



SMART TOOLS

SMART SCIENCE



FOREFRONT- TECHNOLOGIES & PRODUCTS

- 🔗 We develop and produce innovative equipment and disposables for general laboratory use in a wide range of chemical, biotechnological and medical-pharmaceutical applications.
- 🔗 We create novel techniques and product solutions to raise efficiency of work flows in modern laboratories.
- 🔗 Our innovative tools and instruments provide a unique spectrum of novel methodologies and techniques to our costumers.

YOUR CELLS ON VACATION

The Cellware of Hektros provides advanced cell culture tools to simplify and speed up forefront methodologies *in vitro*: Live Cell Imaging.

- ✂ Hektros' Plug & Play solutions are compatible with basic lab equipment; they are instantly ready and easy to use.
- ✂ Hektros supplies innovative products of highest quality, whereby the design is striped to functional essentials and it deliberately dispenses complex control units.
- ✂ Boost your productivity using smart Cellware products and gain access to affordable Live Cell Imaging!





The versatile cell incubator at the microscope stage

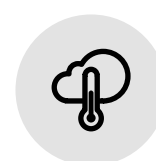
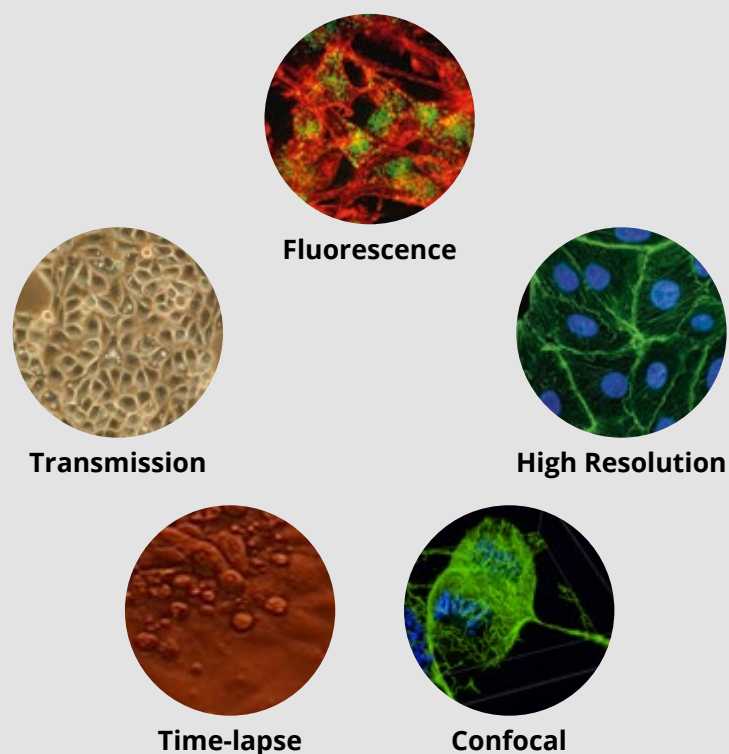


reddot winner 2020

Spotlight your Relaxed Cells!

Hi5 is a versatile and handy cell incubator - your best choice for long-term cell examinations directly on the stage of inverted microscopes.

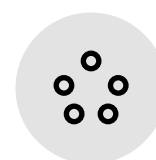
- Hi5 incubators are especially designed to provide a comfortable environment for your demanding cells. It can be used for various types of microscopic techniques: **Fluorescence, Time-lapse, High Resolution, Transmission and Confocal**.
- Hi5 incubators dispose of **five conical seats** to mount accurately fitting single-use **Hi5i culture wells**. The unique design ensures **exceptional temperature homogeneity** to keep your cells happy during your long-term experiments.
- Even **exchange of culture media** or **addition of sterile** reagents can be carried out easily **via septum-shielded ports** directly on the microscope stage!
- With our Hi5 incubator you can focus on your complex experiments – not on the hardware!



Exceptional temperature homogeneity at minimal gas-consumption rates



Stable culture conditions are maintained over days or even weeks



Exchange of culture media and addition of sterile reagents via septum-shielded ports



Perfectly equilibrated within a set-up time of less than 2 minutes



Magnifications up to 100-fold



As a special feature, Hi5 incubators can be connected to analytical instruments like HPLC / GC

Specifications

Materials:

Body material:
Anodised aluminium or Nickel-plated aluminium

Materials wetted with medium:
Polystyrene and borosilicate glass (see Hi5i)

Materials wetted with humidified gas:
Anodised aluminium or Nickel-plated aluminium, PTFE, PEEK, Polyoxymethylene, borosilicate glass

Sealings:
Silicone, Viton

Optical glass:
Borosilicate glass: Borofloat 33

Weight:
1,315 kg

Behaviour:

Typical heating-up time:
1 to 10 minutes (1 min when pre-heated)

Typical time to temperature equilibrium with the culture-medium:
2 to 10 minutes (2 min when pre-cultured and processed quickly)

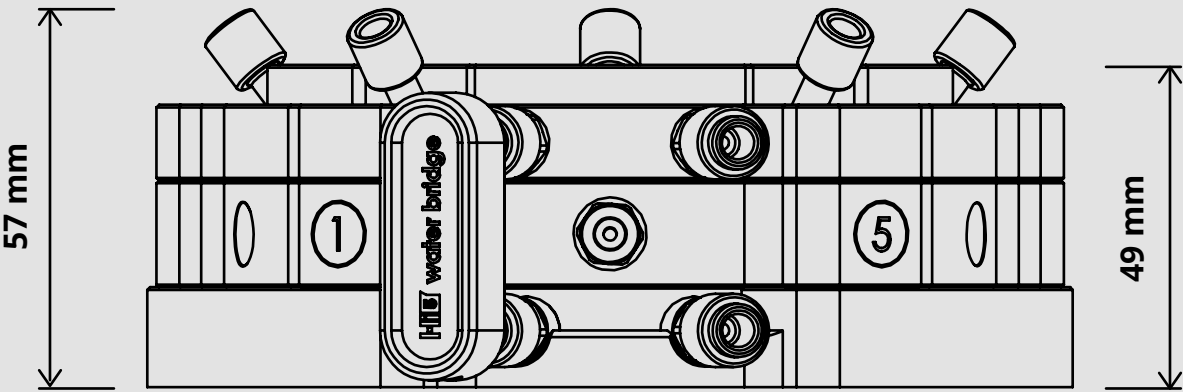
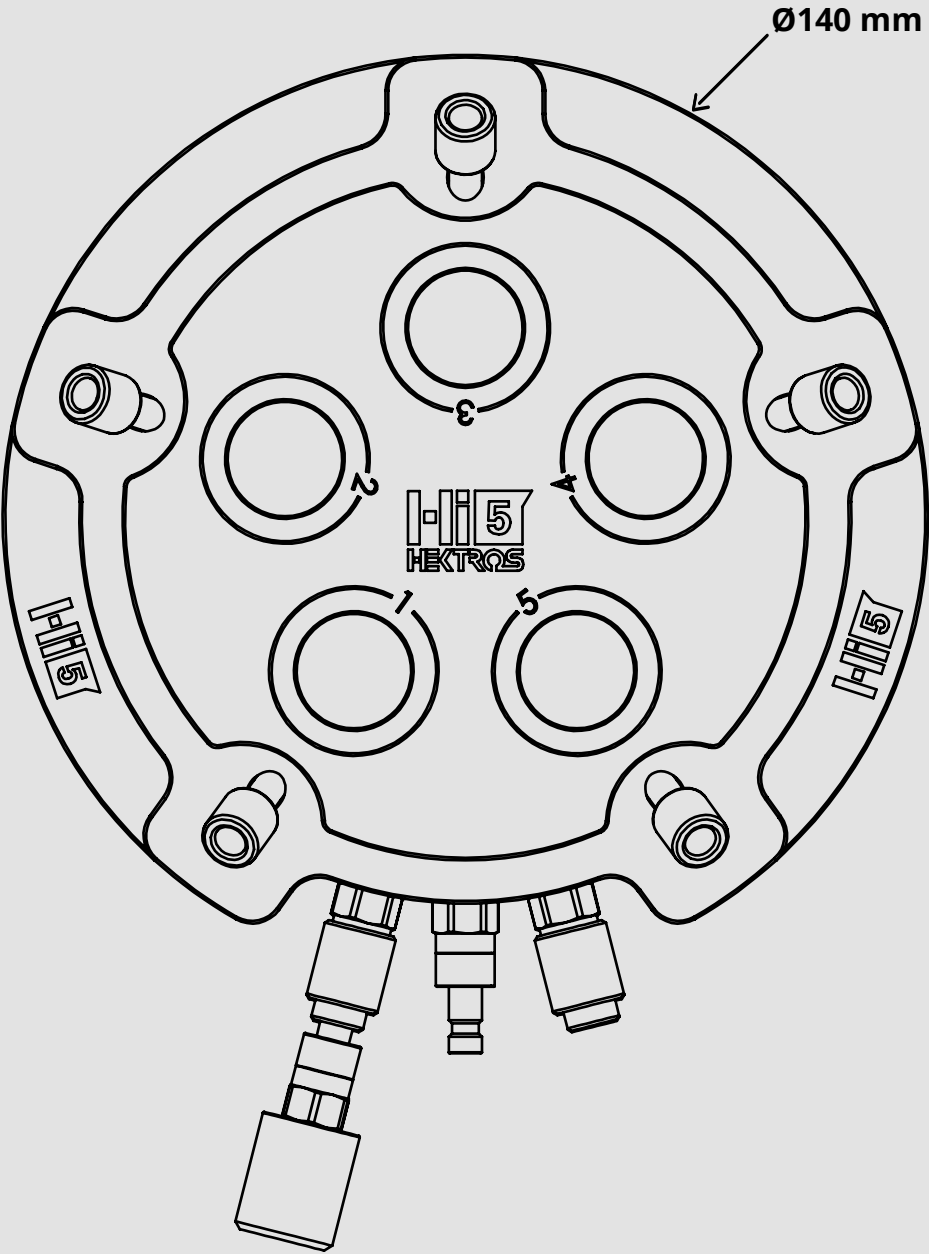
Typical time to CO2-equilibrium:
1 to 10 minutes (2 min when pre-cultured)

Typical gas-consumption:
14.5 l/day

Autoclavable:
Yes

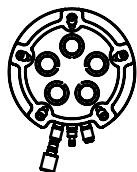
Inside the box:

- 1x Hi5
- 2x Water-tubing (temperature control)
- 2x Needle for feeding and sampling
- 1x Biospir
- 2x Gas humidification insert
- 1x Gas-tubing
- 5x Feeding-port and caps



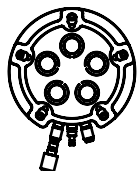
Configurations

Anodised



Hi5 Set

11,000.00€



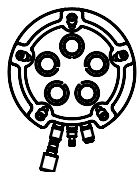
Hi5 Set

+



Heating Circulator
for int. applications

12,000.00€



Hi5 Set

+



Heating Circulator for
use with ext. Sensor

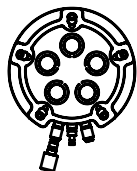
+



PT-100 Sensor

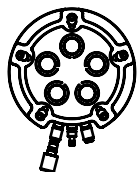
14,000.00€

Nickel-plated



Hi5 Set

12,000.00€



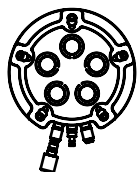
Hi5 Set

+



Heating Circulator
for int. applications

13,000.00€



Hi5 Set

+



Heating Circulator for
use with ext. Sensor

+



PT-100 Sensor

15,000.00€



reddot winner 2020

YEAR

2020

CATEGORY

Medical devices and
medical technology



The Hektros Hi5i cell-culture wells were developed to provide optimal cultivation conditions as well as best optical properties for various microscopy techniques.

- ✖ The Hi5i cell-culture wells are made of **polystyrene walls** and a **borosilicate glass bottom**
- ✖ The glass bottoms with a **thickness of 160 µm** provide best optical properties and are suitable for high-resolution microscopy techniques and **magnifications up to 100 fold**
- ✖ The Hi5i cell-culture wells with glass insert are **produced without additional chemicals** like glue through integration into the injection molding process
- ✖ To meet the needs of various microscopy techniques, the Hi5i cell-culture wells are **available fully transparent** or with **white walls** especially for luminescence and with **black walls** for fluorescence imaging
- ✖ All Hi5i wells are **packed sterile** and seated within a polystyrene carrier. They are protected by a HiCult cell-culture dish and can therefore be **easily pre-cultivated in a standard CO2-incubator** without the need to set up the Hi5 incubator
- ✖ These features make the Hi5i-wells not only the perfect insert for the Hi5 incubator, but also convenient and **high-quality cell-culture wells for general microscopy applications**



Optimal cultivation conditions



Best optical properties through 160 µm glass bottom



No additional chemicals like glue added



Magnifications up to 100-fold



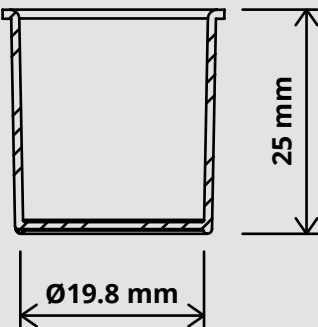
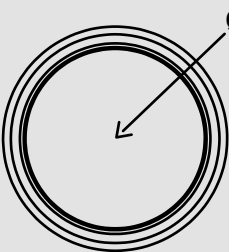
Available for various microscopy techniques e.g. fluorescence imaging



Convenient pre-cultivation in standard CO2-incubators

Specifications

Hi5 standard wells with polystyrene bottom



Wall material:
Polystyrene transparent

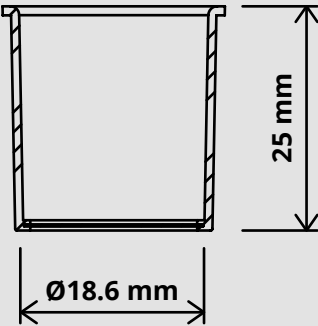
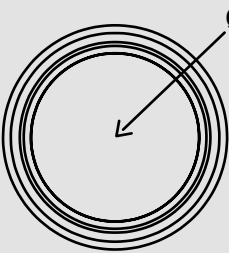
Bottom material:
Polystyrene transparent

Surface coating / -treatment:
Plasma treated

Non-pyrogenic:
Yes

Sterile:
Yes (UNI EN ISO 11137-1/2/3: SAL 10)

Hi5 wells with glass bottom



Wall material:
Polystyrene transparent / black / white

Bottom material:
Borosilicate glass

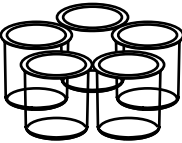
Surface coating / -treatment:
No

Non-pyrogenic:
Yes

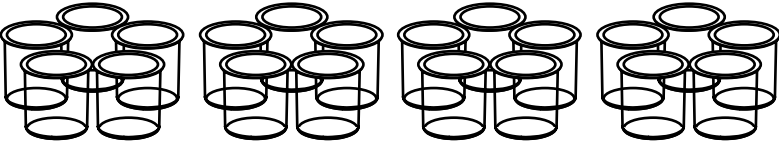
Sterile:
Yes (UNI EN ISO 11137-1/2/3: SAL 10)

Packaging units

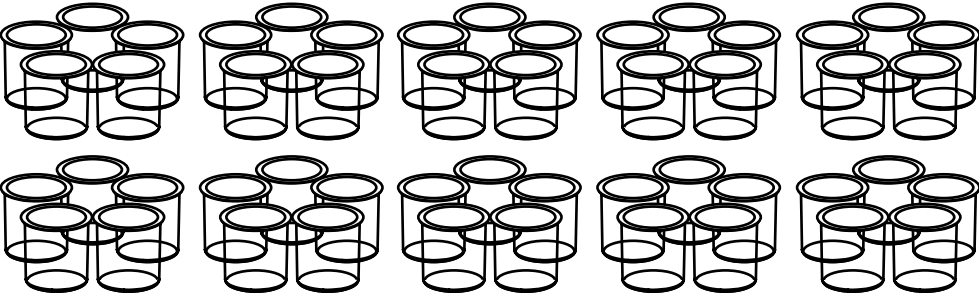
Cell-culture wells without glass insert



1 / set
20.00€



4 / set
70.00€

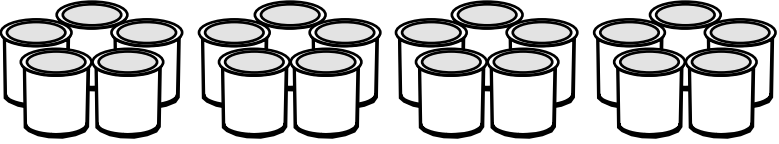


10 / set
155.00€

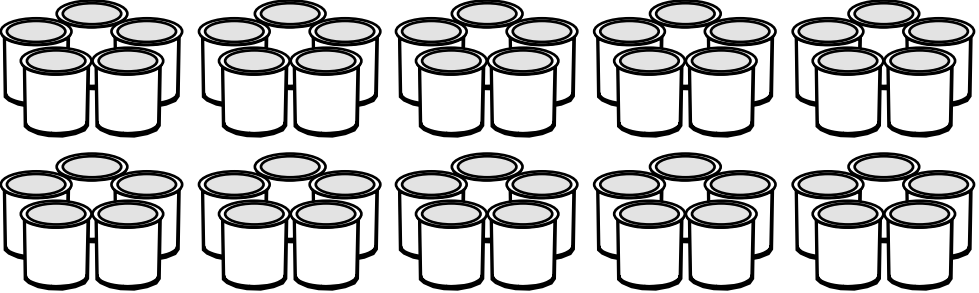
Cell-culture wells with glass insert



1 / set
25.00€



4 / set
80.00€



10 / set
180.00€

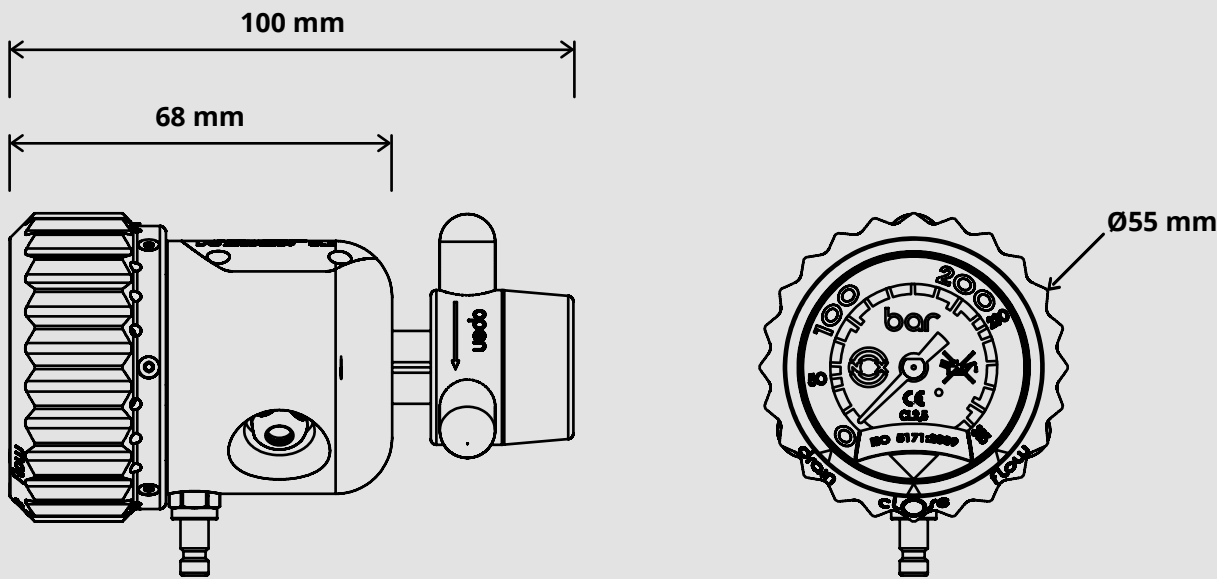
BioSpir

The Hektros BioSpir is a unique gas handling device, specially developed for gassing cell-cultures.

It combines a pressure-reducing valve with a calibrated fixed-flow regulator to provide a **constant gas flow of 10 ml/min**. The BioSpir was designed to meet the demands of the Hi5 Live Cell Imaging incubator as well as to provide a high-quality and easy-to-use gas valve for scientific applications.

- ✂ open/close to operate the valve
- ✂ drain position to quickly empty the valve before disconnecting
- ✂ no tools necessary for connecting or disconnecting

Specifications



Attention Pressure cylinder connection is country-specific!

Standard Bottle Connector:
Test gas UNc, cylinder connector (DIN M19x1,5 LH.)

Gas Mixture:
Air / Air +5% CO2 or similar gases

Standard:
ISO 2503:2009

Pressure relief valve:
7 bar




Input pressure:
P1 230bar

Output Connection:
Quick Coupling DN 2.5

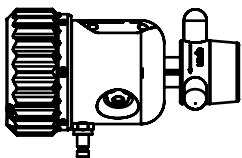
Class
cl.0

Body material:
Aluminium 7075 - Ni-Plated



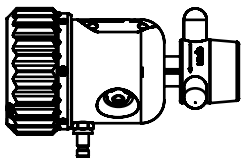
-  Precise two-piston pressure reducer valve
-  Pressure indicator (manometer) integrated into the housing
-  Developed and manufactured according to ISO 2503:2009

Configurations



10 ml/min

1.100,00€



Custom

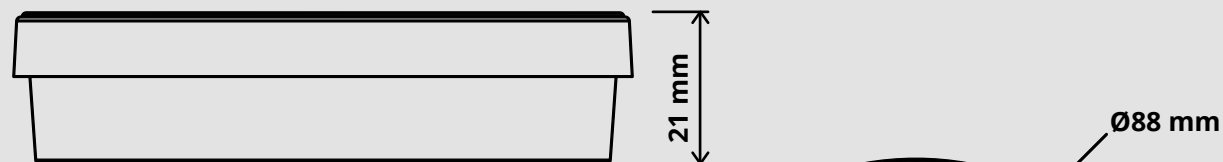
Price on demand

HiCULT

The Hektros HiCult dish was designed to meet the high requirements of cell culture in terms of attachment and proliferation.

- ✚ A key-feature of this product is the nearly perfect planarity of the surface to provide a more even distribution of the cells.
- ✚ In combination with a highly transparent polystyrene material the HiCult dish has superior optical properties for microscopic examinations.

Specifications



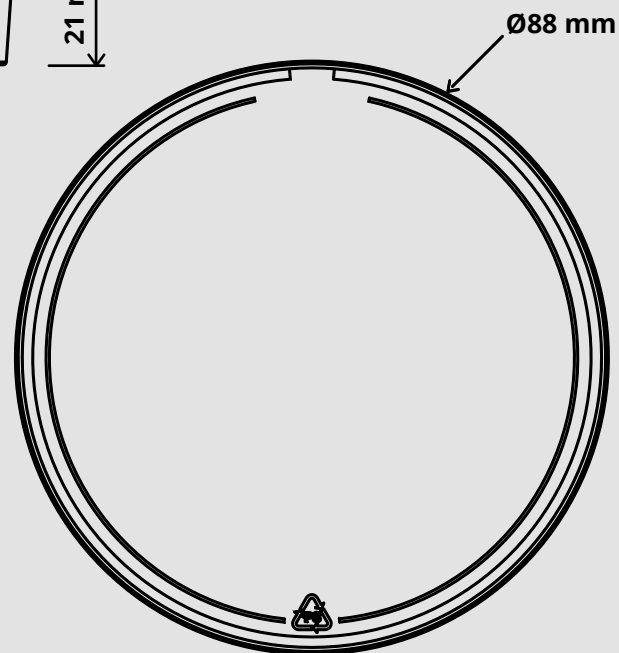
Material:
Polystyrene transparent

Sterile:
Yes (ISO 11137-1/2/3: SAL 10)

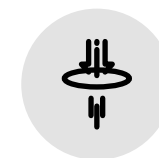
Non-pyrogenic:
Yes

Growth area:
50 cm²

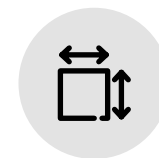
Surface coating / -treatment:
Plasma treated



Plasma treated growth surface



Best optical properties through highly transparent polystyrene

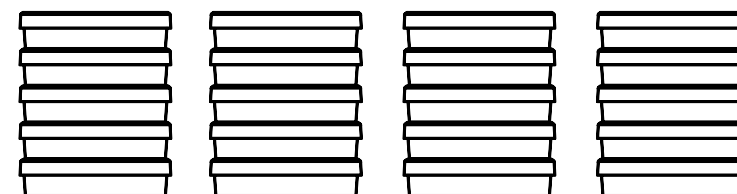


Highly planar surface for a very even distribution of the cells



Standardized growth area of 50 cm²

Packaging unit



20 / set
20.00€



**KEEP YOUR VISION
CLEAR**





Individual virus protection for you and your ocular!

🔬 **Protect yourself** easily from contaminations caused by viruses and microorganisms!

🔬 Cleaning of your sensitive microscope-oculars can cause scratching and blinding of the glass.

🔬 **Protect the oculars** of your precious microscopes!

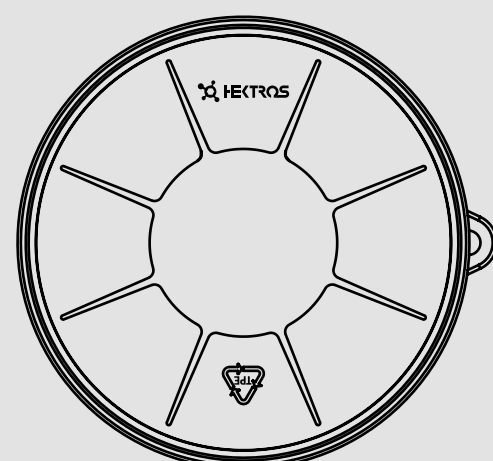
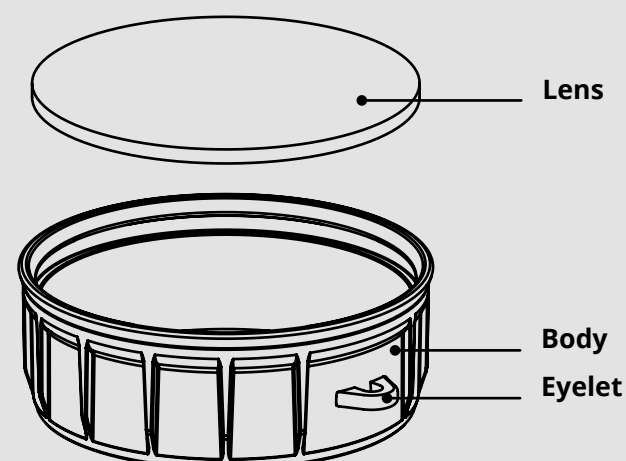
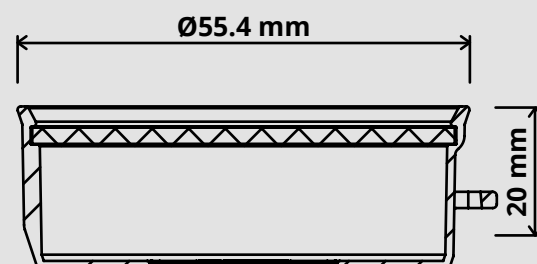


Specifications

Body material:
TPE-black 95ShoreA

Lens material:
Scratchresistant Polycarbonate

Compatibility:
Oculars with diameter <54 mm



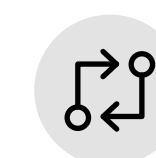
Protection from viruses and microorganisms



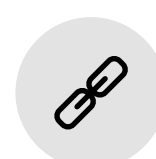
Protect the oculars of your precious microscopes!



Perfectly fits the ocular of your microscope



Manually exchangeable lens

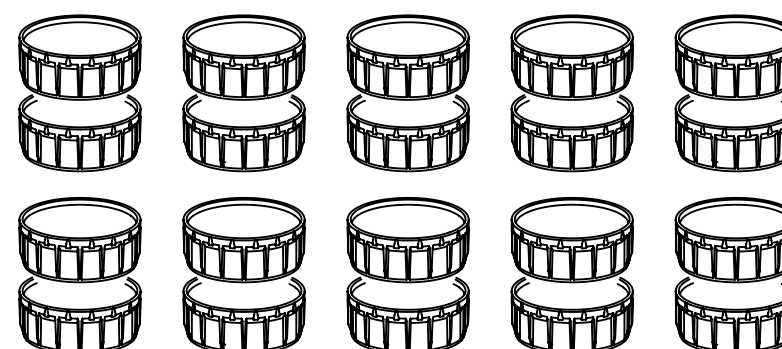


Easily connectable for the use with mono- or binocular



Easy cleaning

Packaging unit



10 / set
120.00€

ABOUT US

Hektros is engaged in the development and production of innovative disposables and equipment for general laboratory use in a wide range of chemical, biotechnological and medical-pharmaceutical applications. Together with the technologists of our partner Tratter Engineering, a proven expert in the processing of plastics, we do not follow the classical approach of competing with existing companies by offering modified or easily improved products. We rely on our high innovative power!

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Hermann Troger
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Sales Manager



Simon Tratter
Graphic Designer

ENVIRONMENTAL

Contributing to the well-being of the planet and its ecosystems is a goal that we pursue with great commitment.

We know that every human activity has an impact on the planet and its ecosystems. For this reason, we strive to make all our activities sustainable and thus, provide our ecological contribution to the planet's well-being.



Find out what we do to improve our environmental balance
Tratter Engineering GmbH

