

TRIGALIGHT[®] WATCH COMPONENTS
TRIGALIGHT[®] ILLUMINATION –
NO COMPROMISE FOR YOUR CUSTOMER

PRODUCT INFORMATION

FIRST CHOICE OF PROFESSIONALS



TRIGALIGHT® ILLUMINATION
 TURNS YOUR WATCH INTO A 24 HOUR TIME
 READING INSTRUMENT



0 mm

1 mm

2 mm

trigalight® illuminated watches are the first choice of professionals who need to rely on reading the time in a blink of an eye in every possible situation.

There is no power source of any kind required to activate the system, nor is the illumination system influenced by physically aggressive environments such as high or very low temperatures, humidity, vibration, or shock. Therefore it is the only true watch illumination system for police, military Special Forces, divers, underwater archaeologists, miners, fire-fighters, scientists, astrophysicists, outdoor/adventure activities and many more.

No other system in the world provides the same function, uses less energy or is more reliable than GTLS trigalight illumination. Every trigalight illuminated watch is not just a watch but a time reading instrument.

Take advantage from a widely employed and approved technology of permanent illumination.

mb-microtec trigalight for watch and instrument illumination are some of the worlds smallest self contained illuminations with just 0,5 mm in diameter and a length of 1,3 mm.

All trigalight® are completely maintenance free and have a guaranteed lifespan of at least 10 years.

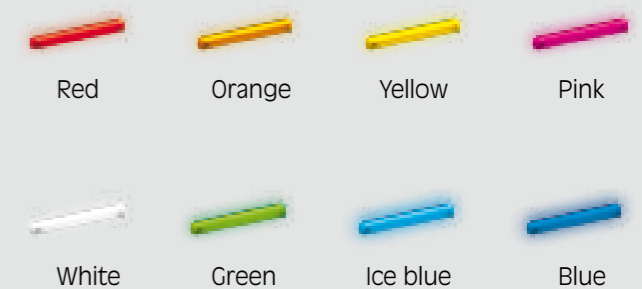
TRIGALIGHT® WATCH LIGHTS
 (STANDARD PRODUCTION) ROUND SECTION

Reference	Dimension [mm] Dia. x L	Activity [GBq]
T 6045-1	0.90 x 2.20	0.05
T 6040-1	0.90 x 2.50	0.03
T 6041-1	0.90 x 2.50	0.08
T 6042-1	0.65 x 4.10	0.08
T 6043-1	0.65 x 6.60	0.13
T 5648-1	0.50 x 1.30	0.02
T 6044-1	0.50 x 1.60	0.03
T 6080-1	0.50 x 1.95	0.04

TRIGALIGHT® WATCH LIGHTS
 (STANDARD PRODUCTION) RECTANGULAR SECTION

Reference	Dimension [mm] H x W x L	Activity [GBq]
T 5808	0.65 x 1.5 x 4.0	0.18

NON PERSONALISED LIGHTS ARE AVAILABLE IN THE FOLLOWING COLOURS:



For further information scan our QR-code with your mobile device. A free App (mobiletag) available for iPhone





The reliable trigalight technology (find out more on www.mbmicrotec.com) does not only allow you to read your watch under all light conditions, but also guarantees perfect protection against counterfeiting.

Let mb-microtec provide you with your own very personnel trigalight with a unique colour or dimensions. Further security features on the trigalight such as micro barcode engraving are available on request.

RADIAL MARKERS

A radial inserted trigalight makes these tactical insert shorter in length and therefore optimal for all places which need a compact and most resistant application of illumination. Traditionally radial inserts are used in watch bezels or as Position markers on scope turrets.



available in all standard colours

Reference	øxL(mm) [mm]	Sleeve Material/ Lens	Activity [GBq]
T 4785	3.6x3.8	Aluminium/sapphire	0.09
T 4030	3.85x2.5	Aluminium/sapphire	0.22
T 5491	2.7x2.15	Stainless steel/sapphire	0.03
T 5090	2.7x2.0	German Silver/sapphire	0.05
T 5080	2.7x2.0	Aluminium/sapphire	0.05
T 5489a	2.0x1.75	Stainless steel/sapphire	0.03
T 5489	2.0x1.65	German Silver/ sapphire	0.03



Assembly methods

There are three different methods favoured for fitting a mb-microtec ag trigalight on hands and faces of watches.

- ▶ The lights are fitted to the hands and face using an elastic adhesive such as silicone.
- ▶ The lights are placed in a ring with the necessary openings for the light to escape.
- ▶ The lights can be laid in cut-outs in hands and faces (with the corresponding dimension) using a special adhesive foil, secured on the reverse side of these parts.

mb-microtec assembly Service

One of our core competences is the fitting of trigalight to watch components such as hands, dials or bezels. Manual as well as robotic assembly is possible depending on quantities and the form of the watch parts. We will be more than pleased to provide you with a specific offer.



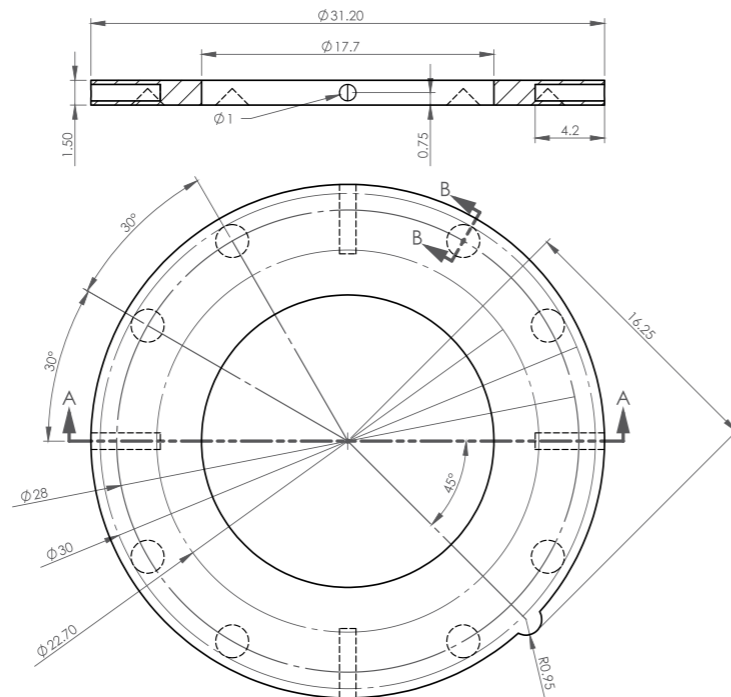
HELIOS

TIME TO LIGHT UP OUR FUTURE

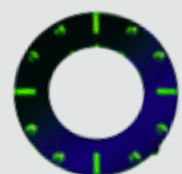
HELIOS FIBRE OPTIC RING

HELIOS is an illuminated ring, built upon two fascinating technologies. The four built in self-contained tri-galight supply visible light for more than a decade without an external power source. The emitted light is guided through the fibre optic ring to the points where the light is needed.

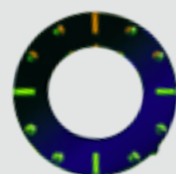
The helios fibre optic technology gives you the ability to equip your watch dial with the newest Swiss Made illumination available. Using the same trend setting technology that modern and future IT media communication is built on. A truly state of the art technology that brings the world together.



HELIOS IS AVAILABLE IN THE FOLLOWING COLOURS:



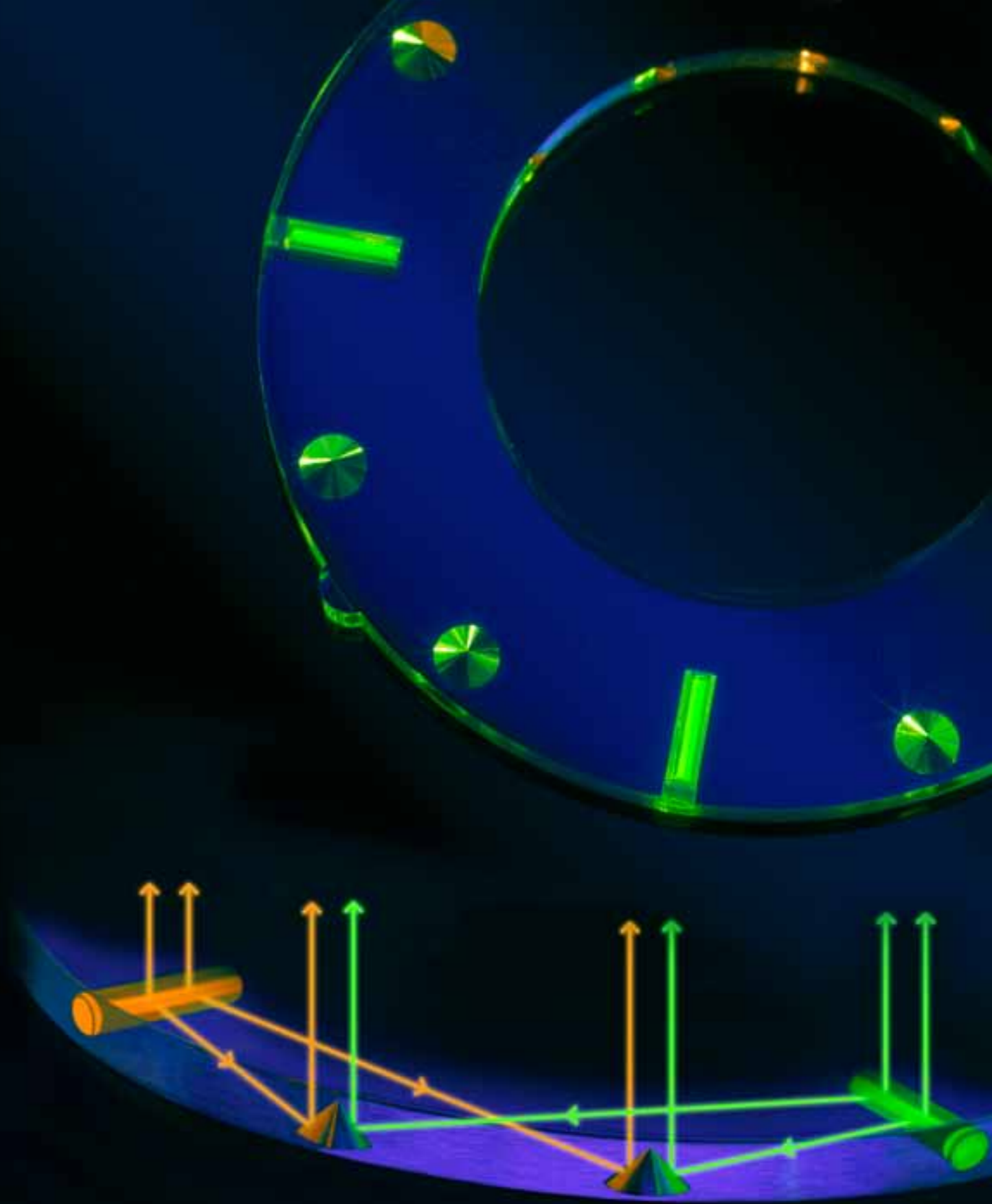
Colour: green
Art. Nr.: H4G
Activity: 0.84 GBq
Material: PMMA

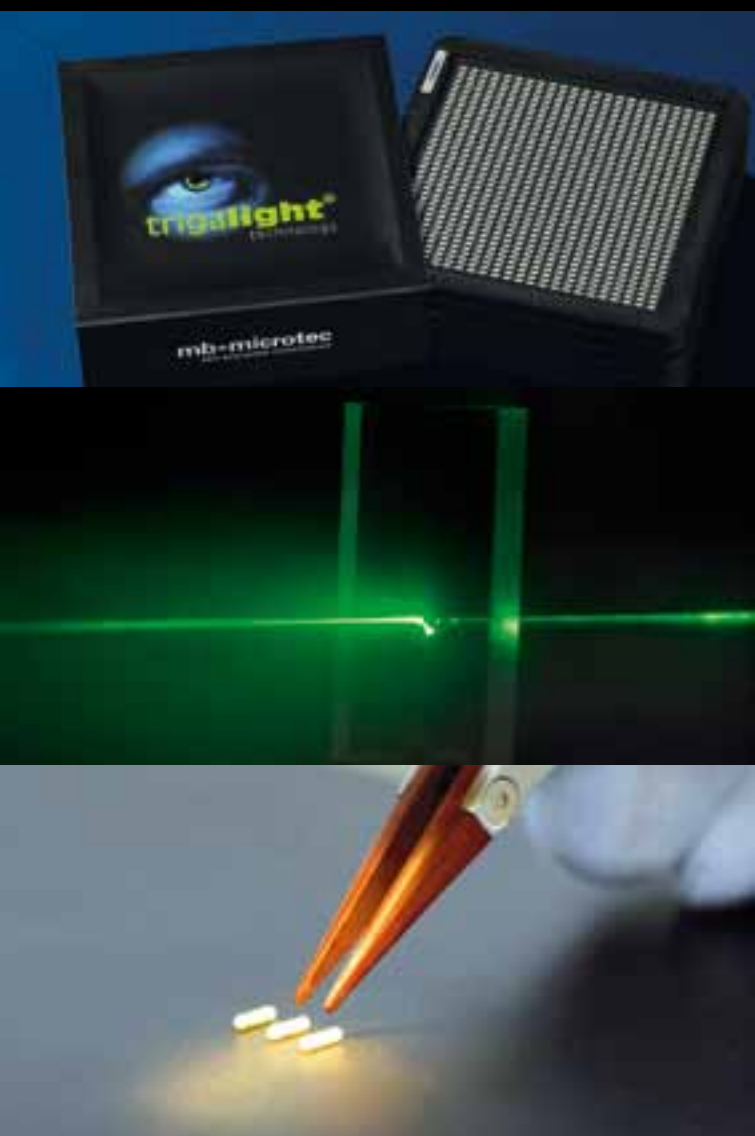


Colour: orange/green
Art. Nr.: H103G
Activity: 0.84 GBq
Material: PMMA



Colour: orange/ice blue
Art. Nr.: H103IB
Activity: 0.84 GBq
Material: PMMA





OUR SERVICES

Due to our experience in micro systems assembly and tritium handling we can offer you the following services or provide you further research and development in the following fields:

Assembling of micro mechanical and micro optical parts

The laboratories of mb-microtec run a hand assembly line with 10 work stations as well as high tech assembly robots which allow amongst others the monitoring of the dimensions, the brightness and spectral curves of not only trigallights but on any other light emitting component

Laser glass sealing, glass packing of micro-mechanical/micro optical parts, gases or others

The production line of specially modulated CO2 lasers are capable of the gas tight sealing of capillaries or glass vessels. This method allows high precision packing of gases or liquids as well as solid micro components or electronics.

Research and development in the field of GTLS and fibre optics applications

Research and development specifically in the field of optical gun sights which combine the use of a trigallight® and fibre optics including improved efficiency of existing systems, on day-night vision optics, on wave guide optics and more.

Radiation safety consulting

Our specialists will gladly give you support for licensing issues, planning of laboratory layouts, advice on the equipment needed for the safe handling of isotopes (mainly tritium and carbon 14) as well as tritium waste treatment and disposal (Switzerland only) including IATA DGR conform packing.

Component testing

Our laboratory provides the possibility to run tests in accordance to Military specifications and ISO standards:

- Ansi N43.4-2005 mil spec
- N540
- ISO 2919
- Nureg 156 Vol.3 Rev 1

Please do not hesitate to request an individual quote.

mb-microtec ag

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SWISS MADE