swivel wheel at the bottom. The equipment is easy to install and use. Integrated modular design concept increases its scalability and compatibility. Endoscope cleaning and disinfection equipment can be directly connected to it. The water treatment system includes a pretreatment device, a reverse osmosis device and a water supply sterilization device. The microbial count of purified water is  $\leq 10\text{CFU}/100\text{ml}$ , which complies with requirements for scope reprocessing water. The pore size of the reverse osmosis membrane employed is 0.0001 micron.

Microcomputer controls whole water treatment process. After parameters are set, configurations will be saved and just one click to finish the treatment process. Equipment running status will be monitored in whole process. Safety devices like low feed water pressure sensor ensures equipment runs smoothly. When low feed water pressure is detected, alarm goes off and equipment stops.



## Features

- Efficiently remove impurities, microorganisms from untreated water to prevent build-up of scale and bio-film.
- The pretreatment device effectively intercepts sediment and other inorganic matter in the water, adsorbs calcium and magnesium ions in untreated water, and thus ensures the feed water quality of the reverse osmosis membrane.
- Pulsatile flushing function of reverse osmosis part prolong service life of RO membrane and guarantee conductivity of purified water.
- Treated water supply pressure is stabilized
- Disinfection system includes physical and chemical disinfection methods. The water circulating pipeline effectively inhibits the bacteria colonization.
- Multiple sensors monitors running status water quality, flow rate, pressure and other information in real time and emit fault alarms.
- Specialized for endoscope cleaning or reprocessing, treated water has been certified to be qualified for endoscope reprocessing use.

## Specifications

Model	Overall dimension/mm	Production capacity (optimal capacity at 25 °C)	Power/kW
HCR-CS 100	880*660*1470	100	2
HCR-CS 300	1150*800*1800	300	3
HCR-CS 500	1300*800*1800	500	3
HCR-CS 1000	1300x800x1800	1000	4
HCR-CS 1500	1500x800x1800 (frame)	1500	6
HCR-CS 2000	1500x800x1800(frame)	2000	6

# FLEXIBLE ENDOSCOPE VERTICAL STORAGE CABINET

Jiajing Endoscope drying and storage cabinets are designed to efficiently vertically store and manage your flexible scopes in a clean environment.



## Features

- Vacuum forming inner chamber made from ABS + PMMA composite material, with smooth surface, and is easy to clean.
- Outer shell made of precision-cutting steel fits well with inner chamber.
- Main functions: ultraviolet disinfection of airflow channel, double axial fans air circulation, LED lightening, display of time and date, temperature and disinfection time.
- 7-inch color touch panel eases operation.
- Door(s) lined with seal strips create an enclosed space, isolating the scopes inside from the ambient.
- 3 vertical hanging racks for each endoscope protect endoscopes from touching and damaging each other.
- Internal air can be circulated and disinfected by ultraviolet. Operator can set disinfection period and starting time.
- LEDs light up when cabinet door(s) is open, facilitating placing and taking of scopes.
- Storage method: vertically hanged.
- Power supply. 220-230V, 50/60Hz

## Specifications

Model	Dimension	Storing capacity	Weight
HCR-DX04	740*545*2130mm	4 pcs	80kg
HCR-DX06	890*600*2150mm	6pcs	100kg
HCR-DX08S	1320*545*2130mm	8 pcs	135kg
HCR-DX12S	1540*600*2150mm	12 pcs	155kg

# FLEXIBLE ENDOSCOPE HORIZONTAL STORAGE CABINET

Jiajing Endoscope drying and storage cabinets are designed to efficiently horizontally store and manage your flexible scopes in a clean environment.



## Features

- High-quality one-sheet PMMS chamber ease cleaning and maintenance.
- Disinfection modes includes modes: manual, automatic, reservation and loop.
- Horizontal storage. High-molecule trays protect your scopes from any accidental impact.
- Electrical lock eases opening the door.

## Specifications

Model	Dimension	Storing capacity	Weight
HCR-DP08	880*630*2080mm	8 pcs	100kg
HCR-DP16S	1600*630*2080mm	16pcs	155kg

# CONCENTRICALLY HANGED & ROTATABLE HANDER CABINET

Jiajing Endoscope drying and storage cabinets are designed to efficiently VERTICALLY store and manage your flexible scopes in a clean environment. Endoscopes can rotated inside the cabinet while on the central hangers, facilitate access to the endoscopes.



## Features

- Electrostatic coating, robust and easy to clean
- Four (4) holders for each endoscope to secure and protect each endoscope.
- Centrally stored and rotary hanger facilitate access to each endoscope.
- Disinfection modes includes modes: manual, automatic, reservation and loop.

## Specifications

Model	Dimension	Storing capacity	Weight
HCR-SX04X	740*545*2070mm	4 pcs	80kg
HCR-SX08S	880*630*2080mm	8pcs	100kg
HCR-SX08XS	1320*545*2070mm	8 pcs	135kg
HCR-SX16XS	1600*630*2080mm	16 pcs	155kg



# HANGING RACK

Storage cabinet creates a confined clean space by air disinfection and purification techniques. If you have already had a clean room suitable for storing endoscopes, you do not need that cabinet any more. Hanging racks for holding and securing the scopes are sufficient, which reduces your cost and facility access to endoscopes.



## Features

- Three (3) layers scope holders.
- Adjustable height.
- Drain tray for residual water collection.
- Customizable size.

## Specifications

Model	Dimension	Storing capacity	Weight
HCR-SX04X	740*545*2070mm	4 pcs	80kg
HCR-SX08S	880*630*2080mm	8 pcs	100kg
HCR-SX08XS	1320*545*2070mm	8 pcs	135kg
HCR-SX16XS	1600*630*2080mm	16 pcs	155kg

# HORIZONTAL STORAGE & DRYING

Purification system is used to maintain the space at cleanliness ISO 5.

Dehumidification system removes moisture from inside and consequently prevent the proliferation of microorganisms.



## Features

- Intelligently recognize status of each storage slot by real-time monitoring every channel's pressure
- Purification and dehumidification systems maintain air cleanliness at ISO 5 and low moisture to prevent microorganism proliferation.
- Positive pressure inside prevents impact from ambient environment.
- Separate tray for each endoscope and laminar flow lower cross infection risks.
- Anti-bacteria 304 Stainless Steel, easy to clean
- Port for connecting to tracking system

## Specifications

Model	Dimension	Storing capacity	Weight
HCR-SP12Z	530*735*1980mm	12 pcs	135kg
HCR-SP-24ZS	1090*735*1980mm	24 pcs	235kg



# HORIZONTAL STORAGE & DRYING

Purification system is used to maintain the space at cleanliness ISO 5.

Dehumidification system removes moisture from inside and consequently prevent the proliferation of microorganisms.



## Features

- Staggerd slots layout facilitates your access to the endoscopes.
- Intelligently recognize status of each storage slot by real-time monitoring every channel's pressure
- Purification and dehumidification systems maintain air cleanliness at ISO 5 and low moisture to prevent microorganism proliferation.
- Positive pressure inside prevents impact from ambient environment.
- Separate tray for each endoscope and laminar flow lower cross infection risks.
- Anti-bacteria 304 Stainless Steel, easy to clean
- Port for connecting to tracking system

## Specifications

Model	Dimension	Storing capacity	Weight
HCR-SP16Z	1100*725*1950mm	16 pcs	215kg

# VERTICAL STORAGE & DRYING

Purification system is used to maintain the space at cleanliness ISO 5.  
Dehumidification system removes moisture from inside and consequently prevent the proliferation of microorganisms. Vertical storage complies with guide from scope manufacturers on endoscope storage. Centrally positioned hangers can be rotated to facilitate access to endoscopes.



## Features

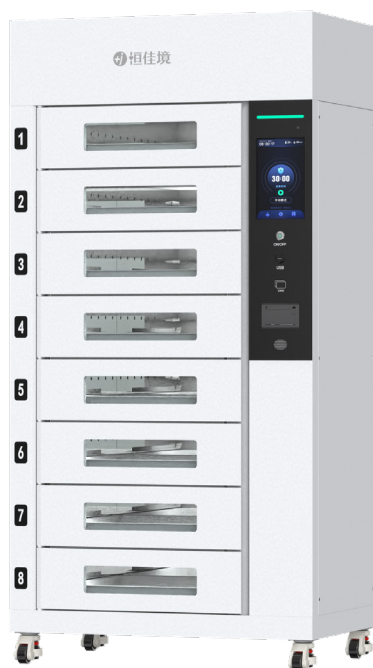
- Endoscopes vertically stored and hangers can be rotated.
- Electric door frees your hands.
- Intelligently recognize status of each storage slot by real-time monitoring every channel's pressure
- Purification and dehumidification systems maintain air cleanliness at ISO 5 and low moisture to prevent microorganism proliferation.
- Positive pressure inside prevents impact from ambient environment.
- Separate tray for each endoscope and laminar flow lower cross infection risks.
- Anti-bacteria 304 Stainless Steel, easy to clean
- Port for connecting to tracking system

## Specifications

Model	Dimension	Storing capacity	Weight
HCR-ZX08ZX	940*700*1970mm	8 pcs	215kg
HCR-ZX16ZXS	1400*700*1970mm	16 pcs	295kg

# ISOLATED CHAMBER FOR EACH SCOPE

Purification and purification systems are used to maintain air cleanliness at ISO 5 and keep low moisture level, effectively preventing the proliferation of microorganisms. Each scope has a isolated storage chamber, not sharing a space among multiple scope, which effective reduce cross infection among.



## Features

- Endoscopes horizontally stored and each scope has separate storage chamber.
- Electric door frees your hands.
- Intelligently recognize status of each storage slot by real-time monitoring every channel's pressure
- Purification and dehumidification systems maintain air cleanliness at ISO 5 and
- low moisture to prevent microorganism proliferation.
- Positive pressure inside prevents impact from ambient environment.
- Separate tray for each endoscope and laminar flow lower cross infection risks.
- Anti-bacteria 304 Stainless Steel, easy to clean
- Port for connecting to tracking system

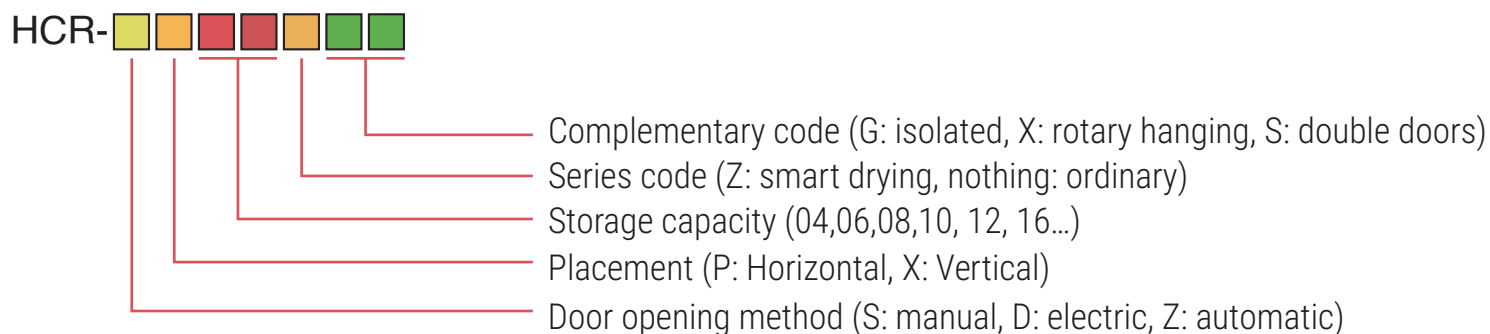
## Specifications

Model	Dimension	Storing capacity	Weight
HCR-DP08ZG	880*590*1745mm	8 pcs	190kg

# STORAGE CABINET NOMENCLATURE

Considering there are many models of flexible endoscope storage cabinet, we believe a diagram of cabinet nomenclature is useful for finding the mode of your interest.

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Example:

1. HCR-DX04 indicates a storage cabinet with electric door (D), where scopes are vertically hanged (X) and storage capacity being 04 scopes (04)
2. HCR-SP16Z indicates a storage cabinet with manual door (S), where scopes are horizontally placed in trays, storage capacity being 16 scopes (16) and with smart drying system (Z)

# ULTRASONIC CLEANING SINK

Ultrasonic cleaning machines are essential equipment for hospital laboratory department, dental department, CSSD, endoscopy room, and operating rooms. They are used to clean deep or blind holes, concave and convex graves of various contaminated instruments like rigid endoscopes, lumen instruments, surgical instruments, syringes, test tubes, glass sheets, dressing bowls, plates, barrels and other contaminant equipment.

## Features

- Anti-oil stainless steel container
- High power and full-wave
- Adjustable temperature and time. (20 – 80°C, 0 – 30 min)
- Adjustable frequency
- Electric drainage pump



Model	Overall size/ mm	Sink size/ mm	Volume /L	Ultrasonic power
HCRsonic-B10	590*710*1600	300*240*150	10	240
HCRsonic-B15	590*710*1600	330*300*150	15	360
HCRsonic-B22	590*710*1600	500*300*150	22	480
HCRsonic-B30	590*710*1600	500*300*200	30	600
HCRsonic-B60	590*710*1600	430*450*200	38	0 – 1200 (adjustable)
HCRsonic-B80	680*710*1600	550*450*200	50	0 – 1200 (adjustable)

## Accessory of cleaning basins

### Electric lid flipping device



The electric flipping replaces manual sink cover and is controlled by a foot switch, easy and efficient. This avoids contact with contaminant and improves the work efficiency of medical staff.

#### Features

- Lid made from acrylic or tempered glass. Lid edge fits well with sink, preventing diffusion of odor.
- Pedal switch free operator's hands and reduce contamination.
- Also switch on the touch panel.
- Spraying arm can be installed below lid of final rinsing sink.

Model	Installation position	Control method	Material	Voltage
HCR-DDFG401	disinfection sink	pedal & touch panel	acrylic	24V
HCR-DDFG402	disinfection sink	pedal & touch panel	tempered glass	24V
HCR-DDFG501	Final rinsing sink	pedal & touch panel	acrylic	24V

### Disinfectant management system



The disinfectant management system is a functional device in the disinfection tank of the endoscope cleaning workstation. This system is used for disinfectant recovery (hidden), injection and discharge. When disinfectant usage count or life expire, operator will be prompt to replace with new disinfectant.

#### Features

- Automatically recycles and reuses disinfectant, improving disinfectant utilization efficiency.
- Recycling container is made of PE material with excellent chemical stability and resistance to acid and alkali corrosion. Container volume range from 20L-32L.
- After the disinfectant recovery or injection back into sink are completed, operator will be alerted with audible and visual signal.
- Embedded in the endoscope cleaning workstation.

Model	voltage	Installation	Container volume/l
HCR-XDY205	24V	Embedded	20
HCR-XDY255	24V	Embedded	25
HCR-XDY325	24V	Embedded	32

## Accessory of cleaning basins

### HCR-PF01 Disinfectant vapor exhausting device



During reprocessing of scopes, disinfectant chemicals or vapor containing disinfectant may evaporate. The disinfectant will irritate operator's skin, eyes and be inhaled by operators. This exhausting device is to reduce the disinfectant concentration in the air, reducing chemical risks posed on operators.

#### Features

- Compatible with most cleaning sinks.
- Two air outlet options: 1. pass through activated carbon filter and directly discharged into the room, or 2. connected to a pipeline and discharged outside the room.
- There is a drainage port under the air intake vent to prevent disinfectant from entering the device.
- Wide vent opening and a built-in turbine fan effectively collect and inhale odor during the cleaning process.

Model	Size/mm	Inlet vent size/mm	Power supply	Power
HCR-PF01	360*163*223	200*80*55	AC 220/50Hz	46W

# HCR-DCG ENDOSCOPE PASS-THROUGH DOUBLE-DOOR CABINET

Designed for pass-through of endoscopes between departments. It can be installed between dirty area and clean area, or between clean areas, for contemporary storage and pass-through use.

## Features

- Corrosion resistant rust-proof powder coated steel shell.
- Corrosion resistant 304 stainless steel inner chamber resists most harsh chemicals and alcohol-based cleaning agents, won't produce contaminant during sterilization.
- 7-inch color touch panel facilitate operation.
- Door interlock automatically engages when one side is open, to prevent other side from being opened.
- Ultraviolet disinfect circulated air inside cabinet.
- Disinfection time can be timed.
- Lamps light up when door is open.



Model	Dimension	Number of trays	Power
HCR-CDG02	932*732*980mm	2	220V / 60W
HCR-CDG04	932*732*1870mm	4	220V / 70W



# ENDOSCOPE TRANSIT CART



①

HCR-TCX03(rotatable)



②

HCR-TCA03



③

HCR-TCA02

**Overall size:** 700\*495\*1000mm  
**Tray size:** 620\*450\*90mm

## Features

- Cart made of powder coated steel. Tray made of composite polymer material.
- Highly transparent PMMA cover.
- Corrosion and aging resistant, water repellent.

# ENDOSCOPE LEAK TESTER

Detect endoscope leaks with high precision. Early detection of endoscope leaks can reduce endoscope repair costs and reduce the risk of cross-infection. It is suitable for leak detection of flexible endoscopes of brands Olympus, PENTAX, Fujifilm, Aohua, Kaili and others. High quality and precision pressure sensor and other components are employed to achieve endoscope dry and wet leak tests. Information traceability is also available in this machine.

## Features

- 2 leak test methods, dry and wet are available.
- Testing history recording. Scope serial No., testing date, test result etc. will be automatically recorded and can be exported.
- Compact size. Can be installed on wall or desktop.
- Built-in lithium battery. Standby time can reach 14 days. Swipe card can be recognized.
- Fast leak detection. Automatic leak detection completed in 60 seconds. Easily achieve leak test for every scope.
- Accuracy. Excellent leak detection logic will not miss any endoscope leaks.



## Specifications

Model	HCR-CL352
Size	180x190x75mm
Usage	Automatic inflation and testing, recording
Compatibility	Olympus, PENTAX, Fujifilm, Aohua, Kaili
Power	DC24v/6w
Net weight	2.4kg
Display and control	2.8-inch touch panel

# ENDOSCOPE LEAK TESTER

Only leak testing function without tracing and swipe card recognition function

Inflation pressure and pressure difference threshold, recognized as scope leak, can be changed according to demand.



Model	Power sup-ply	Size/mm	Inflation pressure	Display and control	Number of connectors
HCR-CL350	DC24/30W	180*100*50mm	<35Kpa	2.8-inch touch panel	1
HCR-CL650	DC24/30W	190*100*50mm	<35Kpa	2.8-inch touch panel	2