

## MOBILE GEMSTONE LABORATORIES

One task within gemmology is to identify and analyse gemstones. The composition, authenticity, quality, origin and the treatment condition of the stones are examined with the help of high-quality analysis equipment. This frequently requires an on-the-spot inspection and calls for equipment that is mobile and ready for immediate use at any time. Experts can create assessments, analyses and gemstone valuations with the necessary precision instruments of our portable laboratories, regardless of location. They are also suitable for gemmological expeditions.



### Small mobile gemstone laboratory

The KA41KRS is a gemmological test laboratory, equipped with all standard instruments.

- Shock-resistant aluminium case
- Microscope KSW4000-K-W
- Microscope optics with 10x and 30x magnification (expandable to 20x and 60x)
- Vertical and horizontal alignment possible
- Dark-field lighting
- Gooseneck light guide for incident and transmitted light (incident light for microscope)
- Cuvette table with polarisation device and translucent glass
- Plane-parallel, polished glass cuvette
- Cold light source for incident and transmitted light
- Gemstone refractometer with sodium filter, polarisation filter and Anderson solution (refractive index: 1.79 nD)
- Hand-held spectroscope HS1501
- Polariscopes
- Dichroscope HD10
- UV hand lamp
- Daylight lamp
- Sorting board
- Bottle for immersion oil
- Mains adapter 100-240 V, usable worldwide

ORDER NUMBER

**KA41KRS**

## AREA OF APPLICATION

A multiplicity of values can be determined for gemstones: These are replacement, insurance, wholesale and liquidation values. These values are often necessary in the context of private, legal and insurance transactions.

Gemmological expert advice is also frequently offered at trade fairs and auctions.

Mobile gemmological work is also necessary when experts want to conduct analyses directly at sites e.g. during geological excursions.



### Large mobile gemstone laboratory

The KA52KRS is a fully equipped, portable laboratory with precision optics, packed in a shock-resistant Rimowa aluminium case.

- Shock resistant aluminium case (Rimowa case with wheels)
- Stereo microscope MSZ5000 with zoom and German precision optics
- Microscope optics with magnification 7x – 45x (expandable to 180x)
- Intuitive touch screen
- Vertical and horizontal alignment possible
- Dark-field lighting
- Gooseneck light guide for incident and transmitted light
- Cuvette table with polarisation device and translucent glass
- Plane-parallel, polished glass cuvette
- Object pliers for set and unset stones
- LED lighting for incident and transmitted light
- Gemstone refractometer with sodium filter and Anderson solution (refractive index 1.79 nD)
- Hand-held spectroscope HS1504 with spectroscope holder and scale lighting
- Polariscope with analyser, polariser and conoscope lens
- Dichroscope HD10
- UV cabinet with short and long wave UV lamp
- Mains adapter 100-240 V, battery usable worldwide (running time approx. 8 hours)

ORDER NUMBER

**KA52KRS**



## A.KRÜSS OPTRONIC – QUALITY INSTRUMENTS FOR GEMMOLOGY



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A.KRÜSS Optronic has more than 220 years of experience in the development and manufacture of measuring devices. We manufacture our optoelectronic measuring and analysis instruments in Hamburg and benefit from a wealth of experience in a wide range of industries. In addition to the production of measuring instruments for laboratory analysis, we have been manufacturing and selling gemmological instruments used for the examination of gemstones for decades.

It has always been our ambition to be more than just a manufacturer, besides a vast array of services we also provide plenty of information on the basics, use and applications for inspecting gemstones. With a high standard of quality in production and development, the satisfaction of our customers has always been our main focus.

Gemmological measuring instruments from A.KRÜSS Optronic conform to international standards for investigations and measurements in the field of gemstone science. We stock the entire range of basic gemmological equipment such as refractometers, polariscopes, dichroscopes, spectroscopes, filters, UV lamps, loupes, tweezers, diamond testing devices as well as scientific instruments such as high-resolution precision microscopes and fully equipped mobile travel laboratories. Feel free to take a look at our web shop to find out more (conveniently scan the QR code shown opposite).

