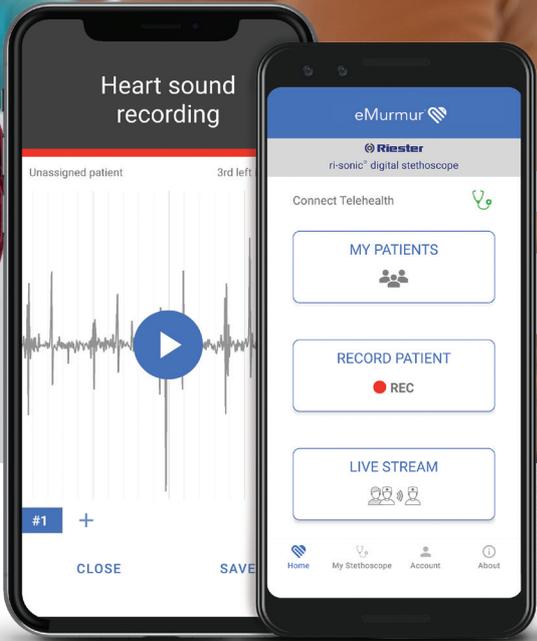
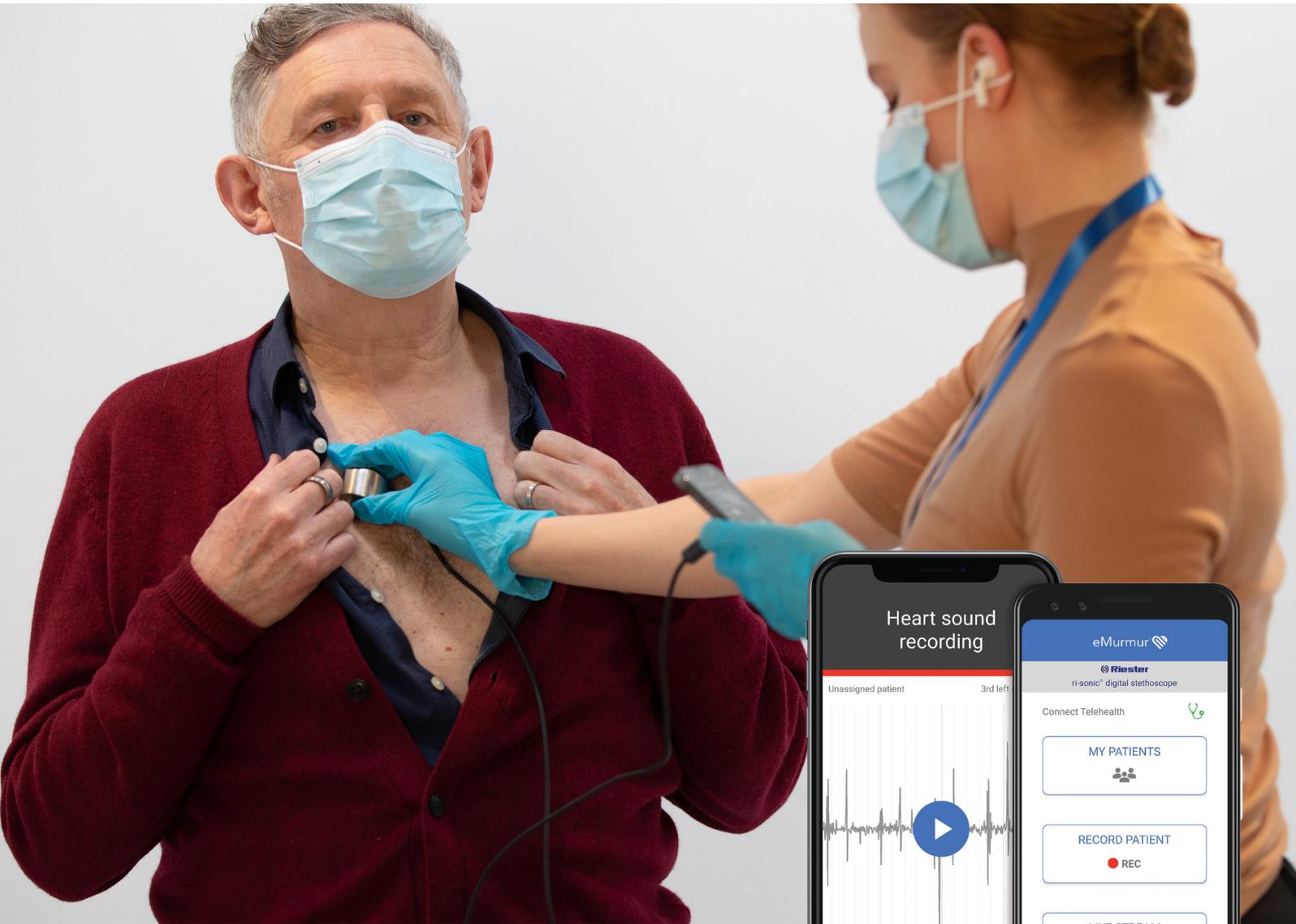




# Product Overview



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At Riester, we have a proud history of excellence, developing the highest quality diagnostic medical devices with a no compromise approach since 1948. We take pride in our reliability, from research and development, to quality control and production of the highest standards.

In 2007, Riester was acquired by Halma plc, transforming Riester from a family-owned business into being part of an international group of companies. Through trust and partnership, Riester has developed a global reach, offering products to over 150 countries worldwide!

**Achievement, Innovation, Empowerment and Customer Satisfaction** are Riester's core values, that are integrated into all aspects of our daily business.

Understanding our customers' needs, and meeting them with our high performance diagnostic products, has been crucial to our success and longevity. It allows us to meet their expectations, and help them face the challenges they encounter in healthcare. At Riester, we share the passion of everyone involved in healthcare, that is why we are investing in digital transformation and innovative solutions.

The Riester brand is now being extended to the world of Telehealth, connected devices and AI diagnosis, delivering a high-quality Telemedicine solution to Riester customers globally. This will help solve the challenges faced by hospitals and healthcare systems today, and for the future.

The Riester name has ensured trust for over 70 years in the Medical Device market and can now be the name to trust in the Telemedicine market for the next 70 years and beyond.



## **A force for innovation**

- Telemedicine
- AI Diagnostic & Analytics
- Training and Development

# Riester Telemedicine

A wide range of Telemedicine solutions



ri-sonic® + eMurmur®

Electronic Stethoscope

+ Advanced Digital Auscultation

The Riester ri-sonic® electronic stethoscope with eMurmur® advanced digital auscultation platform, now makes it possible for healthcare professionals to screen, monitor, diagnose, and consult on heart, lung, and bowel health, whether the patient is in clinic, in hospital, or in residence.

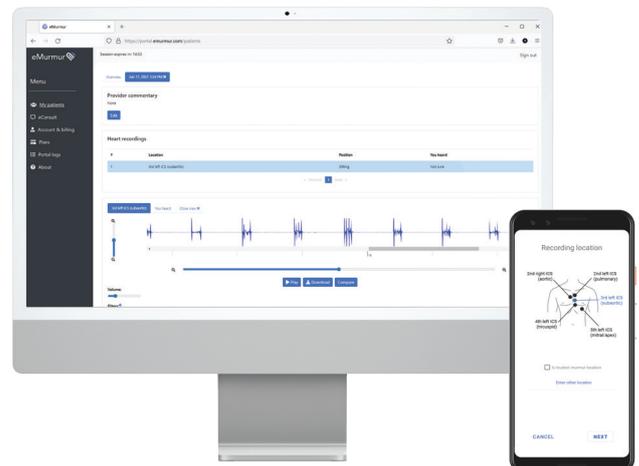


ri-sonic® and eMurmur® software provides users with a digital auscultation platform. Replay, download, compare and share the recorded files. Listen for differences by comparing past auscultation sessions, track any adverse changes over time.

## eMurmur® : Advanced digital auscultation

eMurmur® facilitates the recording and live streaming of cardiac and pulmonary sounds; specialist review and consult; electronic case reporting of auscultation sessions, and more.

- > Primary modes of digital auscultation at home and in clinic: Bedside digital auscultation, Real-time remote auscultation, Asynchronous auscultation.
- > Browser-based web portal to review, manage, and conduct electronic reporting of auscultation data.
- > HIPAA- and GDPR-compliant.
- > End-to-end encryption.
- > eConsult.
- > iOS, Android and Web portal.
- > State-of-the art audio quality.
- > User-friendly design.





## RCS-100 Wireless Medical Camera System

The Riester **RCS-100** is a portable and versatile digital diagnostic camera. Featuring multiple lens attachments, enabling instant sharing across your practice and across the world.

- › 8 MP true HD camera provides high resolution images to easily share.
- › 2x - 8x magnification with interactive digital zoom capabilities.
- › Large 5" touchscreen with intuitive interface for easy image capture and management.
- › LI-Ion battery offers 3.5 hours of operating time in video mode.

**NEW:** The Riester **RCS-100** with endoscope adapter.



## Riester Telemedicine Solutions

The Riester **Telemedicine station** boasts an innovative modular design configurable to accommodate a wide array of examination capabilities. It scales to fit your evolving telemedicine needs, so you can easily expand the scope of services offered.

The Riester **Telemedicine Case** is suitable for many healthcare applications that requires the use of diagnostic medical equipment, connected via a two way software interface. Suitable for a variety of 'in field' medical situations, reaching those who are most vulnerable as quickly as possible, no matter where the patient, doctor or specialist is located.



Telemedicine Case



Telemedicine Station

# Vital Signs Monitor

## RVS-100

### Vital Signs Monitor

A versatile, intuitive touch screen vital signs monitor with Early Warnings Scores (EWS) and wireless Bluetooth connectivity to the Riester tympanic and non-contact thermometers



### RVS-100 VITAL SIGNS MONITOR

- › 3 measurement modes (Continuous, Spot-check, Triage).
- › EWS/NEWS for early detection of patient deterioration and diagnostic triage.
- › WiFi enabled and LAN Ready.
- › Connectivity with the EMR - using the HL7 standard.
- › Supports nurse call RJ11 port.
- › Internal memory for 5,000 measurements.
- › Lithium-ion battery with 11 hours run time.
- › **Options:** Thermal printer, Barcode reader, Mobile stand including basket for storage (cuffs, sensors, cables), WiFi.
- › **Accessories supplied with monitor:** NIBP extension tube, 2 cuffs (adult & adult large incl. connectors), SpO2 sensor adult, SpO2 extension cable, Oral temperature probe\*, Probe covers\*.

\*only if pred. thermometer module is ordered.

### RVS-200 VITAL SIGNS WALL DIAGNOSTIC SYSTEM

- › Includes all RVS-100 features.
- › Power supply for up to 3 diagnostic handles.
- › Maintenance-free High Performance LED illumination.
- › Wide range of EENT **ri-scope** L instruments.
- › Integrated Specula dispenser.
- › Easy and discrete mounting.
- › **Options:** Thermal printer, Barcode reader, WiFi.



RVS-100



RVS-200



Barcode

# Thermometers



## ri-thermo<sup>®</sup> sensioPRO+

### Non-contact, Infrared forehead thermometer

- › Clinical grade reading in 1-2 seconds.
- › Meets ISO Standard 80601-2-56:2017.
- › Infrared, non-contact helps prevent cross contamination.
- › 3000 measurements on one set of batteries.
- › Memory recall: 30 measurement storage.
- › Backlit LED screen.

## ri-thermo<sup>®</sup> tymPRO+

### The unique Riester probe cover with dispenser box

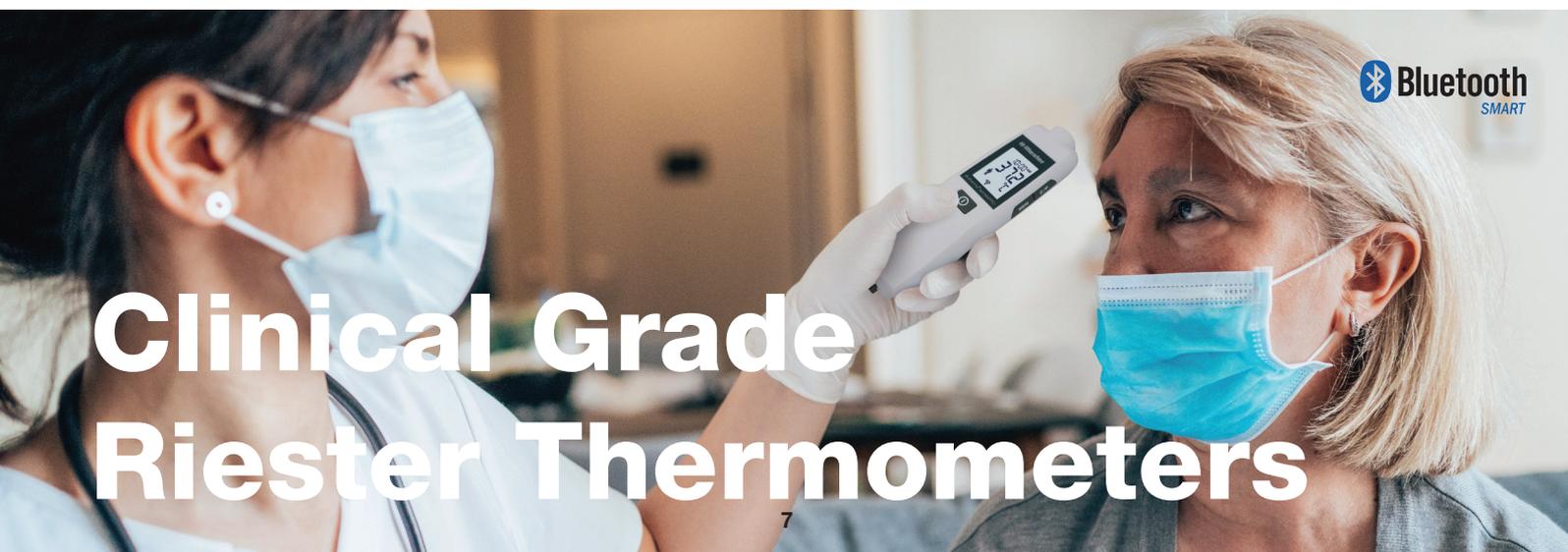
- › Clinical grade reading in 1-2 seconds.
- › Meets EN 60601-1 Standard.
- › Tympanic measurements calibrated to an oral reference, reflects core body temperature.
- › 3000 measurements on one set of batteries.
- › Probe Cover designed for patient comfort.
- › Backlit LED screen.



## ri-thermo<sup>®</sup> fastPRObe

### Fast reading electronic thermometer

- › Fast & reliable oral, axillary and rectal measuring in 60 sec. [direct mode]
- › Accurate to  $\pm 0.1^{\circ}\text{C}$  ( $\pm 0.2^{\circ}\text{F}$ ) / F:  $\pm 0.3^{\circ}\text{C}$  ( $\pm 0.5^{\circ}\text{F}$ ).
- › Meets ISO 80601-2-56:2017 thermometry standards.
- › Color coded, single use probe covers to distinguish between oral, axillary, and rectal.
- › 1000+ measurements on one set of batteries.
- › Convenient built-in storage for 20 probe covers.



# Clinical Grade Riester Thermometers

# Modular Diagnostic Station

ri-former®

## Modular diagnostic station

The Riester **ri-former®** is a modular diagnostic station offering flexibility for hospitals and medical practices. The diagnostic modules can be combined individually to suit the practitioner's specialty and location.



## DIAGNOSTIC STATION WITH MOBILE BASE

- › Available for 100-240 V power supply including a wide range of plugs.
- › 2 handles.
- › **ri-spec®**, ear specula dispenser.
- › Mobile base made of fibreglass and chrome plated pole (height adjustable) 105 - 130 cm (41.34 in - 51.18 in).
- › Easy to move due to low friction castors, antistatic, 2 castors can be locked, diameter 54 cm (21.25 in).

## DIAGNOSTIC STATION WALL DESIGN

- › Wall station with 1 or 2 handles.
- › Further handles may be added by extension module.
- › Otoscope L2 / Ophthalmoscope L2 LED 3.5 V.
- › **ri-spec®**, with 100 disposable specula.

## Blood pressure options

- › Fully automated clinical-grade blood pressure monitor (**RBP-100**)
- › Manual large scale clinical grade aneroid (**big ben®**)

## Thermometry options

- › Predictive oral / axillary / rectal thermometer (**RPT-100**)
- › Infra-red tympanic thermometer (**ri-thermo® tymPRO+**)
- › Non-contact, clinical grade infrared (**ri-thermo® sensioPRO+**)

ri-former® MOBILE BASE



bigben® and RPT-100 with ri-former® WALL DESIGN



# Blood Pressure

big ben®

Exact precision that lasts a lifetime

Available as desk, wall, floor and rail design with complete range of cuffs: Bladder cuffs, re-usable and disposable one piece.

BIHS



- > Generously dimensioned scale Ø 147.2 mm (5.8 in) and high-contrast scale layout for optimum readability.
- > Spacious basket on the reverse side for tubes and cuff.
- > Latex-free inflation bulb.
- > Spiral tube can be extended to 274.32 cm (9 ft).
- > Non-wearing air-release valve with fine adjustment.

## RBP-100

Automatic blood pressure devices

A new generation of a small, light and practical digital devices for maximum flexibility in patient diagnostics.

- > BIHS validated technology.
- > 10.16 cm (4 in) Easy to read LCD screen.
- > Oscillometric mode provides fast readings, typically 30 - 40 seconds.
- > Auscultatory mode with auto-deflate (3 mmHg/sec) provides consistent patient BP measurement.
- > Memory: capacity for 210 readings.
- > Easy to use one touch operation.



## ri-champion® smartPRO+

Non-invasive, Blood pressure monitor

A clinically validated blood pressure monitor, designed for fast and reliable readings. Advanced performance with irregular heartbeat detection and averaging capabilities.

- > Meets EN1060-4, NIBP clinical investigation.
- > CE / FDA Approved.
- > Accuracy to  $\pm 3$  mmHg or  $\pm 2\%$  of reading.
- > 200 measurements on one set of 4 AA batteries.
- > Optional Bluetooth® connectivity.

# ri-scope® L Instruments

## ri-scope® L

### Advanced LED Lighting and Optics

HPLED illumination and Lithium-ion charging technologies combined with high performance instruments significantly reduce costs and improve both effectiveness and reliability.



High Performance  
LED



### ri-scope® L Otoscope

- › ri-scope® L Otoscope with fiber-optic illumination and reduced reflection of light.
- › Bi-directional swiveling lens with 3-fold magnification.
- › Built-in connector for pneumatic testing. (Pneumatic insufflator bulb sold separately)
- › Basic model L1 with reflection minimized direct illumination 2.5 V XL Xenon.
- › Available with optional C or AA handles.
- › L2 and L3 version with fiberoptic for optimal beaming and transmission of the light.
- › L2 and L3 available either with XL Xenon or LED lighting.
- › High-end version L3 equipped with operation lens SpecEjec.

### ri-scope® L Ophthalmoscope

- › All ri-scope® L Ophthalmoscopes include high-performance optics with aspherical condenser lens and reduced reflection.
- › The ri-scope® L Ophthalmoscopes have a thumb rest for securing the ophthalmoscope, which enables easy control with one finger.
- › Reflexes from the cornea and iris are avoided by separating the observational and illuminating light beams. (Coaxial / Gullstrand's principle)
- › 3 different versions L1, L2 and L3 available with correction lenses with up to 89 diopter values.
- › Easy to operate aperture hand-wheel for apertures and filters included in all three versions.
- › L1, L2 and L3 available either with XL Xenon or LED lighting.
- › High-end version L3 includes a focusing device with zero retention force for the quick correction of ametropias.



**Other Options Available** (Retinoscope, Dermatoscope, Tongue Blade Holder, Nasal Speculum, Illuminator, Operation Otoscope, Veterinary Operation Otoscope)

**Bulb Options** - LED, and Xenon



### ri-scope® L Sets

- › 2.5 V instruments including XL xenon or LED lamps.
- › 3.5 V instruments including XL xenon or LED lamps.
- › All 2.5 V Xenon sets in a hard case with safety catches including spare lamps. (LED sets without spare lamps)

### ri-scope® L Advanced Desk Set

- › ri-scope® L 2 heads - One otoscope L3 LED, ophthalmoscope L3 LED with 2 x 3.5 V.
- › Battery handle Type C.
- › ri-charger® L - The perfect charging base for all rechargeable handles, Type C / AA.
- › ri-accu® L - Li-ion battery.

## EliteVue

### Fiber Optic Macro Otoscope

The **EliteVue** macro-otoscope is the **NEW** standard.

The **EliteVue** offers twice the field of view and 66% greater magnification compared to standard otoscopes\*. The **EliteVue** offers a significantly improved view of the auditory canal and tympanic membrane, enabling more efficient diagnosis and enhanced patient outcomes. Suitable for throat illumination.

\*at a distance of 15 mm (0.59 in) between landmark and distal tip of the specula.

### EliteVue Otoscope

- › High-performance HPLED illumination. (4000 Kelvin, CRI = 92)
- › More than 5-fold magnification.
- › Twice the field of view.
- › Complete view of the tympanic membrane.
- › Reflection-optimized high performance glass optics.
- › Wheel to adjust focal depth.
- › Easy to operate SpecEjec device helps prevent cross contamination.
- › Suitable for pneumatic otoscopy.
- › A wide range of power supply options: as part of a diagnostic station, battery operated or with a rechargeable handle.

## rheotronic®

### Patented technology for LEDs and bulbs

- › 100% light output after short switch activation.
- › Continuously variable light adjustment.
- › Automatic safety shut-down after 180 seconds.



rheotronic®



# Professional diagnostic instruments of the highest standards



## ri-derma LED

### Direct light microscopy for examining the skin

- › Particularly suitable for the differential diagnosis of pigmented skin changes, such as malignant melanoma.
- › The upper skin layers are made visible by wetting with immersion oil. Surface structures, color, pigment distribution, non-melanocytic structures can be assessed.
- › Choice of 3.5 V LED or 2.5 V Xenon lamps.
- › Instrument head constructed to be dust-proof.
- › Focusable magnifying glass with 10-fold magnification for the most precise diagnoses and detailed images.
- › Two attachments which do not harm the skin – one with a scale from 0 to 10 mm for measuring skin changes and one without a scale; both can be disinfected.
- › Eyeglass protector.
- › Simple exchange of the lamp at the base of the head.
- › All handles and charging options from ri-scope®L are available.
- › Comprehensive operating instructions.



## ri-scope® retinoscope

### For recognition of myopia and hyperopia as well as astigmatism

- › XL 3.5 V xenon lamp or HL 2.5 V halogen lamp.
- › Two models are available: The spot-light retinoscope projects a circular light beam. The slit-light retinoscope with a light beam in the form of a line simplifies recognition and the determination of astigmatic refractive errors.
- › Simple operation with knurled thumb screw. The line and spot image can be focused with the operating element and turned 360 °, angle can be read off the integrated scale.
- › Holder for hanging and fixing the fixation cards into position for dynamic retinoscopy.
- › Two fixation cards and one spare lamp are supplied within the set.
- › Integrated eyeglass protection.
- › Bayonet fitting for fast and secure attachment to the handle.
- › Dust-tight, very sturdy and light casing made of impact resistant plastic.
- › Simple exchange of the lamp at the base of the instrument head.

## ri-vision

### ri-scope® L2 Ophthalmoscope and ri-scope® retinoscope

- › Available in 2.5 V HL/XL or 3.5 V XL xenon illumination.
- › In slit- or spot- version available.
- › Two fixation cards for dynamic retinoscopy.
- › 2 spare lamps included.



# USB-C HANDLE

Rechargeable Battery Handle with rheotronic®  
Industry Leading 10 hours Working Time

Designed for the  
existing family of  
Riester Products



**ri-derma®**  
DERMATOSCOPES



**ri-scope®L**  
OTOSCOPES



**ri-scope®L**  
OPHTHALMOSCOPES

A versatile USB-C charging handle providing you  
long operating time, interchangeable with a wide  
range of Riester instrument heads including  
**ri-scope®** and **ri-derma®** 2.5 V and 3.5 V

- › Higher capacity, with 10 hours operating time.
- › Battery status indicator visible on handle. (bicolor LED indicates fully charged, charging, or battery needs to be charged)
- › Wide range charger (100 - 240 V).
- › Universal USB type C charging technology.
- › Fully charged in 3.5 hours.



# E.E.N.T. Instruments

## e-scope®

### Green Efficiency

3.7 V LED illumination and conventional alkaline batteries – an almost impossible combination up to now. Not just pie in the sky, but state of the art. The new e-scope® is the perfect blend of leading-edge LED technology, more efficient diagnosis and an environment-friendly energy source.



### e-scope® Otoscope/Ophthalmoscope

- › e-scope® Otoscopes are available with halogen or vacuum direct illumination, F.O. xenon or F.O. LED.
- › e-scope® Ophthalmoscopes are available with vacuum, xenon or LED illumination.
- › e-scope® SET: e-scope® F.O. Otoscope/Ophthalmoscope LED 3.7 V in case.
- › **Options:** colors - White / Black.

## uni®

### uni® I Otoscope

- › Otoscope head, chromium-plated, sturdy.
- › With plug-in connector.
- › Removable cover glass.
- › Chromium-plated removable lens with 4x magnification.
- › With Vacuum lamp, 2.5 V XL Xenon or 3.5 V Xenon lamps.



### uni® II May-Ophthalmoscope

- › Correction lenses from 0 to +20 and 0 to -20 diopters. Aperture: large circle.
- › With 2.5 V XL Xenon or 3.5 V Xenon lamps.

### uni® III Otoscope/May-Ophthalmoscope

- › All models are fitted with battery handle type C for two batteries type C, and with rheostat for regulating the light intensity.

## econom

### The complete diagnostic set

- › Vacuum lamp 2.7 V, 2.5 V Xenon or 3.5 V Xenon lamps.
- › A choice of two sets is available: with expandable nasal speculum or with Ø 9 mm (0.35 in) nasal speculum.
- › Alternatively supplied with halogen or xenon lamps and rechargeable handles with NiMH batteries.
- › Apart from uni® otoscope and May-ophthalmoscope included are: Nasal speculum, bent arm illuminator, 2 laryngeal mirrors, tongue blade holder, 3 ear-specula, handle and spare lamp.
- › Nasal speculum expandable, chromium-plated metal.
- › Bent arm illuminator: Chromium-plated metal, for standard wooden tongue blade sizes or laryngeal mirrors, with battery handle type C for two batteries type C.



# Advanced Optics and Lighting

e-xam

## Diagnostic pen-light

- › With pre-focussed 2.5 V XL or 2.5 V LED illumination.
- › Tongue blade holder included, without batteries.
- › LED Version: Photobiological validation as diagnostic lamp for pupils according to EN 62471:2008.



ri-pen®

## Diagnostic pen-light

- › With 3 V LED, 5,000 Kelvin
- › Photobiological validation as diagnostic lamp for pupils according to EN 62471:2008
- › Including 2 batteries type AAA.
- › Aluminium outer casing with disinfectable special lacquering.
- › Simple on/off function through contact with the metal clip.
- › Supplied singly or in packs of 6 (assorted colors or six per color).

## ri-magic® HPLED

### HPLED Examination Light for Diagnosis and Procedures

- › High performance LED, 5.700 Kelvin / 140 Lumen.
- › Lifetime of the lamp up to 50.000 hours.
- › The focusing device at the front of the light head allows exact adjustment of the size of the illuminated examination area.
- › Highly flexible, long special arm can be bent in all directions, the light remains fixed in the chosen position.
- › Rheostat handle for infinitely variable regulation of light intensity.
- › Wide-range power cord for 230 V / 120 V.



# ri-focus® LED

## Wireless High Performance LED Headlight

- › One hand operation.
- › Wireless and balanced headband with built in battery compartment.
- › More efficient diagnosis due to white, high performance LED (5.700 Kelvin / 140 Lumen).
- › Service life of LED up to 50.000 hours.
- › Significantly less energy consumption and heat generation.



## K-LED Loupe Portable Light System

### Provides many hours of white light

The new Riester loupe light is one of the smallest and lightest available today and is fully portable. Ideal for both surgical and dental use, while coaxial illumination ensures shadow free viewing.

- › LED illumination gives 34,000 Lux of homogenous white light.
- › Retrofit to all Riester loupes.
- › Rechargeable Lithium battery pack, up to 4 hours continuous before a recharge is required.
- › **Options:** Yellow filter.



# Binocular Loupes

## SuperVu HiRes Galilean Binocular Loupes

### Designed for comfort and performance

With this system, Riester provides a high resolution loupe which far surpasses any previous standards. This 5-element loupe offers triple magnification with a 15% increased field of view and a visually flat field from edge to edge. Ideal for Surgical Assistants and in Ophthalmology.

- › Magnification: 3.0 x - working distances: 34 cm (13.39 in), 42 cm (16.54 in), 46 cm (18.11 in), 50 cm (19.69 in).
- › Field of view (3 x magnification).
- › **Options:** Select between the light Riester spectacle frame or the brow band system for the use of your magnifiers.



## SuperVu Galilean Binocular Loupes

### Designed for comfort and performance

An enlarged view simplifies your work. What you can't see you can't work on. A greater distance from the patient during treatment makes them feel more relaxed. Multiple magnification levels enable you to see more, spot problems earlier and offer even higher levels of precision treatment.

- › Patient comfort
- › More distance during treatment makes patients feel visibly better and more relaxed.
- › Several magnification grades
- › Riester magnifiers perform in accordance with your requirements.



## XL Advantage Binocular Loupes

Higher magnification for advanced surgical procedures; high quality prisms ensure excellent image quality; edge-to-edge clarity and precise colour rendition are ideal for intricate applications.

The XL precision lenses are treated with a non-reflective protective coating, providing excellent image quality.



# Sphygmomanometers

Riester does all the manufacturing and assembly for our sphygmomanometers in our factory in Germany. Years of use by our customers and our internal reliability testing shows that the quality is built in and our products will deliver consistent performance.



## R1 shock-proof®

### Exact precision that lasts a lifetime!

- › Patented (pending) shock-proof technology.
- › Fast, ergonomic inflation due to optimized ball design with integrated spoon.
- › Non-resistant opening of air release valve ensures precise and comfortable operation.
- › Shock-proof up to a height of 120 cm (47.24 in).
- › Focus Green Silver 2008 Design Award.
- › Scale: Ø 52 mm (2.04 in) white with blue pointer or black with red fluorescent pointer.
- › Two-component ABS casing.
- › Maximum error tolerance of + / - 3 mmHg.
- › Extensive selection of various cuff sizes.
- › Weight: 173 g (0.381 lb).

## minimus® II

### Metal Aneroid sphygmomanometer (Single-tube model)

- › High-polished chromium-plated metal casing with metal ring, and corrosion-protected.
- › Metallic screw tube connection at the top of the manometer for undisturbed handling.
- › Metal valve base.
- › Spoon-shaped handle made of stainless steel.
- › Linear aluminium scale Ø 49 mm (1.92 in), easy to read.
- › Latex bulb with chromium-plated precision air-release valve, fine regulation and non-wearing.



## minimus® III

### Metal Aneroid sphygmomanometer (Twin-tube model)

- › High-polished chromium-plated metal casing with metal ring, corrosion-protected.
- › Metallic screw tube connections.
- › Metal valve base.
- › Spoon-shaped handle made of stainless steel.
- › Linear aluminium scale Ø 49 mm (1.92 in), easy to read.
- › Latex bulb with chromium-plated precision air-release valve, fine regulation and non-wearing.



## precisa® N

### Aneroid sphygmomanometer in aluminium- or ABS-plastic casing

- › Metal valve base.
- › Spoon-shaped handle made of stainless steel.
- › Linear aluminium scale Ø 63 mm (2.48 in), easy to read.
- › Latex bulb with chromium-plated precision air-release valve, fine regulation and non-wearing.
- › Sturdy ABS plastic casing.
- › Metallic screw tube connection.
- › Sturdy and lightweight casing made of aluminium.
- › Plug-in tube connection made of metal.

## precisa® N shock-proof

### Shock-resistant Aneroid Sphygmomanometer

- › Shock-resistant according to DIN EN 81060-1:2012-08.
- › Shock-resistant from a height of 1 m (39.37 in).
- › Sturdy ABS plastic casing.
- › Metal valve base & Metal screw tube connection.
- › Ergonomically shaped spoon-typed handle made of stainless steel.
- › Linear aluminium scale Ø 63 mm (2.48 in), easy to read.
- › Precision air release valve with fine adjustment, wear-free.



## e-mega®

### State of the art aneroid palm style sphygmomanometer

- › Fast inflation of the cuff due to new ergonomic spoon design.
- › Lifelong precision due to almost non-aging precision movement, with specially tempered copper-beryllium diaphragm for pressure-loading capacity up to 600 mmHg.
- › Disinfectable and washable one-piece cuffs in different sizes.
- › Comfort – air release valve, wearfree, with fine adjustment.

### Precise self-measurement with stethoscope

- › Suitable for persons with heart rhythm disorders.
- › Stethoscope chest-piece permanently attached to the cuff.
- › Large scale Ø 63 mm (2.48 in), easy to read.
- › Fast inflation of the cuff due to newly optimized spoon design.
- › Precise and wear free air release valve, with fine adjustment

## exacta®

### Classic aneroid sphygmomanometer (Two-tube model)

- › Metal casing, black.
- › Stainless metal clamp for hooking the manometer to the cuff.
- › Latex bulb with precision air-release valve, fine regulation and non-wearing.
- › Linear aluminium scale Ø 49 mm (1.92 in), easy to read.



### Palm-style Aneroid Sphygmomanometer

- › Specially tempered copper-beryllium diaphragm, almost non-aging.
- › Precision air release valve with fine adjustment, wear-free.
- › Microfilter protects air release valve and measuring system.
- › Linear aluminium scale Ø 64 mm (2.52 in), easy to read.
- › Suitable for left and right-handed persons.
- › **Options:** Colors - Slate gray, Blue, Green, Saffron.



### Exact self-monitoring with stethoscope

- › Ergonomic design in attractive colors.
- › Suitable for persons with heart rhythm disorders.
- › Stethoscope chest-piece permanently attached to the cuff.
- › Air-release by simple finger-tip control, fine regulation.



### sphygmotensiophone

#### Aneroid two-tube sphygmomanometer

- › High-quality cotton cuff finished in artificial leather with a metal clip to pull through the cuff.
- › Sizes available for adults, children and infants.
- › Latex bulb with precision air-release valve, fine regulation and non-wearing.
- › Linear aluminium scale Ø 49 mm (1.92 in), easy to read.

### babyphon®

#### Blood pressure monitor designed for children and babies

- › Bear imprint on the cuff for children, infants and new-born children.
- › Choice of either chrome, sturdy plastic / metal or shock-protecting polycarbonate casing.
- › Fast inflation of the cuff due to new ergonomic spoon design.
- › Tempered copper-beryllium diaphragm for pressure-loading capacity up to 600 mmHg.
- › Micro-filter protects pressure-release valve and measurement system.
- › Linear scale, up to 300 mmHg.
- › Maximum error tolerance of + / - 3mmHg.



# Stethoscopes

## Perfect Auscultation through Research and Development

### Riester Stethoscopes 2.0 – simply better hearing!

60 years of experience in developing and manufacturing of stethoscopes, paired with the innovation power and the uncompromisingly high standard of quality of a globally successful company allowed Riester to set a new standard for stethoscopes.

The completely new constructed cardiophon 2.0 and duplex® 2.0 assign nothing less than a quantum leap in the quality of acoustics. Listen for yourself...

## cardiophon 2.0

### Cardiology Stethoscope

- › Innovative acoustic system with extraordinary auscultation for all frequency ranges.
- › High-precision double chest-piece made of stainless steel.
- › Bilateral special membrane for precise acoustics, Ø 44 mm and 32 mm (1.73 in and 1.26 in).
- › Anatomically shaped binaural with internal multiple spring for adjusting the contact pressure.
- › Extra-soft, replaceable and pivotable ear-tips for perfect sealing at the ear canal and enhanced wear comfort.
- › Y-tube with separate sound-conducting pathways for the left and right ear with particularly good audio-transmission.
- › Total length: 71 cm (27.95 in).
- › Weight: 204 g (0.45 lb).
- › Latex-free.
- › **Options:** Tubing colors - Black, Blue, Burgundy.

## duplex® 2.0

### Numerous innovative detail solutions

duplex®2.0 Stethoscopes from Riester are distinguished by outstanding acoustic performance. They have been completely new constructed to meet the challenges of daily diagnostic practice. The tube stethoscopes are available the special designs for auscultation of adults, children/babies and new-borns.

- › Innovative acoustic system with extraordinary auscultation for all frequency ranges.
- › Precision double chest-piece made of stainless steel or aluminium with special membrane for precise acoustics, Ø 44 mm (1.73 in).
- › Anatomically shaped binaural with internal multiple spring for adjusting the contact pressure.
- › Extra-soft, replaceable and pivotable ear-tips for perfect sealing at the ear canal.
- › Total length: 74 cm (29.13 in).
- › Weight: 151 g / 0.33 lb (stainless steel), 97 g / 0.21 lb (aluminium).
- › Latex-free.
- › **Options:** Stainless steel tubing colors - Black, White, Blue, Red, Green.  
Aluminium tubing colors - Black, White, Blue, Red, Green, Black edition.



## duplex<sup>®</sup> 2.0 baby

### High acoustic performance for babies and children

- > Precision double chest-piece made of stainless steel.
- > Special membrane for precise acoustics, Ø 32 mm (1.26 in), with novel non-chill rims for improved adaptation on the skin.
- > Bell: Ø 23.5 mm (0.93 in).
- > Total length: 69 cm (27.17 in).
- > Weight: 124 g (0.27 lb).
- > Latex-free.
- > **Options:** Tubing colors - Black, White, Red, Green.

## duplex<sup>®</sup> 2.0 neonatal

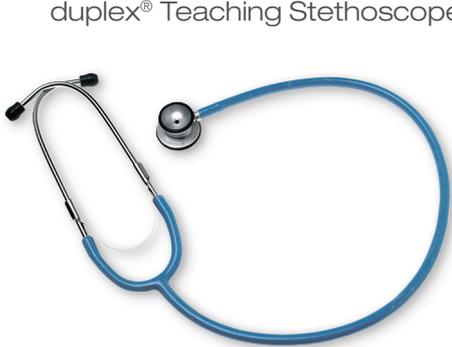
### Perfect auscultation of new-borns and babies

- > Extra-fine precision double chest-piece made of stainless steel.
- > Special membrane for precise acoustics, Ø 24 mm (0.94 in), with novel non-chill rims for improved adaptation on the skin.
- > Bell: Ø 17.5mm (0.69 in).
- > Total length: 69 cm (27.17 in).
- > Weight: 105 g / 0.23 lb.
- > Latex-free.
- > **Options:** Tubing colors - Black, White, Red, Green.

## duplex<sup>®</sup>

### Outstanding acoustic performance for the daily challenges

- > Excellent acoustics in all relevant frequency ranges.
- > Double-headed chest-piece available in two types: chromium-plated brass or specially lightweight aluminium, galvanized.
- > Special membrane for perfect auscultation, Ø 48 mm (1.89 inch), with particularly flat and soft non-chill rims for improved adaptation on the skin.
- > Bell, Ø 36 mm (1.42 inch).
- > Chromium-plated binaural, which can be adjusted by turning. With external spring.
- > Soft, replaceable ear-tips with metal screw thread for comfortable and effective sealing of the external auditory canal.
- > Strong Y-tube made of PVC to shield against undesired stray sounds.
- > Latex-free.
- > Overall length: 77 cm (30.32 in).
- > duplex<sup>®</sup> is supplied with a pair of replacement ear-tips and a replacement membrane.
- > **Options:** Tubing colors - Black, Slate grey, Blue, Green
- > Also available as duplex<sup>®</sup> baby and duplex<sup>®</sup> neonatal, both aluminium, Color: Blue.
- > duplex<sup>®</sup> Teaching Stethoscope, Color: Slate grey.



duplex<sup>®</sup> baby



duplex<sup>®</sup> neonatal



duplex<sup>®</sup> Teaching Stethoscope

## anestophon

### Excellent acoustics in all relevant frequency ranges

- › Ergonomic handling thanks to novel design: extra-ordinarily flat aluminium chest-piece without edges, easy to push under the cuff when measuring blood pressure. Latex-free.
- › Special membrane, Ø 48 mm (1.89 in), with particularly flat and soft non-chill rims for improved adaptation on the skin.
- › Matt chromium-plated binaural, which can be adjusted by turning.
- › Soft, replaceable ear-tips with metal screw thread for comfortable and effective sealing of the external auditory canal.
- › Reinforced Y-tube made of PVC to shield against disturbing stray sounds.
- › Overall length: 77 cm (30.32 in).
- › The anestophon is supplied in a cardboard display box with a pair of replacement ear-tips and a replacement membrane.
- › **Options:** Tubing colors - Black, Slate grey, Blue.



## tristar

### Excellent acoustics in all application areas

- › Double chest pieces for duplex<sup>®</sup>, duplex<sup>®</sup> baby and duplex<sup>®</sup> neonatal made of aluminium with rapid-exchange connector. Latex-free.
- › Special membranes, Ø 48 mm (1.89 in), 36 mm (1.42 in), 28 mm (1.10 in), for first-class acoustics.
- › Particularly flat and soft non-chill rims for improved adaptation on the skin.
- › Bells Ø 36 mm (1.42 in), 28 mm (1.10 in), 24 mm (0.95 in).
- › Optimal sealing of the external auditory canal with soft, replaceable ear-tips with metal screw thread.
- › Particularly strong Y-tube made of PVC for optimal acoustics to shield against undesired stray sounds.
- › Overall length: 79 cm (31.10 in), 78.5 cm (30.91 in), 78 cm (30.71 in).
- › tristar<sup>®</sup> is supplied with two pairs of replacement ear-tips, a replacement membrane each and a name plate.

## ri-rap

### Flexible range of application areas

- › Strong double tube with separate sound-conducting pathways for the left and right ears guarantees extraordinary audioconductivity. Latex-free.
- › Alternatively, with 40 cm (15.75 in) or 80 cm (31.50 in) tube length.
- › Heavy chromium-plated double chest-piece with two membrane sides, Ø 45 mm (1.77 in) and 32 mm (1.26 in).
- › Both membrane sides can be simply and quickly refitted with the enclosed bells Ø 33.5 mm (1.32 in), 27.3 mm (1.08 in), 20.3 mm (0.80 in) with the screw connections.
- › Replacement parts box: three bells, each with a transparent membrane, two pairs of replacement ear-tips.
- › ri-rap supplied complete with replacement parts in an attractive cardboard display box with foam insert.
- › **Options:** Tubing colors - Black, Blue.



## pinard

### Auscultate the heart sounds of the embryo in the womb

- › The shape of the bell provides the particularly good acoustics.
- › Available in two models: sturdy plastic or particularly lightweight, polished aluminium.
- › Supplied in a cardboard box.



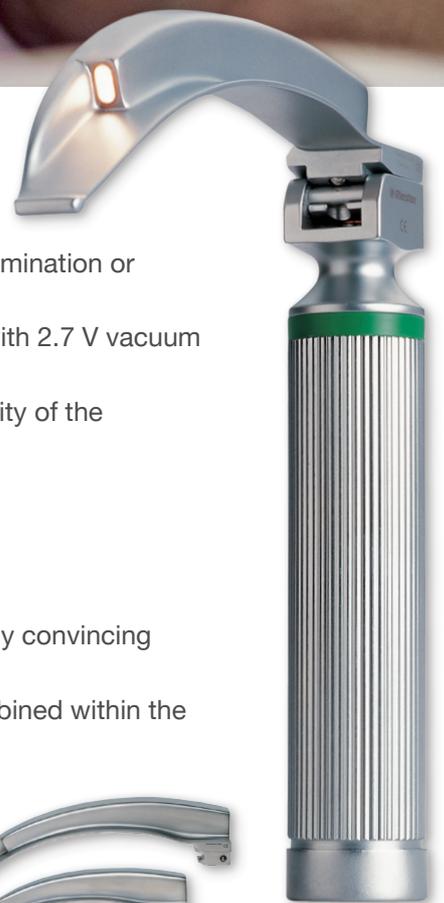
# LARYNGOSCOPES

## EXCEPTIONAL LONGEVITY

### Laryngoscopes

Laryngoscopes with unique quality features.

- > Laryngoscopes available with integrated F.O. illumination, removable F.O. illumination or standard-illumination.
- > Excellent LED 3.5 V / 2.5 V, XL 3.5 V / 2.5 V illumination and fiber optics or with 2.7 V vacuum illumination.
- > Macintosh und Miller blades with innovative blade design for optimum visibility of the epiglottis and vocal cords.
- > Simple insertion of the endotracheal tube.
- > Large choice of power sources:
  - manoeuvrable and sturdy battery handles and
  - charging bases
- > Wide selection of laryngoscope sets for pediatrics and adults with particularly convincing cost effectiveness.
- > All handles and blades are supplied singly and each can be individually combined within the fiber optics or standard model ranges.



ri-standard



ri-model F.O.



ri-integral F.O.



ri-dispo



ri-integral flex F.O.

# Pulse Oximeter

## ri-fox N

### Pulse Oximeter

- › Small, mobile device with integrated sensor.
- › Simple and fast measurement by attaching to the finger.
- › Bright LED illumination for good visibility with visual pulse indicator.
- › LED-display of %SpO<sub>2</sub>, perfusion and pulse.
- › Battery status indication.
- › Battery lifetime of approx. 30 hours (in continuous operation).
- › Standard AAA-batteries included, simple to change.
- › Automatic switch-off after 8 seconds.
- › 30 months warranty.



# Blood Stasis Products

## komprimeter

### Classic device to restrict blood circulation during amputations

- › High precision, durable manometer for accurate pressure monitoring up to 700 mmHg.
- › Sturdy metal pump to produce pressure. Latex-free.
- › Air can be released from the cuff via finely regulated, non-ageing air-release valve on the manometer.
- › Includes upper arm cuff 57 cm (22.44 in) x 9 cm (3.54 in) and thigh cuff 96 cm (37.80 in) x 13 cm (5.12 in).
- › Optional extra: child's cuff 28 cm (11.02 in) x 6 cm (2.36 in).
- › All cuffs are made of a material which can be washed and disinfected.



## ri-clip®

### The perfect vein compressor for blood extraction

- › Simple blood stasis by tightening the strap.
- › Simple release at the clip.
- › Avoids unpleasant catching of small hairs.
- › Attractive design. Latex-free.
- › Color matching other Riester products.
- › Hygienic, can be disinfected with conventional disinfectants or autoclaved at 120 °C / 1 bar.



# Pressure Infusor

## metpak

### Aneroid pressure infusion device with full range of cuffs

- › Pressure cuffs with manometer for producing pressure.
- › For solutions or blood bags from 500 ml, 1.000 ml, 3.000 ml or 5.000 ml.
- › Sturdy cotton cuff in blue, with suspension loop for infusion stands, washable up to 60 °C.
- › Precise reading of the level in the bag thanks to a transparent net on the cuff.
- › Chromium-plated manometer Ø 49 mm (1.93 in) with easy-to-read aluminium scale up to 300 mmHg.
- › Specially hardened copper-beryllium membrane.
- › No zero-point setting required.
- › Latex-free pad resistant to pressure and Latex-free inflation bulb.
- › metpak® is also available latex-free.



# Tuning Forks

## Tuning Forks

### Precise and long-lasting

- › Highest quality materials: nickel steel or aluminium.
- › Large selection of different frequencies: from 64 Hz to 4096 Hz.
- › Tuning forks with and without clamps.
- › Tuning forks with and without base for different requirements in everyday hospital and office practice.



## Tuning Forks set

### Precise and long-lasting

- › Set I 8 tuning forks made of steel in wooden case.
- › Set II 5 tuning forks made of steel in plastic case.
- › Set III 5 tuning forks made of aluminium in plastic case.

# Percussion Hammers

## buck hammer

### Reliable and sturdy percussion hammers in Riester quality

Reliability and stability distinguish all of these classical percussion hammers for the exact testing of reflexes. From the simplest model to the top-quality buck hammer.



# Veterinary Instruments



## vet de luxe I

### Veterinary E.N.T./ophthalmic instrument sets

- › Selection of 2.5 V and 3.5 V XL xenon illumination technology.
- › All-metal **ri-scope**<sup>®</sup> operation otoscope for a long service life, open design for unhindered use during examination and operation.
- › Swivel lens with 2.5 - fold magnification.
- › **ri-scope**<sup>®</sup>L ophthalmoscope with glass-fiber reinforced casing, particularly sturdy, light-weight and durable.
- › Focusing wheel with corrective lenses from 0 to + 40 and 0 to - 35 diopters.
- › Easy-to-operate aperture hand-wheel with semi-circle, small/medium/large circle fixation star, slit and red-free filter with contrast-enhancing effect.

## **ri-scope**<sup>®</sup> operation otoscope

### Operation otoscope (veterinary)

- › Choice of XL 3.5 V xenon lamp or HL 2.5 V halogen lamp.
- › Swivel lens with 2.5 - fold magnification.
- › Moveable, slotted speculum holder can be locked in any position.
- › Open design for unhindered use during examination and operation.
- › Bayonet fitting for fast and secure attachment to the handle.
- › All-metal operation otoscope for long service life.
- › Fast exchange of lamp at the front of the otoscope.



4 mm



5 mm



6 mm



7.5 mm



9.4 mm



## Reusable specula

### Reusable metal speculas for veterinary use

- › High quality model made of chrome-plated, corrosion-free metal.
- › Disinfection and sterilisation can be carried out in the normal way.
- › Matt inner surfaces reduce the risk of reflections during examinations.
- › Slotted models: Optimum instrument guide provided by special edges on opening



A **Halma** company

Riester, Developing the highest quality diagnostic medical devices, since 1948!  
In 2007 Riester was acquired by Halma plc, transforming Riester from a family-owned business into being part of an international group of companies. At Riester, we have a no compromise approach, and pride ourselves on reliability, from research and development, to production of the highest standards.

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**For the complete line of Riester products, please visit [riester.de](http://riester.de)**

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