

**SIMPLY
SEE *& work*
BETTER**

**New
Models
Available!!**



**EYE
STRAIN?**

INSPECTION MISTAKES?

REJECT?

Version: 2025 11

**We have the right magnifiers
to improve your vision and the
right tools to make you work better.**

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LICO Mechatronic Kft. H-2030 Erd
www.lico.hu**

LICO®
www.eurolupe.com

Simply See Better!

*& work
better*



	Page
Advantages LICO Magnifiers	4
Why LICO Magnifiers	5
Overview LICO Magnifiers	6
The BIG EYE2 in Blue	7
The BIG EYE2 in Ivory	8
The BIG EYE with daylight LED	9
The BIG EYE2 with UV Light	10
The BIG EYE2 with UV & White Hybrid Light	11
The BIG EYE2 MultiWhite LED	12
The BIG EYE2 with Multicolor Light	13
Head-Joint & Good to Know	14
Magnifier Fixtures	15
Spare Parts	16
GreenLite LED Magnifiers	18
GreenLite UV Magnifier	21
Original Bonkote Flux-Pen	22
Bonkote Tip Cleaner	27
Spirig Desoldering Braid	28
Original Menda Dispenser	30
Original Carousell Component Tray	32
Otsuka Magnifiers	33

*Inspect simply BETTER, see things
you might not have seen before.*

Our Customers using LICO Magnifiers achieve individually - the best possible inspection yield resulting in the highest possible reject of insufficient parts - or end up in a simply better and faster assembling work by improved eye sight vision.

Our point of view: „To see better means to work better“

This Definition* reflects mostly in the business success of our customers. Better inspection results mean less inadequate or faulty parts are going to the next production step or even to their customers. (*own definition) Such reduces cost and it helps to sort out insufficient parts qualitatively better and faster to come as close as to a requested 100% inspection yield. And 100% product quality of our customers results in higher customer satisfaction of their customers which very often assures the ongoing and often additionally new business.

Fatigue-free Inspection

by our ingenious combination of Lens and Light, a best possible fatigue free use it is made available for users of LICO Magnifiers. Simply just a little reduction of light quality and or lens quality would immediately result in a reduced inspection success and it results also in considerably higher stress of eyes (and brains, because inspection is like watching permanently HD-movies, such can be very tiring for eyes and brains).

Due to that circumstances we offer to our understanding the best possible lens on the market and the best possible light on the market provide the best possible relief to the eyes of the user. From this we derive a higher user motivation which we assume certainly results in less hours of doctor's visits and less absence due to sickness leave.

Durability

Many users of LICO magnifiers are inspecting, repairing or manufacturing products with LICO Magnifiers 8 hours a day and 40, 80 or 120 hours a week and also many LICO magnifiers are found at transport systems, conveyors, handling and other mechanical equipment and machines.

Excellent Magnification

Choice of 3, 4 or 5 Diopters, and on BIG EYE2 with an additional 10 Diopter swing away lens

True Long-Life Product

You receive a true long life product preserved in a sturdy re-useable packaging.

LICO BIG EYE Magnifier have no build in expiry date.

Lowest Energy Consumption

at highest light production. Our Design leaves the power supply and the light source simply cool. Due to the perfect design of all parameters there is extremely little energy loss by heat radiation. The energy is used for producing light and not wasted for avoidable heat.

The Overall Performance

regarding: to be able to see better, the overall performance sums up of inspection yield, quality of illumination, durability, user motivation and eye protection, also resulting in a very short return-of-investment and extraordinary high life expectancy of the LICO magnifier. Plus the user satisfaction with our optical instruments is very very high which in return comes back positively to the company.

Sustainability

We build magnifiers since 1988. We build them in Europe and repair and upgrade even the oldest LICO BIG EYES. Typical upgrades are:

- Change from magnetic ballast to electronic ballast
- Implementation of a dimmer
- Modernize from fluorescent bulbs to LED bulbs

We stock all parts, even for the oldest LICO Magnifiers parts are available or being made to order, therefore we can bring even the oldest LICO magnifiers to state-of-the-art.

We do not use plastic parts or thin press-formed sheet metals parts in the structure of arm or joints. Therefore LICO Magnifiers are a prime investment into more than only a very long life expectancy.

Quality and Size of our Lenses

Our BIG EYE and BIG EYE2 lenses are extra large and made from optical crown-white glass. The lens is grinded and polished. BIG EYE2 3 Diopter lenses are within the viewing angle fully distortion free and allow a very convenient perspective with both eyes at the same time. Only such lenses assure the possibility for a fatigue free all day use. And yes, to our knowledge our optical glass lenses are the biggest on the market.

The Light, excellent illumination of the object

Absolute homogeneous and true daylight by proprietary LED technology, shadowfree, without remarkable heat radiation. The light intensity is fully dimmable. We assure true colors. There is no change of the color of the object, regardless if the built in LED light illumination is on or off.

The Arm

is a massive, quite versatile and well balanced full-metal construction, therefore the use is easy and life expectancy has build-in no expiry date.

ESD - Antistatic

Our full metal construction is conductive in itself by nature of the construction. Additionally the head itself is also grounded directly. There are no plastic arms or plastic joints which tend to receive and or store static charges. The blue paint additionally contains conductive metal oxides. The electrical connection by an appropriate ESD grounding box is highly recommended.

The Product & Visual Performance

We welcome user feedback and suggestions for improvements to create an even better use for the individual user.

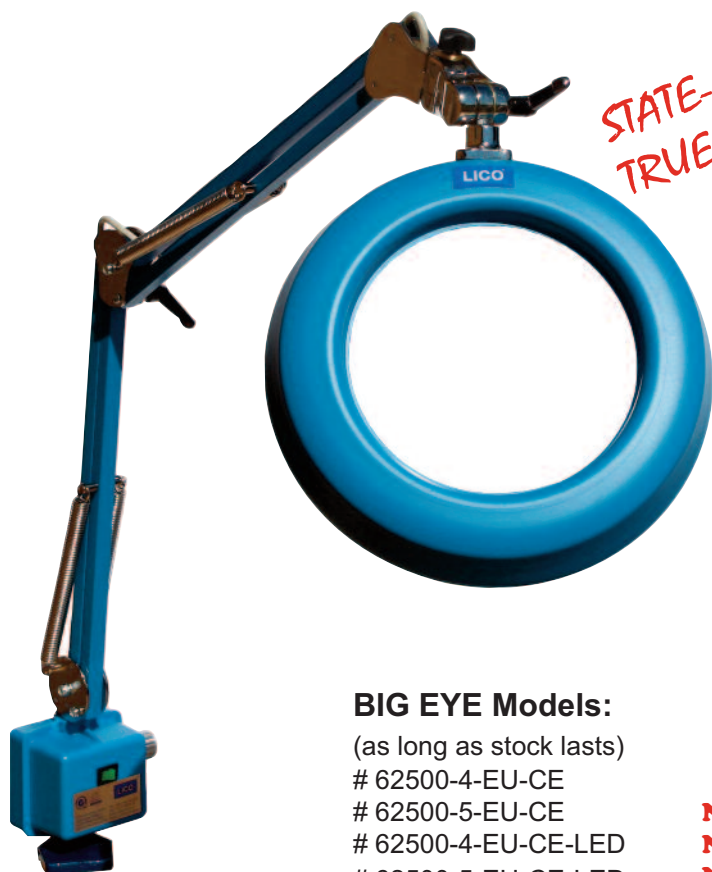
Made in

We develop and manufacture since 1988 in Europe which assures fast action, close service and always the requested state-of-the-art.

Why LICO Magnifiers?

We know, using LICO Magnifiers in many different technical areas our customers own an additional key for Quality improvement and extremely high yields of sorting-out-inspections at 100% controls. The staff of our customers simply can work better and inspect better which results in improved product quality and less internal and external returns which saves very much money day by day.

**STATE-OF-THE-ART
TRUE DAYLIGHT LED's!**



BIG EYE Models:

(as long as stock lasts)

- # 62500-4-EU-CE
- # 62500-5-EU-CE
- # 62500-4-EU-CE-LED
- # 62500-5-EU-CE-LED



Specification:

- 190mm Lens diameter
- Lens size approx. 300cm²
- 4 Diopters, Optical Glass
- Focal length approx 27cm (4Dio)
- Electronic HF power supply
- Dimmable illumination
- 34W Flickerfree and glare-free Illumination
- 2-pole illuminated Main switch
- Massive Arm construction
- Standard-Table clamp
- ESD-safe

Options:

- Color in Ivory
- 5 Diopter lens
- Protection cover
- Wall mount
- Table clamp
- Heavy Duty Table Clamp
- 17kg Base Plate

Spare parts:

- Bulb: 13362 Glarefree (1985-2011, „old, thick“ Version)
- Bulb: 13363 Glarefree (from 2012, „new, slim“ Version)



BIG EYE 2 Models:

- # 72400-3-EU-CE (as long as stock lasts)
- # 72400-3-EU-CE-AR (as long as stock lasts)
- # 72400-3-EU-CE-LED
- # 72400-3-EU-CE-LED-AR
- # 72400-3-EU-CE-LED-UV
- # 72400-3-EU-CE-LED-MC
- NEW!** # 72400-3-EU-CE-LED-UVW
- NEW!** # 72400-3-EU-CE-LED-UVW-REF
- NEW!** # 72400-3-EU-CE-LED-MW

Specification:

- 300cm² optical glass lens A5-format
- Lens size approx. 195 x 155mm,
- 3 Diopters, Optical Glass
- Focal length approx 34cm
- Electronic HF power supply
- Dimmable illumination
- 34W flickerfree and glare-free Illumination or < 20W LED
- 2-pole illuminated Main switch
- Standard-Table clamp
- ESD-safe

Options:

- Color in Ivory
- Protection cover
- Finger protection
- Antireflective lens
- 10 Diopter auxiliary lens
- 4 Diopter lens (ask for availability)
- Wall mount
- Table clamp
- Heavy Duty Table Clamp
- 17kg Base Plate
- LED-Light, 5000K, white or UV

Spare parts:

- FS-Bulb: #13392 glarefree 5500K
- FS-Bulb: #13393 Ultraviolet
- Yellow-light on request



All our magnifiers are **CE** certified and marked

The BIG EYE 2 in Blue

LICO®

Part numbers: 72400-3-EU-CE-LED
72400-3-EU-CE-LED-AR

Our standard for industrial inspection

Extreme eye-protecting even
when used all day long !

Very convenient viewing area

Perfect for all day use!

Allows enormous
working depth

Focus:
~ 34cm

BIG EYE 2:

XL 200 x 150mm lens

3 Diopter

Reach of arm: 1m

Complete with electronic Dimmer,
2-pole power switch
and table clamp

ESD-safe



Specification:

- Extra large optical glass lens
approx 195 x 155 mm = ~ 300cm² / A5-format
- real DISTORTION FREE
- ground
- polished
- Crown-white
- Light quality = Daylight, nom. 5000K
- Illuminance ~1.000 - 7000LUX
- Color Rendering Index (CRI) 80-85
- Dimmer included:
- Adjust light step-free
- sturdy long life metal construction
- proven many thousand times
for many decades.

Options:

- The ultimate perfect LICO LED illumination
- UV Lightsource, Fluorescent or UV LED,
- Anti reflective coated lens,
removes about 2/3 of reflecting light
- 10 Diopter (x3,5) or 6 Diopter (x2,5) Auxiliary lens

References:

Commerce & Industry
Automotive
Electronics
Hybrids
Components
PCBs
Air- & Space industry
Police & Military
Safety industry
Fine mechanics
Bearings & Gears
Engine parts
Marine
and many more.

BIG EYE II

*The ideal
magnifier for
production and QS*



Part numbers: 72400-3-EU-CE-LED

72400-3-EU-CE-LED-AR

BIG EYE 2:

XL 200 x 150mm lens

3 Diopter

Reach of arm: 1m

Complete with electronic Dimmer,
2-pole power switch
and table clamp

ESD-safe



Our standard for industrial inspection

Specification:

- Extra large optical glass lens
approx 195 x 155mm = ~ 300cm² / A5-format
- real DISTORTION FREE
- ground
- polished
- Crown-white
- Light quality = Daylight, nom. 5000K
- Illuminance ~5000 LUX
- Color Rendering Index (CRI) 80-85
- Dimmer included
- Adjust light step-free
- Sturdy long life metal construction
- Proven many thousand times
for many decades.

Options:

- The ultimate perfect LICO-LED-illumination
- Anti reflective coated lens,
removes about 2/3 of reflecting light
ask for availability!
- 10 Diopter (x3,5) or 6 Diopter (x2,5) Auxiliary lens



The BIG EYE 2 with LED

LICO®

Part number: 72400-3-EU-CE-LED

The LICO-LED-light:

- Extra many daylight white or UV-Special-LEDs
- Selected and better Premium-quality-LEDs
- Daylight white illumination
- Spot-free due to a very big light emitting area
- Operation in low energy mode results in:
Very homogenous and evenly illumination
- Free of cast shadows
- Free of blue shadows
- Almost reflexion free illumination

How to order:

72400-3-EU-CE-LED (Standard)

72400-3-EU-CE-LED-AR

72400-3-EU-CE-LED-UV

72400-3-EU-CE-LED-UV-AR

72400-3-EU-CE-LED-MC / Multicolor

72400-3-EU-CE-LED-UVW / UV-White Hybrid

72400-3-EU-CE-LED-UVW-REF /UV Aimed beam angle

72400-3-EU-CE-LED-MW / Multiwhite

-AR stands for antireflective lens for all models available

-UV stands for UV-light

-Multicolor with 12+1 different LED colour



Specification:

- Extra large optical glass lens
approx 195 x 155 mm = ~ 300cm² / A5-format
- real DISTORTION FREE view
- ground
- polished
- Crown-white
- Light quality = Daylight, 5000K
- Illuminance: ~1.000 - 7.000 LUX
- Color Rendering Index (CRI): ~80-85
- Dimmer included
- sturdy long life metal construction
- proven many thousand times, for many decades.
- LED-Light:
- After many years of R&D the LICO LED-BIG EYE2 now offers the perfect solution in illumination.
Especially convenient for all day use, wearer of glasses and mostly suitable with visual impairment.

BIG EYE 2:

XL 200 x 150mm lens

3 Diopter

Reach of arm: 1m

Complete with electronic Dimmer
2-pole power switch
and table clamp

ESD-safe



Options, ask for availability:

- AR, antireflective coated lens
- 4 Dio, 4 Diopter lens(as for availability)
- 6 Dio (x2,5) Auxiliary lens
- 10 Dio (x3,5) Auxiliary lens
- Dust cover (Sun protection)

The BIG EYE 2 with UV Light

Part numbers:

72400-3-EU-CE-LED-UV(standard)

72400-3-EU-CE-LED-UV-AR

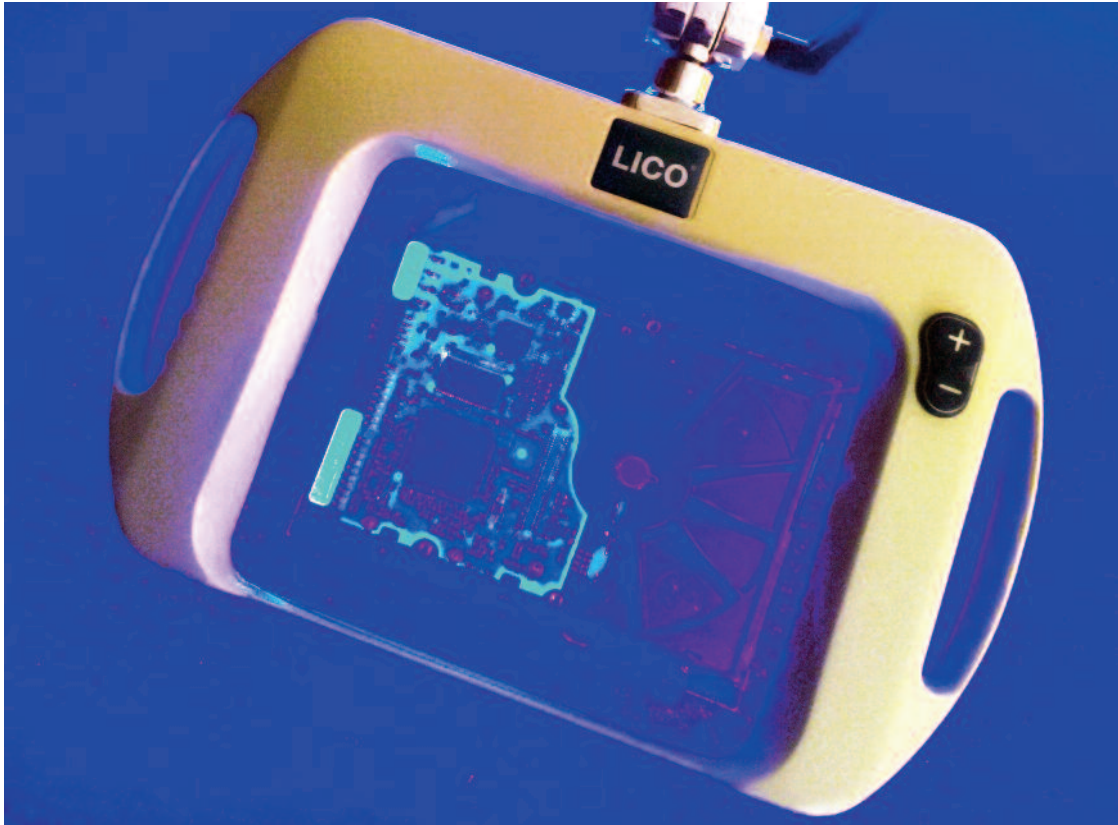
72400-3-EU-CE-LED-UV-REF

72400-3-EU-CE-LED-UV-REF-AR

New Model Available!
72400-EU-CE-LED-UV-REF
 with concentrated 30° beam angle

The **BIG EYE2** with high intensity UV LED light sources

UV spare bulb versions are still available (as long as stock lasts): part number: 13393



Wave-length and beam angles of the our UV lights:

UV bulb version: approx. 350 – 410nm

UV LED : 365 – 405nm

Beam angles of our UV lights:

Beam angle: ~130° (our standard)

Beam angle: ~30° (-REF) **NEW!**



Attention! High Intensity Ultraviolet Light - to avoid eye and skin damage it is highly recommended to wear proper Eye & Skin Protection. Please consult with your local work safety inspector. (LICO assumes no responsibility for any effects that occur due to improper use or miss of appropriate protection protocols.)

The BIG EYE 2 with UV & White Light **LICO®**

Part numbers:

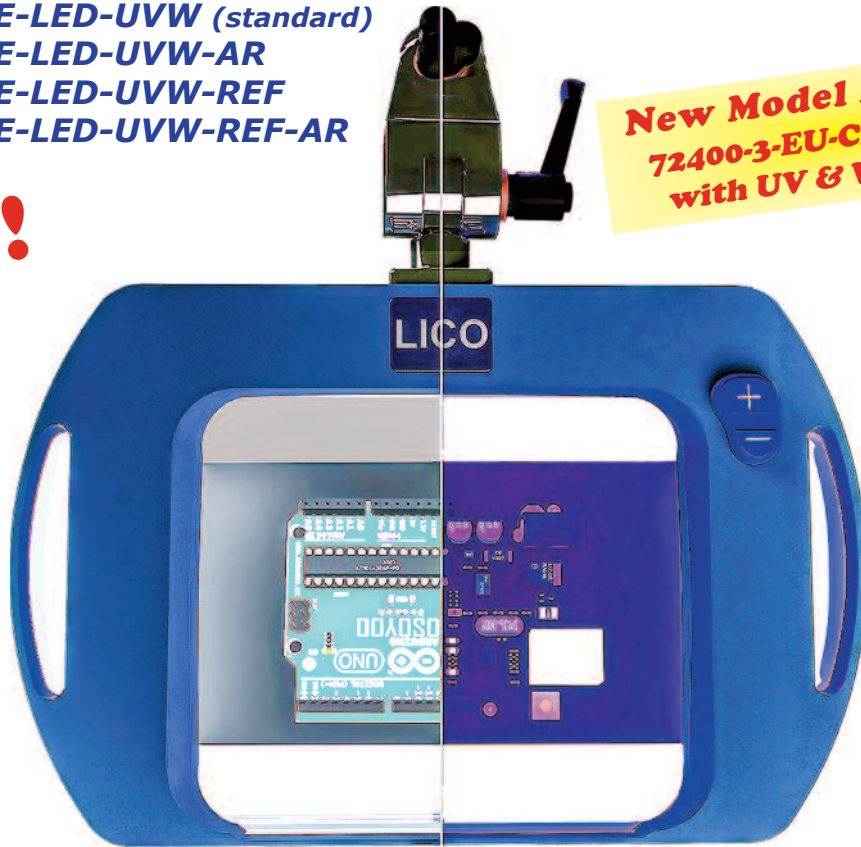
72400-3-EU-CE-LED-UVW (standard)

72400-3-EU-CE-LED-UVW-AR

72400-3-EU-CE-LED-UVW-REF

72400-3-EU-CE-LED-UVW-REF-AR

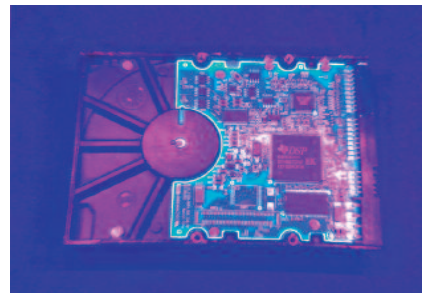
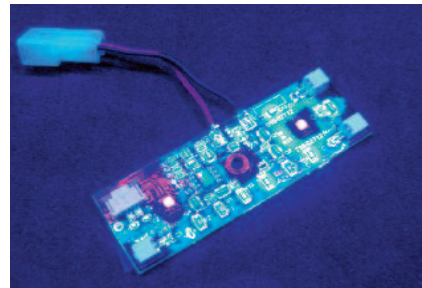
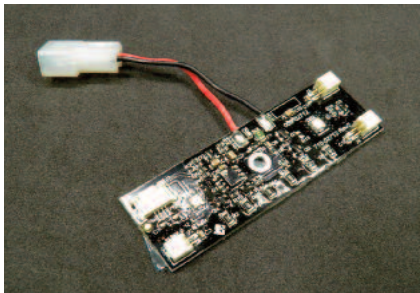
NEW!



BIG EYE 2 Series / The UV-White Hybrid LED Magnifier

The BIG EYE 2 UW – Ultraviolet & White rectangular, industrial magnifier lamp combines both our “daylight” White LED and high intensity UV LED light sources into one lamp.

The light source includes 56 pcs White LEDs for average “everyday use” and 4×3 pcs high intensity UV LEDs with 365nm, 385nm and 405nm.



Primary Setting Mode: by pressing the +/- buttons on the head of the lamp changes the light intensity.

Secondary Setting Mode: can change between the White light and UV light mode by pressing the +/- buttons at the same time.



Attention! High Intensity Ultraviolet Light - to avoid eye and skin damage it is highly recommended to wear proper Eye & Skin Protection. Please consult with your local work safety inspector.
(LICO assumes no responsibility for any effects that occur due to improper use or miss of appropriate protection protocols.)

Part numbers: 72400-3-EU-CE-LED-MW (standard)
72400-3-EU-CE-LED-MW-AR

New Model Available!
72400-EU-CE-LED-MW
with different colour temperatures

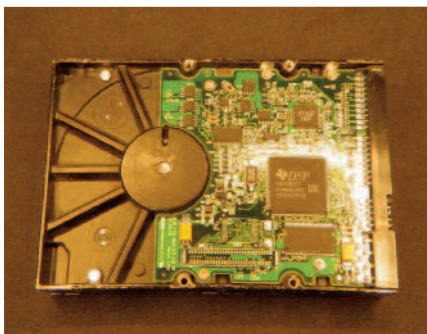
NEW!



The BIG EYE 2 MW – MultiWhite LED Magnifier

The BIG EYE 2 MultiWhite lamp has 10 different multiple colour temperature settings from Warm White – to Cold White. Why?

Under different color temperatures people see different materials, surfaces better and can see the same object from different aspects. With warm / daylight / cold colour temperatures people feel themselves- and especially work different. Just imagine your favourite color adjustable living room light between your hands!



Adjustable Colour Temperatures: 3000K - 6500K



Primary Setting Mode: by pressing the +/- buttons on the head of the lamp it changes between the colour temperature of the light.

Secondary Setting Mode: by pressing the +/- buttons at the same time, the lamp blinks once and switches to light intensity mode. In this mode the light intensity can be set. After 5-6 seconds the lamp blinks once and switches back to primary setting mode.

The BIG EYE 2 with Multicolor light LICO®

Part numbers: 72400-3-EU-CE-LED-MC (standard)
72400-3-EU-CE-LED-MC-AR

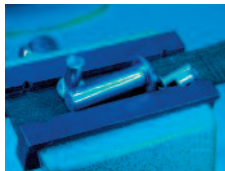
The **BIG EYE2 Multicolor** has RGB LED Light design.
With 12+1 Color options.



12 + 1 color settings, namely:



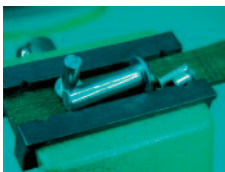
Yellow



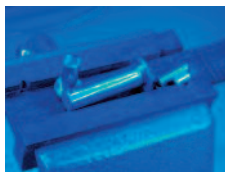
Light Blue



Pink



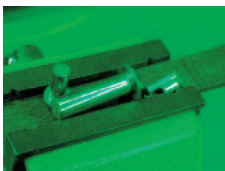
Cyan



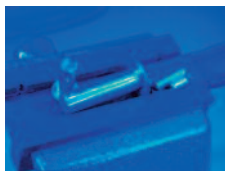
Blue



Magenta



Light Green



Deep Blue



Orange



Green



Purple



Red

Good to know:

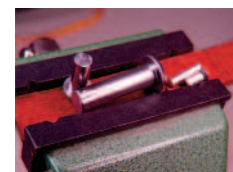
The lamp has multiple color setting options. Different colors can be used to focus on different aspects of an item. Includes also two options for normal use with a standard white colour.

Examples:

Under yellow light the material defects, scratches are more visible.

Under blue light you can see the holes and the edges much more precise.

The light intensity is also adjustable between 10 – 90 %.



Primary Setting Mode: by pressing the +/- buttons on the head of the lamp it changes between the coloured lights.

Secondary Setting Mode: by pressing the +/- buttons at the same time, the lamp blinks once and switches to light intensity mode. In this mode the light intensity can be set. After 5-6 seconds the lamp blinks once and switches back to primary setting mode.

for the **BIG EYE** and the **BIG EYE2**

Simple to use

Easy to use

Improved flexibility

Attractive design

Improved construction

Full metal mechanics



Optical glass lens: Diopters & Magnification:



Data of our optical lenses:

3 Diopter lens: Magnification approx. 1,75x, Focus approx. 34cm

4 Diopter lens: Magnification approx. 2,00x, Focus approx. 27cm

5 Diopter lens: Magnification approx. 2,25x, Focus approx. 17cm

Grounding & ESD:



Our magnifiers are grounded full metal constructions and shall be connected to an appropriate ESD- or grounding box to comply with the given company internal ESD-workplace regulations. Details can be found in the Owner's manual.

Operation, Maintenance & Care:



Our magnifier are built for very long life. Advise for operation, maintenance and care is found in the Owner's manual or at LICO.

Corresponding care will assure a trouble free operation for many years.

Painting in Custom COLOURS:

Please send your inquiry!



11461 Table Edge Clamp,

This clamp is supplied as a standard fixture with all our magnifiers. Clamping range: 29 - 69mm.
Color: blue, ivory or black



11463 Screw Down Fixture, Heavy Duty

Color: blue, ivory or black



11464 Table Clamp, Heavy Duty (as long as stock lasts)

Double, with two fixtures. Clamping range: 11 - 49mm.
Color: blue, ivory or black



11462 Wall Mount

Color: blue, ivory or black

Attention: The ivory picture is only an illustration. The wall mount **mandatory** has to be **mounted** and used as shown on the blue picture: **flat side up !!**
Otherwise break, injury and damage may occur!

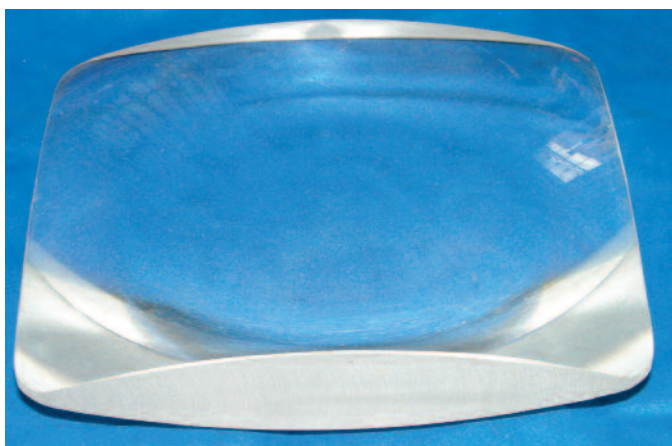


11458 Heavy Base Plate

Weight 17,5kg

Use instead of other fixtures
Color: ivory or black

Attention: Despite of the high weight it is possible to capsized the lamp

**Spare lenses:**

13157	4 Dio lens BIG EYE , round
13160	3 Dio lens BIG EYE 2
13160-AR	3 Dio lens-AR, BIG EYE 2, (check availability)

Auxiliary lens:

13168	10 Diopter-additional lens, Magnification: 3,5x
13169	6 Diopter-additional lens, Magnification: 2,5x

**Spare springs for 72400 :**

10241	Upper arm spring 3Dio-lens
10249	Upper arm spring 4Dio-lens
10245	Spring between socket and knee 3Dio + 4 Dio-lens

**Optional:**

gold plated springs (check availability)

Dust cover - Sun protection

11501-MF : Micro-fibre dust cover, color blue

11502-MF : Special Cleaning cloth for lenses, especially suitable for AR-lenses



Important Safety Notice: To prevent potential fire hazards, always cover the magnifying lens when not in use. Direct sunlight passing through an uncovered lens can focus light and ignite flammable materials. Keep the lens covered or store the lamp in a shaded area to ensure safe use.

**Service is our success:**

We are a certified Master Operation and we supply long-life products. Our magnifiers are not throw-away products, by all means a life of 10, 20 years or even longer is no curiosity. Therefore we proudly service all our magnifiers on our own in Europe.



13367 Finger protection for 72400 BIG EYE 2 fluorescent bulbs

transparent cover with mounting clips.
Simply clip the cover on to the installed bulb.

Ideal for mechanical works under the lens to protect the bulb or when using the magnifier as a reading lamp.

Spare bulb for the BIG EYE 2

p/n 13392,
34W Special bulb, glare free, daylight

p/n 13393,
34W special bulb, Ultraviolet



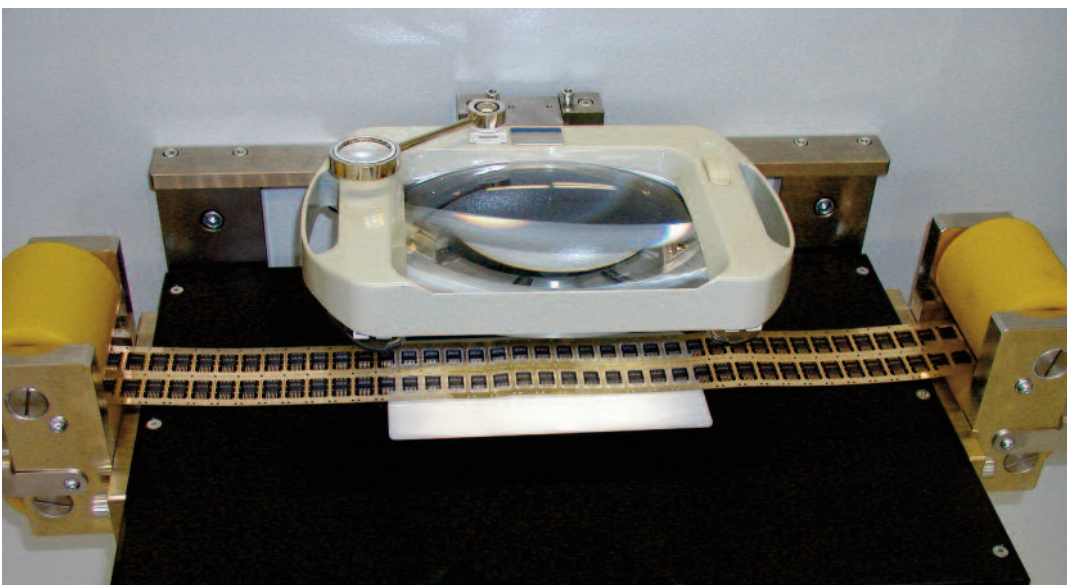
Spare bulb for the BIG EYE



p/n 13362,
34W Special bulb, glare free, daylight
(1985-2010, "old, thick" Version)

p/n 13363,
34W Special bulb, glare free, daylight
(2010- "new, thin" Version)

Application example: Illuminated Machine Magnifier



Example: use as a
Split-unit:

The power supply
is mounted inside the
machine control box,
the lens-head is
mounted appropriate
on to the machine.

GREENLITES

O.C.White LED round and rectangular magnifier lamps



This Industrial Standard with Innovative Design and energy-saving and newest LED-technology.

**Ideal for Labor
and R&D**



178 x 133mm
LED-Magnifier

82400-4-EU-CE
in Perlblue-Metallic



178 x 133mm
LED-Magnifier

82400-4-EU-CE
in shadow-white



150mm
LED-Magnifier

42400-4-EU-CE
in Crystal-Perl Red



190mm
LED-Magnifier

62400-4-EU-CE
in Anthrazit-Metallic

Max. Power consumption: energy saving 8W only at max. 7500 LUX Illuminance

Big round Magnifiers are also available with 5 Diopter lenses. Electronic Dimmer and Section Control is Standard.

Supply incl. Table Clamp

Options: Different Colours, Screw Down fixture, Wall Mount, Dust Cover.

Extra-Large Designer-Magnifier, 150mm, 190mm Lens

Ultralow Power Consumption: max. 8W
only

Newest LED Technique

Very bright, dimmable Light

Switchable sections

4 or 5 Diopter lens

Dimmer

Timer



**Since 2010
with
5D-Effect**

5D-Effect

*The individual light
segments can be preselected
switched on or off, resulting
in a 5-dimensional lighting option
from all around, left, right, front
and back*

Proven, solid Construction

Robust and long-life
Metal Arm, Joints
and Head

Reach: ~ 1m

How It Works?



Note:

Units are equipped with automatic timer function.
And turns the unit Off after 4:05 hrs.

To enable and disable the timer.

Press and hold both buttons for 2 seconds.

-If the unit blinks once the timer is ON.

- If the unit blinks twice the timer is OFF.



Switch On/Off and Dimmer

Press and hold power button down to
adjust brightness from high to low and back
continuously. Release button when desired
brightness is achieved.

Press Power button to turn on/off the light
manually.



Light Switchable Section

Press Sequence button to switch through
lighting options.

All on, Left+Right, Left, Right, Top

Extra-Large Magnifier with White & UV-light, with 4 Diopter 178x133mm Lens

Ultralow Power 8W Consumption:
30VDC external Power supply

Newest LED Technology
Both visible light & UV-light
or White Light only.

Very bright dimmable Light

Switchable Functions:
White or UV or
both together

Dimmer

Timer

UV Wave-length approx. 365nm

82400-4-EU-CE
82400-4-UV-EU-CE



Viewing Sample:

Proven, solid
Construction

Robust and long-life
Metal Arm, Joints
and Head

Reach: ~ 1m



Attention! High Intensivity Ultraviolet Light - to avoid eye and skin damage it is highly recommended to wear proper Eye & Skin Protection. Please consult with your local work safety inspector. (LICO assumes no responsibility for any effects that occur due to improper use or miss of appropriate protection protocols.)

BONKOTE[®] 日本ボンコート株式会社

www.bonkote.eu

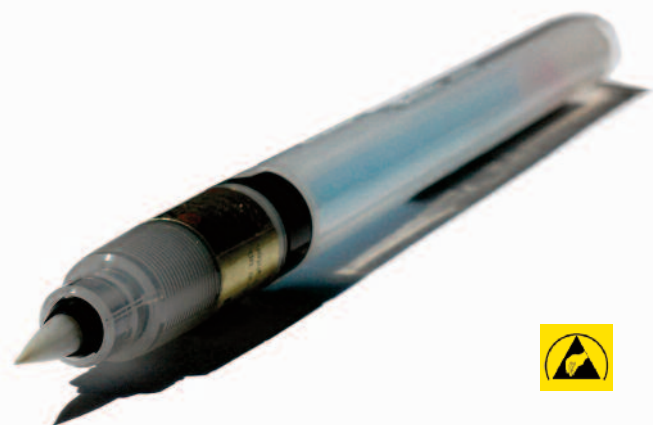
LICO[®]

*Simply
the Best!*



*The Original high
quality products
directly from
Japan!*



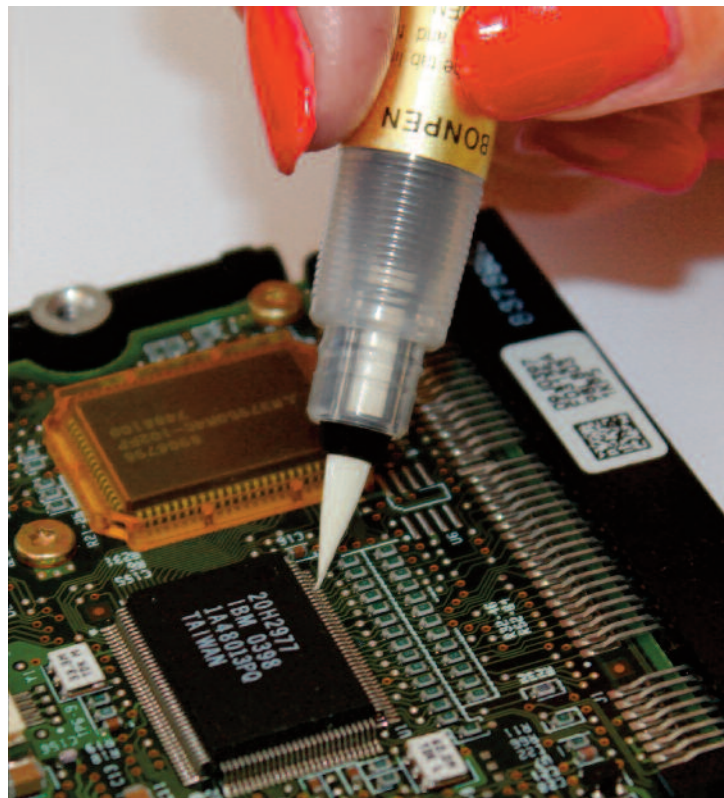
**BONPEN,**

These handy Bon Pens allow for very accurate flux dispensing on the work area, while eliminating dripping and flooding, making it irreplaceable for every SMD-workplace

BONPEN-Materials: PP, PE, Nylon.

BONPEN is **Suitable for:** Fluxes, Alcohol, Fluoric Lube, Primers, Flux inhibitors, Water

BON-102A, 7 pcs set consisting of 1pc of all BON-102 PENS (including BON102S)



Be aware of the counterfeit versions!

LICO is the only authorised BONKOTE Partner in Europe for the Original BONKOTE Flux Pens.

Attention:

The counterfeit versions are NOT ESD SAFE.

www.bonkote.eu



BON102



BR102, Spare Tips, cone shape short,
L=14mm, W=4,3mm, fine nylon-brush

BON102S



BR102S



BR102S, Spare Tips, cone shape short, ultrafine,
L=10mm, W=2,5mm, very fine nylon-brush

BON102T



BR102T



BR102T, Spare Tips, cone shape long,
L=18 mm, W=5,2mm, fine nylon-brush

BON102D



BR102D



BR102D, Spare Tips, flat-chisel shape,
L=17 mm, W=6,2 mm, fine nylon-brush

BON102B



BR102B



BR102B, Spare Tips, cone shape short,
L=9,5 mm, W=4,5 mm, fine felt

BON102F



BR102F



BR102F, Spare Tips, flat-chisel shape,
L=10 mm, W=4,5 mm, fine felt

BON102K



BR102K



BR102K, Spare Tips, angled flat-chisel shape,
L=12,5 mm, W=4,5 mm, fine felt

CA102

Replacement Cartridge2, 7ccm



BON102 = BR102 + CA102

Over all Length: BON102 approx. 170mm
the Printed Version scale is a bit smaller than 1:1

The Packaging:



BONPEN & BR-Spare Tips: Packages of 5 pcs.



BR-Spare Tips: Packages of 5 pcs.

BON-102A - Set consists 1 of each:
 BON-102, BON-102S, BON-102T, BON-102D, BON-102B,
 BON-102F, BON-102K

The Bonkote Fine Cleaner

Are you using wet sponges or metal sponges to clean your soldering tips?

It is proven that such temperature shocks slowly but surely crack the coating surface of soldering tips. The temperature drop can be even 50 - 100°C. And such circumstance can lead into instable soldering temperature. And finally such temperature shocks reduces the life expectancy of soldering tips remarkably.

Metal sponges scratch the fine surface of soldering tips which also reduces the life expectancy.

Bonkote round stainless steel bars and the smooth high temperature rubber **can save considerably** on your soldering tip life by avoiding scratches and high temperature drops.



The Fine-Cleaner consists of a High temperature rubber part and a Magnet



This Magnet can be fixed at the bottom of the Cleaner



Strong residues can be pre-cleaned or cleaned at the rounded stainless bars.



Simple residues can be cleaned off the tip at the rubber lip

Types:

Model	Inner Diameter	Outer Diameter	Weight
B-250	25mm	50x22mm	65g
B-500	50mm	87x30mm	185g

Materialies: Magnetic plate, High temperature-rubber, rounded stainless steel bars

The Desoldering Braid® 3S-Wick® The Original

3S-Wick® patented vacuumization technology is preferred by leading organizations worldwide. Vacuumization yields a high-speed response wick for quickest and safest desoldering. A simultaneous comparison dip-test (MIL-STD-202 E Method 208 C) with competitive wicks will show the differences.

3S-Wick® flux is based on mildest non-corrosive, non-hygroscopic, non-conductive rosins of 'no-clean' quality.

3S-Wick® conforms to the most stringent soldering standards set worldwide i.e. DIN-8516, DIN-8527, DIN-8511-F-SW32 (German), BS-441, DTD-599A (British), JIS-C-2519, JIS-C-2512 (Japanese), ASTM-B284, NASA Publications MIL-F-14256D type W and A, NPC-200-4 Quality Publication, NASA-SP5002 Soldering Electrical Connections, NASA-NHB-5300 Reliability and Quality Assurance Publications, and others.

3S-Wick® is used and has been used for the most demanding desoldering operations in spacecraft and military electronics. 'No-clean' residues can be left safely on the desoldered area.

IMPORTANT:

The minimal residues left on the soldered area do also act as a solderability conservation for that area, should the resoldering not be done immediately there.

The technical term 'no-clean' Wick found in desolder braid descriptions and specs usually refers to a wick whose desoldering operation only leaves a minor amount of flux on the desoldered area and which do use a flux composition whose residues can be left safely on the desoldered area.

A fluxless wick as often proposed does not exist and can not function by metallurgical reasons.

LOTSAGLITZE® is a German word created about 36 years ago by Spirig and is registered as a trademark for Spirig. The commercial wicking technology to remove solder was established in Europe by Spirig.

Entlötlitze is also a recently created German word expression for desoldering braid and the use of Entlötlitze is free for the public use to describe this desoldering technology/products.

Why is it advantageous to remove solder using 3S-Wick®?



Wicking avoids damaging and life reducing heat shocks to components, printed circuit boards copper tracks (peel off danger if overheated) and surrounding components. Wicking also protects these parts against excessive temperatures of idling mechanical solder suckers.

3S-Wick® is made from high heat conductive copper and presents sufficient thermal mass per length to dampen heat shocks. Compare this to competing low thermal mass wicks!

The cold 3S-Wick® end is pressed with the hot soldering iron tip on solder to be absorbed. The cold wick and cold solder increase now gradually in temperature. There is no sudden temperature increase with large temperature gradients causing extreme thermal stress to the solder area. As wick and solder reach the melting temperature range of the solder, the solder liquifies and is almost instantaneously drawn by capillary forces into the wick, like ink into a blotter. Wick and tip should now be lifted simultaneously. The wick end with the absorbed solder is now cut off preparing a fresh wick end for the next de-solder operation.

3S-Wick® is made from high heat conductive copper with sufficient thermal mass and protects therefore against those "deadly" hot idling iron tip temperatures. The thermal mass of 3S-Wick® naturally cools the solder tip.

A too small solder tip compared to the 3S-Wick® size causes the tip temperature to considerably drop. The resulting temperature of the wick end, solder and tip might even fall under the melting point of the solder. Such a situation will not give a satisfactory desoldering operation.

If the temperature drops below the melting temperature then the temperature will rise only slowly by the heating power of the iron. The desoldering operates slowly, looks like freezing.

The size of tip therefore should be large enough to be able to store sufficient heat energy in its mass to bring upon contact the temperature of the wick and solder safely above the melting point of the solder. Correct wicking uses the stored heat in the tip for a speedy desoldering operation.

De-soldering by wicking means actually soldering the wick with the unwanted (to be removed) solder. The solderability of the wick is therefore a direct quality indicator for the wick itself.

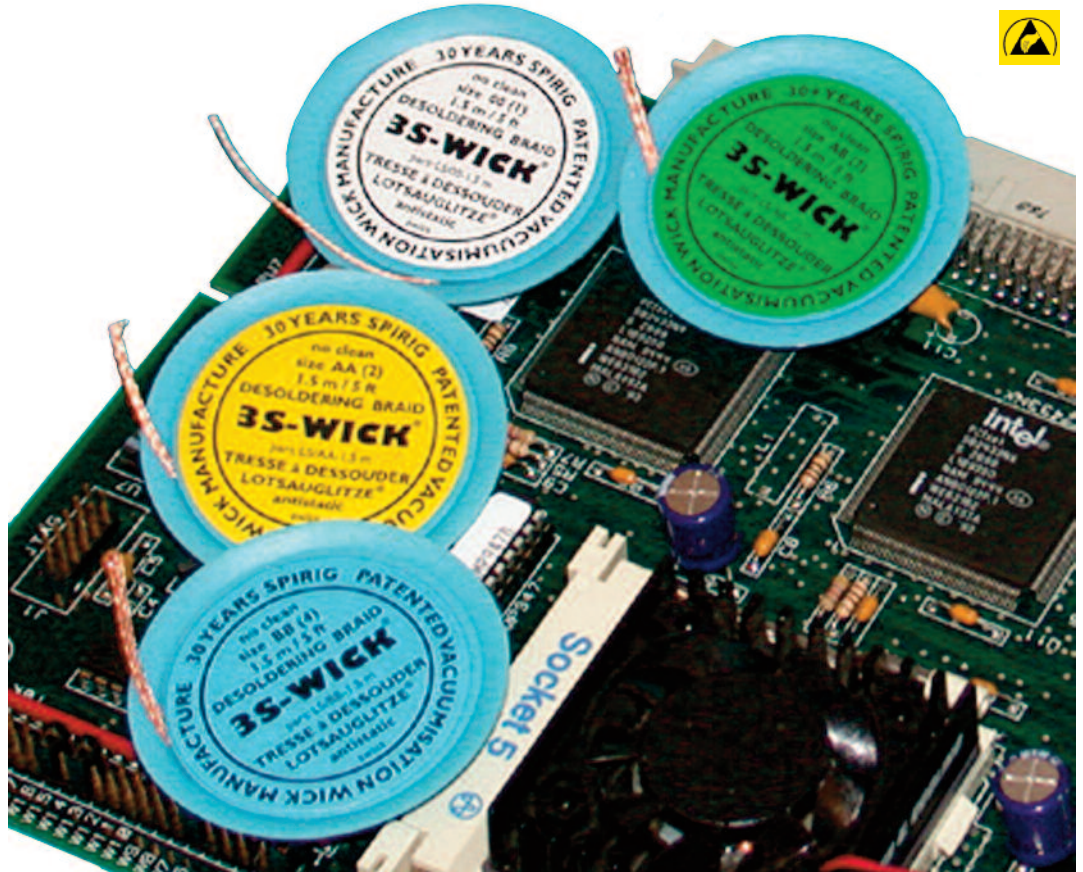
Spirig's patented vacuumisation production process dries the wet flux coated braid structure under vacuum and without heating. Therefore eliminating rise of chemical activity and interactions of the coating with the copper surface. The solvents in the vacuum pump exhaust are recycled.

Ozone depleting substances do not escape into nature.

Minimal loss of expensive solvents is one of the reason for economic wick production costs.

Spirig's patented powder flux deposit production process does not use solvents at all. Costly solvents and recycling is avoided completely. This is the ultimate economic approach to braid processing. Ozone depleting substances do not exist at all in this patented flux coating process.





Type	Colorcode	Width ca.	Length on spool	Part number.	Application	Recommended Heat Power
0	white	0,80mm	1,5m	LS/00-1.5m	very fine joints	from 20 Watt
			25m	LS/00-25m		
AA	yellow	1,50mm	1,5m	LS/AA-1.5m	fine joints	from 30 Watt
			25m	LS/AA-25m		
AB	green	2,20mm	1,5m	LS/AB-1.5m	medium joints	from 50 Watt
			20m	LS/AB-20m		
BB	blue	2,70mm	1,5m	LS/BB-1.5m	large joints	from 80 Watt
			15m	LS/BB-15m		

The blue spools are in Antistatic material

For best results, use a screw driver type soldering tip, the width of the tip shall fit to the width of the Desolder braid.

No-clean Flux compromises DIN EN 29 454 1.1.3

1,5m-Solder wicks are packed in boxes of 10 pieces.

The pumps:



**Dish-pump
One-Touch**

This pump automatically allows the flow back of the media into the bottle, which prevents unnecessary evaporation of the liquid.



**Dish-pump, lockable,
One Touch Take along**



**„Mushroom“-pump
Pure Touch**

This pump prevents the flow-back into the bottle to avoid any pollution of the original content.



**„Mushroom“-pump, lock
Pure Touch Take along**



Bottle volumes

2oz = 60ml, 4oz = 120ml, 6oz = 180ml, 8oz = 240ml

*) some bottles are available only in 1 or 2 sizes

Bottle Materials:



HDPE white (High density Polyethylen)

Metal

Conductive: black

Durastatic static dissipative: yellow, blue, orange, green

Glas: clear amber, various frosted colors

Ceramics: ask for our Beauty Special-catalog

Imprint:

Acetone, IPA, Flux Remover, Isopropanol, DI Water
(as far as available individually)

Combinations and availability:

ask for quote of specific quantity and availability,

Special editions:

e.g. goldplated pumps are custom-made



Info: The locking mechanism is ideal for transport of the Menda pump in service bags and for increased work place safety to avoid unwanted spilling.



**Mushroom-pump,
Bottle HDPE white, 180ml
Part number 35508**

**Dish-pump,
Bottle HDPE white, 180ml
Part number 3316 or 35509**

**Dish-pump, locking
Bottle HDPE white, 180ml
Part number 35703**

**Mushroom-pump, locking
Bottle HDPE white, 180ml
Part number 35805**



**Mushroom-pump,
Bottle Durastatic yellow, 120ml
Part number 35559**

**Dish-pump, locking
Bottle Durastatic yellow, 120ml
Part number 35360-L**

**Dish-pump,
Bottle Durastatic yellow, 120ml
Part number 35360**



**Dish-pump, locking
Bottle Durastatic blue, 180ml
Part number 35559**

**Dish-pump,
Bottle Durastatic blue, 180ml
Part number 35283**

**Mushroom-pump,
Bottle Durastatic blue, 180ml
Part number 35285**



**Dish-pump, locking
Bottle Durastatic yellow, 180ml
Part number 35276-L**

**Dish-pump,
Bottle Durastatic yellow, 180ml
Part number 35276**

**Mushroom-pump,
Bottle Durastatic yellow, 180ml
Part number 35276-P**



**Mushroom-pump,
Bottle Metal, 120ml
Part number 35335-P**

**Mushroom-pump, locking
Bottle Metal, 120ml
Part number 35255**

**Dish-pump, locking
Bottle Metal, 120ml
Part number 35256**

**Dish-pump,
Bottle Metal, 120ml
Part number 35335**

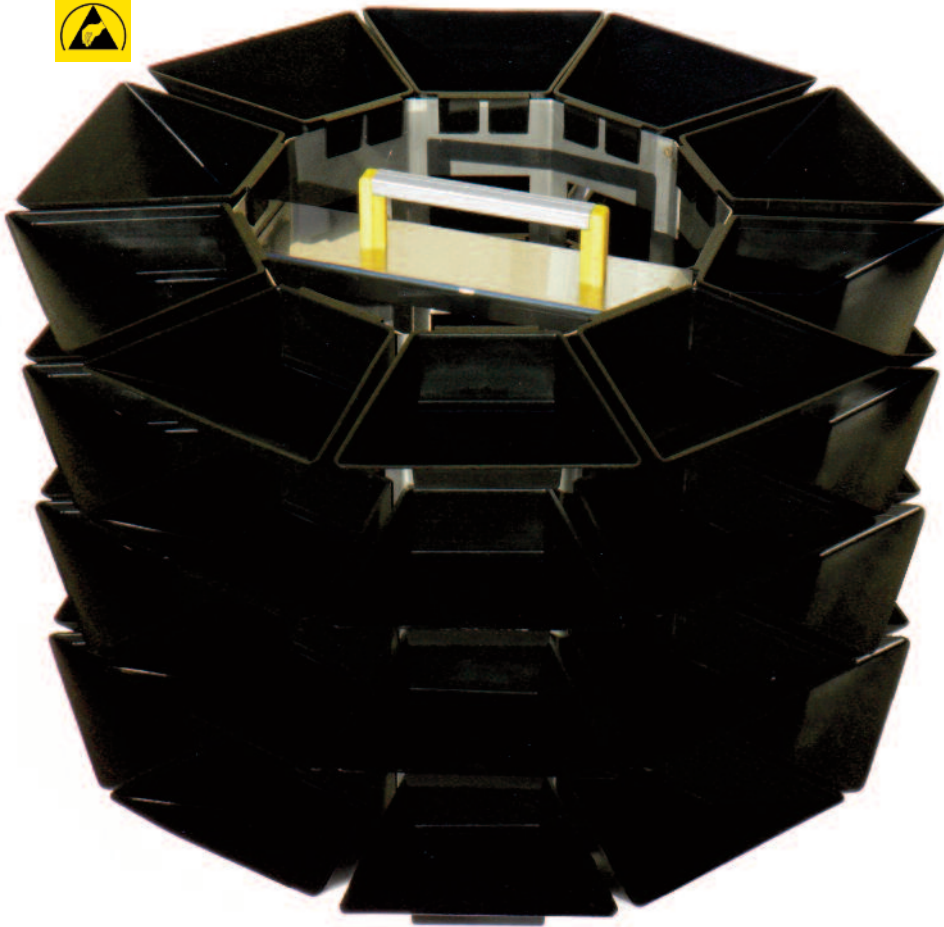


Limited Edition
as long as stock lasts, e.g.

**Dish-pump gold plated,
frosted blue glass, 180ml
Part number 35339**

**Ask for your very individual
Menda Dispenser Pump
& Bottle !**

The Types:

CARO 01 - ESD

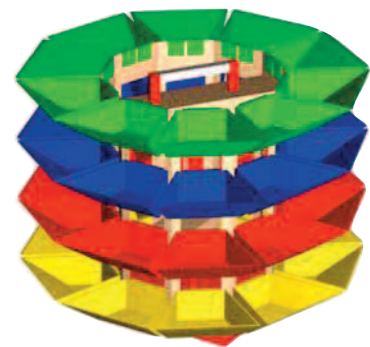
A very versatile and easy to rotate helper for all day use.

Solid mechanical construction ensures a very long life.

Comfortable handle to change from one to another workstation.

Solid base for a stable stand.

2 Version: colored tool-version or in ESD, static conductive for sensible Antistatic workplaces.

CARO 02**CARO 01 - ESD****Description:**

- Metal frame Stainless Optics, ESD
- 4 Levels
- 40 bins, conductive Thermoplast color: black
- Handle for carrying
- base-stand
- zink plated grounding Connection
- Weight: 4,8kg

Dimensions:

Carousell:
Width (with bins): 460 mm, Height 400 mm

Bin dimensions:
Height 40mm
length 106mm
width 70 – 130mm

CARO 02

- Metal frame white painted
- 4 Levels
- 40 bins, Thermoplast in 4 colors green, blue, grey, red
- Handle for carrying
- base stand
- Weight: 4,8kg

Carousell:
Width (with bins): 460mm, Height 400mm

Bin dimensions:
Height 40mm
length 106mm
width 70 – 130mm

LED Illuminated Magnifier without Dimmer

Interchangeable lens system:

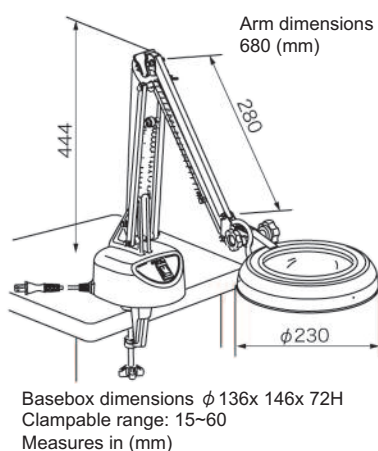
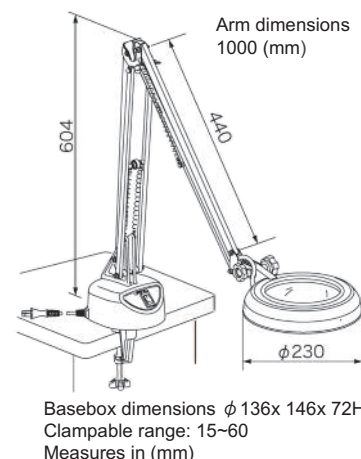
2x	3x	4x	6x	8x	10x	12x	15x
2xAR	3xAR	4xAR	6xAR	8xAR	10xAR		

Select the lens magnification and combine it with the main unit.

Example: **SKKL - F** **2x**
Series name Type name Magnification

SKKL-F

- Free arm and clamp type
- Free-type and versatile for inspection, designing, crafting, etc.
- Weight: 2.7kg (Excluding lens)
- Input voltage range:
AC100 - 240V
50/60 Hz (125 - 240V is applicable by replacing the input plug. A kind of input plug consult your distributor).
- Power consumption: 10W

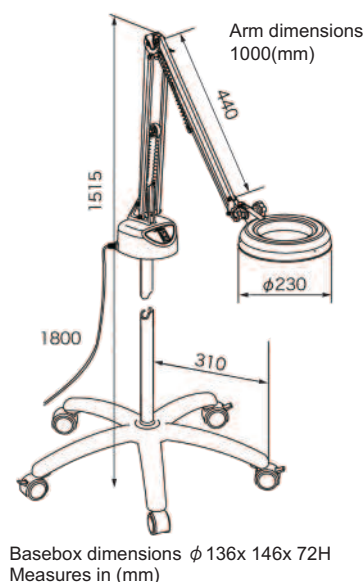


SKKL-CF

- Compact free arm and clamp type
- Free-type and versatile for inspection, designing, crafting, etc
- Weight: 2.5kg (Excluding lens)
- Input voltage range:
AC100 - 240V
50/60 Hz (125 - 240V is applicable by replacing the input plug. A kind of input plug consult your distributor).
- Power consumption: 10W

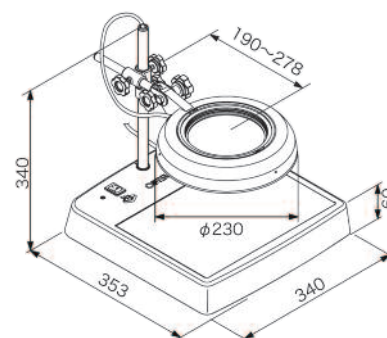
SKKL-FL

- Free arm with casters stand
- Moveable in the reach of the power cord
- Weight: 12.8kg (Excluding lens)
- Input voltage range:
AC100 - 240V
50/60 Hz (125 - 240V is applicable by replacing the input plug. A kind of input plug consult your distributor).
- Power consumption: 10W



SKKL-CL

- Light box with transmission illumination
- Weight: 3.2kg (Excluding lens)
- Input voltage range:
AC100 - 240V
50/60 Hz (125 - 240V is applicable by replacing the input plug. A kind of input plug consult your distributor.)
- Power consumption: 10W +5W



Measures in (mm)

ENVL - Series LED Illuminated Magnifier with Dimmer

Interchangeable lens system:

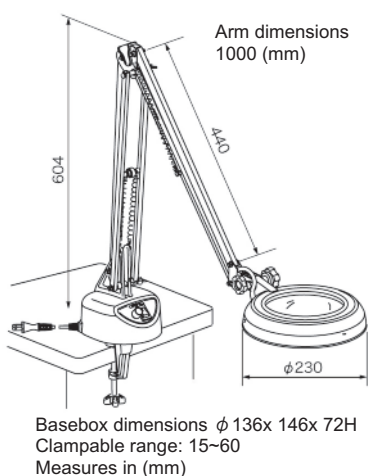


Select the lens magnification and combine it with the main unit.

Example: **ENVL - F** **2x**
Series name Type name Magnification

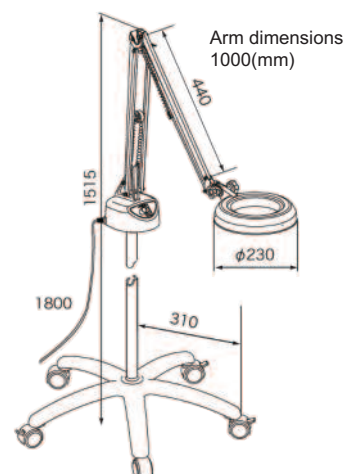
ENVL-F

- Free arm and clamp type
- Free-type and versatile for inspection, designing, crafting, etc
- Weight: 2.8kg (Excluding lens)
- Input voltage range:
AC100 - 240V
50/60 Hz (125 - 240V is applicable by replacing the input plug. A kind of input plug consult your distributor).
- Power consumption: 10W
- Light with dimmer(100-50%)



ENVL-FL

- Free arm with casters stand
- Moveable in the reach of the power cord
- Weight: 12.8kg (Excluding lens)
- Input voltage range:
AC100 - 240V
50/60 Hz (125 - 240V is applicable by replacing the input plug. A kind of input plug consult your distributor.)
- Power consumption: 10W
- Light with dimmer(100-50%)



Basebox dimensions φ136x146x72H
Measures in (mm)

ROUND Series Interchangeable Lenses for SKKL & ENVL - Series:

8x



φ 90
(quadruplet lens)

10x



φ 90
(quadruplet lens)

12x



φ 90 (3 groups,
quintuple lens) with
polarizing filter as standard

15x



φ 90 (3 groups,
sixtuple lens) with
polarizing filter as standard

Part Number	Diopter	Magnification	Eye Point (mm)	Lens Diameter (mm)	Working Distance (mm)	View (mm)	Weight (g)
	2	1,50x	150	φ 130	160	φ 170	400
	3	1,75x	150	φ 130	130	φ 140	500
	4	2,00x	150	φ 130	110	φ 120	700
	6	2,50x	100	φ 105	82	φ 70	570
RL-8x	8	3,00x	105	φ 90	54	φ 40	1300
RL-10x	10	3,50x	80	φ 90	43	φ 40	1350
RL-12x	12	4,00x	80	φ 90	35	φ 40	1350
RL-15x	15	4,75x	65	φ 90	30	φ 30	1560

WIDE Series Interchangeable Lenses for LEK WIDE-CF & LEK WIDE-F:

WIDE - 2x



φ 150
(single piece lens)

WIDE - 3x



φ 150
(single piece lens)

WIDE - 4x

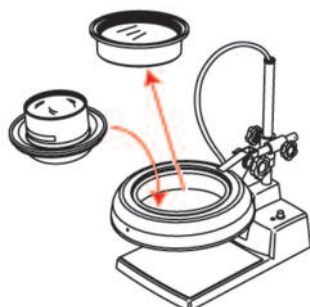


φ 150
(double lens)

Part Number	Eye Point (mm)	Lens Diameter (mm)	Working Distance (mm)	View (mm)	Weight (g)
WIDE - 2x	150	φ 150	150	φ 200	700
WIDE - 3x	150	φ 150	120	φ 180	720
WIDE - 4x	150	φ 150	100	φ 160	1150
WIDE - 2x - AR	150	φ 150	150	φ 200	700
WIDE - 3x - AR	150	φ 150	120	φ 180	720
WIDE - 4x - AR	150	φ 150	100	φ 160	1150

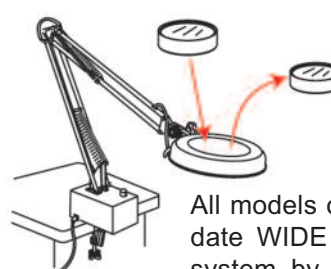
How to Change Lens:

SKKL & ENVL



All models of the SKKL and ENVL can accommodate all the magnifications of the Round series interchangeable lens system. The magnification can be easily changed by exchanging the lens and rubber frame together without using tool.

LEK WIDE



All models of LEK can accommodate WIDE interchangeable lens system by exchanging lens and rubber frame without using tool.

INSPECT SIMPLY BETTER



Qualified Trading and Manufacturing of Industrial Electronics

We have the right magnifier to improve your inspection yield.

www.eurolupe.com

www.bonkote.eu

www.ocwhite.eu

THE END OF EYESTRAIN & REJECT



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