

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 trigalights 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 trigalight[®] 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 as to ANSI N43.4-2005 mil. spec. standard

Our test laboratory provides the possibility to run tests in accordance to Military specifications, such as ANSI N43.4 or N540, as well as to ISO 2919 standards. Please do not hesitate to request an individual quote.

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SWISS MADE

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mb-microtec
self activated illumination

WATCHLIGHTS
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



trivalight® 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 trivalight illumination. Every trivalight 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 trivalight 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 trivalight® are completely maintenance free and have a guaranteed lifespan of at least 10 years.

The reliable trivalight 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 trivalight with a unique colour or dimensions. Further security features on the trivalight such as micro barcode engraving are available on request.

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



0 mm

1 mm

2 mm

TRIGALIGHT® WATCH LIGHTS

(STANDARD PRODUCTION) ROUND SECTION

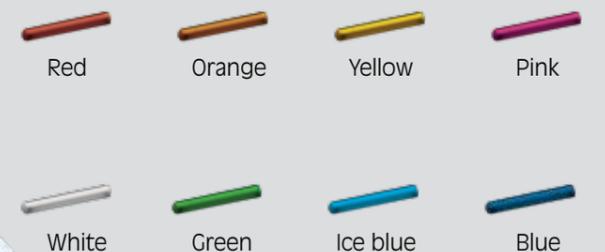
Reference	Dimension [mm] Dia. x L	Activity [GBq]
T 6045-1	0.90 x 2.20	0.053
T 6040-1	0.90 x 2.50	0.037
T 6041-1	0.90 x 2.50	0.085
T 6042-1	0.65 x 4.10	0.080
T 6043-1	0.65 x 6.60	0.135
T 5648-1	0.50 x 1.30	0.027
T 6044-1	0.50 x 1.60	0.035
T 6080-1	0.50 x 1.95	0.045

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	0.189

NON PERSONALISED LIGHTS ARE AVAILABLE IN THE FOLLOWING COLOURS:



Assembly methods

There are three different methods favoured for fitting a mb-microtec ag trivalight 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 trivalight 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.

