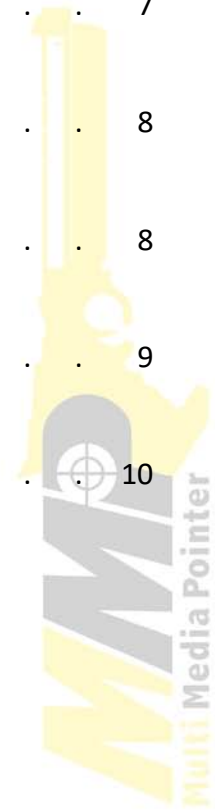


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1 Technical data - IQ-Container complete set (TM)

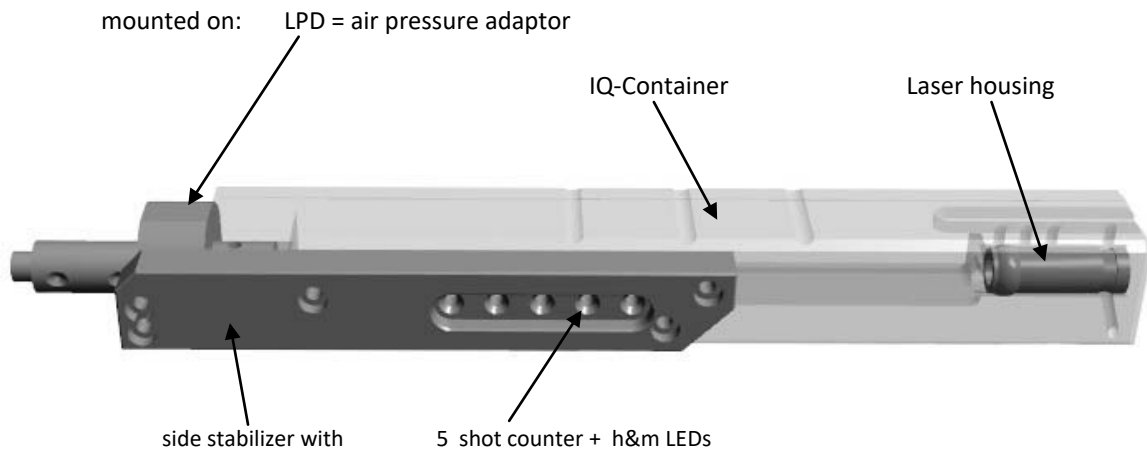
state certificates (GERMANY) (see page 10,ff.)	TÜV CE	approved & tested tested
laser class 1	650 1mW	nm, red, pulsed, coded diode / fail safe – controlled
shot time	16,5 - 35	msec, programmable
shot develop time	10	msec, programmable
„caliber“- size of laser with special optics	4,5	mm +/- 0,2 mm on 10m
sights lengh sights front	adjustable	from 316 mm up to 365 mm moveable sights
IQ-Container length	227	mm
hight	26	mm
length	420	mm
width	30	mm
battery power	1,5 V	AA-Type battery, only Alkaline recommended!
wireless radio-modul / mainboard		external & internal programmable
MMP Pistol LP 2010, STEYR based:		
maximum filling pressure	200	bar
total weight with filled cylinder	1060	g
trigger pull weight (adjustable) is factory-set	500	g
front sight	4,5	mm
number of shots with 1 filling of air cylinder	appr.	120 shots
battery power life (pentathlon standard mode)	appr.	75.000 shots



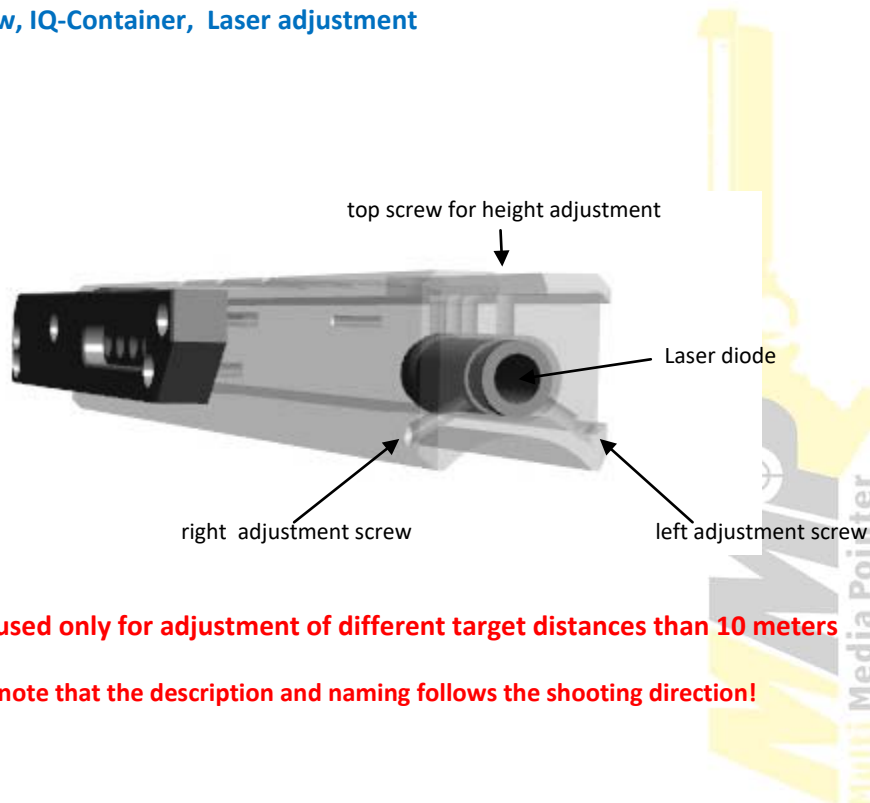
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2 Technical data - IQ- Container complete (Sketch)

top / right side view, IQ Container



front view, IQ-Container, Laser adjustment



To be used only for adjustment of different target distances than 10 meters

Please note that the description and naming follows the shooting direction!

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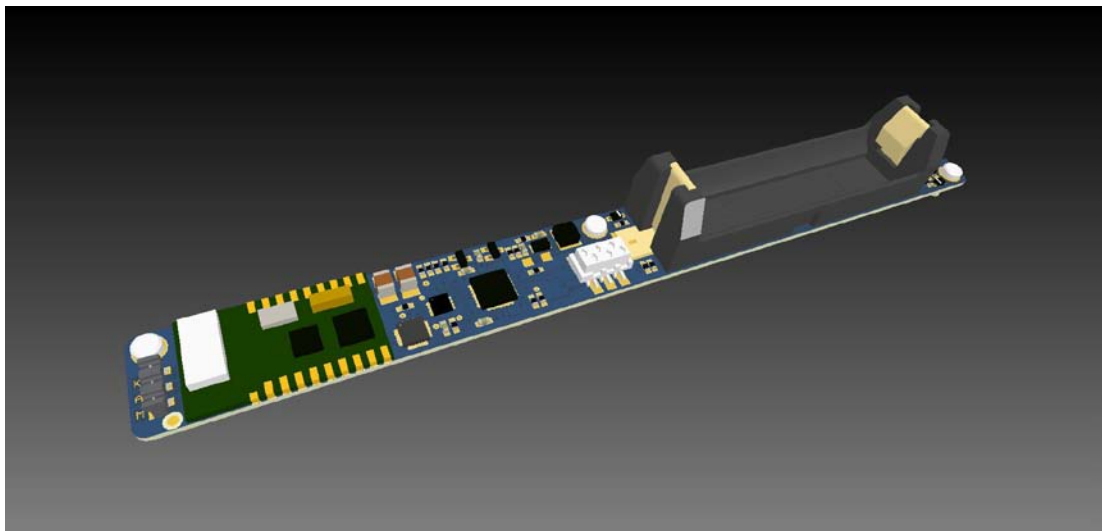
3 Technical data - IQ- Electronics / Laser control unit



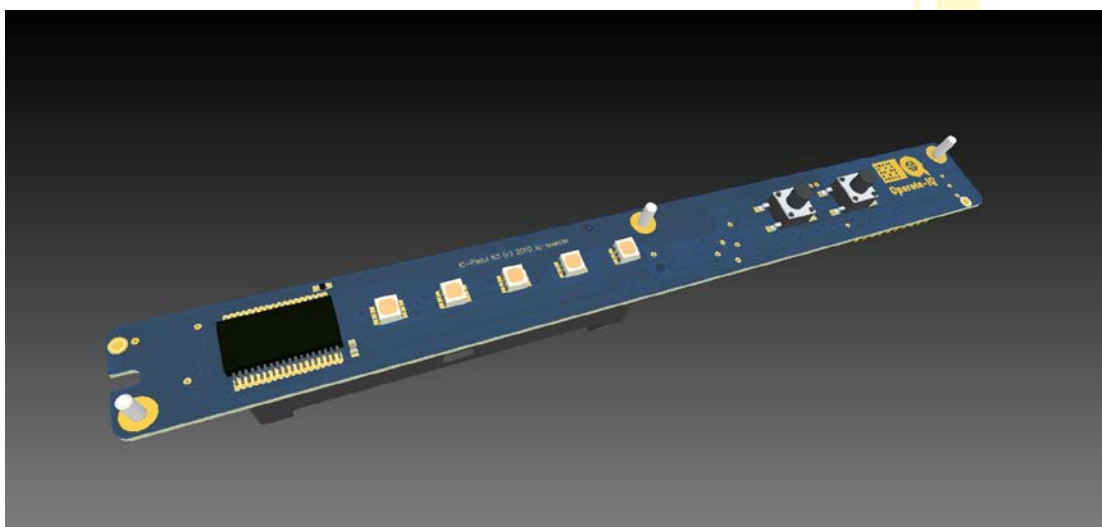
NOT TO BE OPENED OR TOUCHED!

Laser class 1

top view, battery unit



bottom view, shot visualizing h&m LEDs, settings switches



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Attention!



When using the built-in laser diode with another than the certified IQ-circuit board = electronic controls, foreign adaptations or modifications / manipulations this can result in hazardous radiation exposure!

Congratulations on the purchase of the environmentally friendly, harmless, most modern and accurate shooting system of the world; the **IQ-System**

We wish you much fun and success in personal training, competitions and the sharpening your senses!

4 Installing / replacing the battery

Your MMP-laser works with one AA alkaline battery

Battery life is between 24 hours and several months, depending on the use / operation of the LED diodes on the side of the MMP.

In the standard UIPM modern pentathlon mode our experience shows 75.000 shots with one fresh battery.

- Carefully open the side gate in the direction of the "muzzle" (laser firing direction) to release the battery compartment.
- Install the battery with the positive (+) in the direction of the "muzzle" (shooting direction).
After inserting the battery, the first LED should flash blue after a few seconds (10-15), the device is switched on and instantly ready to fire.
If the LED does not blink after 30 seconds, please remove the battery and insert it again.
- Slide the side gate back towards pistol grip.
- There is an automatic switch off time /standby time programmed, as soon as you cock and shoot again the MMP wakes up and is ready to operate instantly.

Notes: Please remove the batteries when the MMP is not used for a longer period, or if you go to travel with it.

Please also fully empty the air cylinder using the filling adaptor, if you go for air travels!

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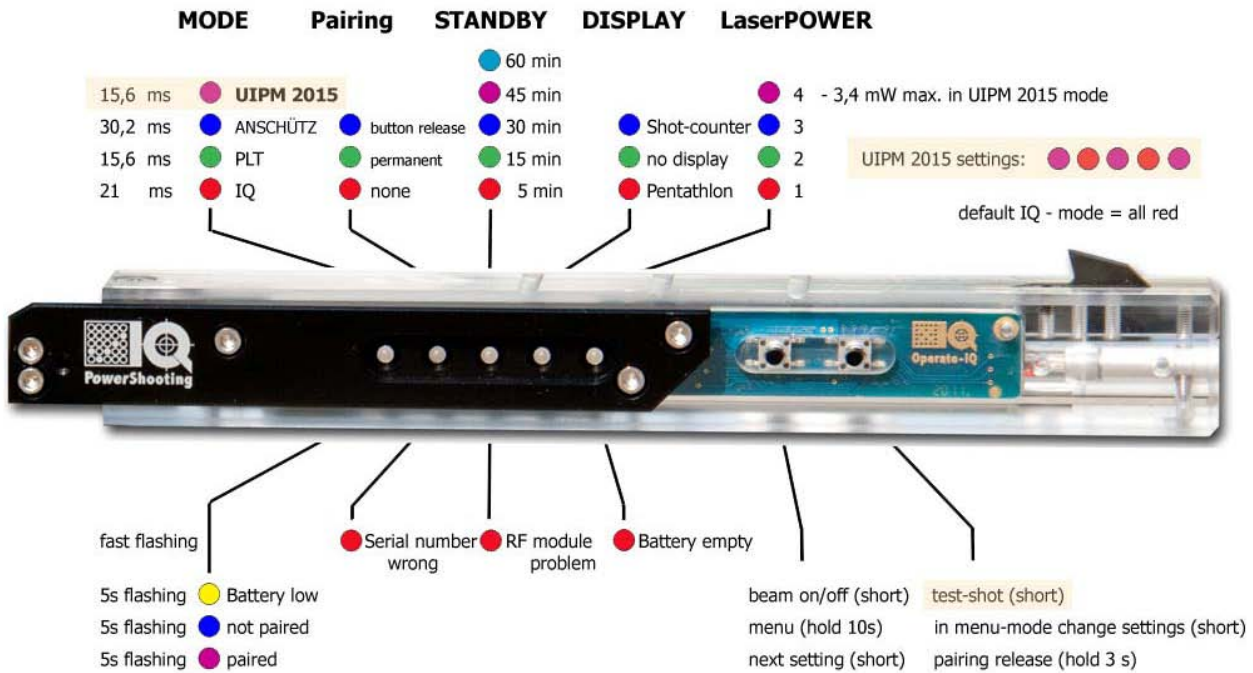
5 Operation of the MMP

- **The MMP Pistol LP 2010 and its laser device is adjusted and set up for 10m, the battery is fully loaded, so it is ready to use for UIPM combined shooting.**
- **Make sure your air cylinder is always above 100 bar of air pressure, before you enter a competition!**
- **If you need to adjust, feel free to do this via the normal sighting adjustment tools, in case it does not work out the way you would like to see it, please ask for help from a technician**
- **Cock the MMP like you cock a real pistol, make sure you have the loading bar totally closed, this way you are sure that the laser will “fire”**
- The MMP works and reacts as a “real” Air Pistol, only that it is not dangerous at all! The laser is “triggered” = released by the air shot
- Do not use the dry fire mode of the pistol, the laser might not fire!
- Treat the MMP as if it was a real Pistol; never aim on a person or an animal
- Even though the laser is class 1 and eye safe, do not look into the barrel while triggering a shot
- Do not scare people with showing off your MMP device!



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6 Laser setup options of the MMP



IMPORTANT:

the different power settings apply to the shots (16,5 - 35 ms) only; the constant beam is fixed to 1 mW.

This way we can guarantee that the IQ-Container is Laser Class 1 while shooting and Laser Class 2 while using constant beam, according to IEC 60825-1.

WARNING:

while using constant beam the Laser Class is 2.

The Laser radiation is eye-safe but can cause irritation and dazzling if looking directly into the beam. Looking into the beam with magnifying glasses or spyglasses must be strictly avoided.

If you want to "block" the constant beam function, please turn to our technicians, we can eliminate this function via software option

DO NOT PLAY with the above settings; only refer to setups which have been explained to you by IQ- technicians or UIPM technical delegates

7 Safety tips

- Do not expose the MMP or IQ-Container to constant direct sunlight for many hours, as the housing material may take damages from too high constant temperatures (35 C and higher). Always cover it with a towel or its transport case
- The laser device cannot act unpredictably, as it is continuously checked by the electronic circuit board
- Do not expose the MMP or IQ-Container to water or leave the laser to high humidity
- Keep your MMP clean and dry, wipe off any humidity and slightly oil the metal components occasionally
- Never touch the inside electronics or try to manipulate the device

8 Security tips

- This product is classified as Class 1 Laser designating all procedures of shooting operation:
 - Wavelength 650 nm beam diameter <4,5 mm at 10m
 - Laser Power < 1 mW only emitted while using the “constant beam” (see also WARNINGS on page 7)
- Laser Light - Avoid direct eye contact
- The laser will not be opened or modified by the user except the installation of battery
- Do not allow the laser or laser lights directed to reflect or to other persons or animals
- Do not shine the laser at airplanes, cars, in windows or on other objects, how they could be damaged, and at all times act responsible for your actions!
- Keep the laser away from children!
- Do not drop or bang the laser it can be damaged.
- There are no service performances by the customer or by third parties allowed. A defective unit will have to be returned to the factory.
- Warranty - 2 year limited

Note **If the product is taken apart the warranty is null and void.**

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9 IQ-LPD, for diverse pistol types / manufacturers:

ANSCHÜTZ

IQ-LPD ANSCHÜTZ, LP@
length 45 mm
width 28 mm
diameter barrel adoption 12 mm

STEYR Sport

IQ-LPD STEYR, LP 1
length 45 mm
width 28 mm
diameter barrel adoption 12 mm

IQ-LPD STEYR, LP 2
length 70 mm
width 28 mm
diameter barrel adoption 12 mm

IQ-LPD STEYR, LP 10
length 45 mm
width 28 mm
diameter barrel adoption 12 mm

IQ-LPD STEYR, LP 50
length 45 mm
width 28 mm
diameter barrel adoption 12 mm

Morini

IQ-LPD Morini, CM 162
length 55 mm
width 28 mm
diameter barrel adoption 12 mm

Pardini

IQ-LPD Pardini, K10
length 55 mm
width 28 mm
diameter barrel adoption 12 mm



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Feinwerkbau

IQ-LPD Feinwerkbau, LP 30
length 45 mm
width 28 mm
diameter barrel adoption 12 mm

IQ-LPD Feinwerkbau, LP 34
length 45 mm
width 28 mm
diameter barrel adoption 12 mm

IQ-LPD Feinwerkbau, LP 40
length 45 mm
width 28 mm
diameter barrel adoption 12 mm

IQ-LPD Feinwerkbau, LP 44
length 45 mm
width 28 mm
diameter barrel adoption 12 mm

Walther

IQ-LPD WALTHER, 300XT
length 45 mm
width 28 mm
diameter barrel adoption 12 mm

Hämmerli

IQ-LPD Hämmerli
length 45 mm
width 28 mm
diameter barrel adoption 12 mm



10 Certificates / Test reports



3 Test Results

3.1 Limits and conditions:

Accessible emission limits for $\lambda = 650\text{nm}$:

Class 1 _(CW) :	$P_0 = 0,39\text{mW}$
Class 1 _(30ms) :	$P_0 = 50,46\mu\text{J}$ (correspond to 1,68mW at t=30ms)
Class 2:	$P_0 = 1,00\text{mW}$

Time base _(normal use) :	t = 30ms
Time base _(fault condition) :	t = 0,25s
Aperture stop:	7mm
Distance:	100mm

Measured laser radiation:

With continuous laser dot: $P_0 = 0,78\text{mW}$ (correspond to 23,4 μJ at t=30ms)

3.2 Result

In normal use the laser light is on for 30ms and fulfils laser radiation limits for Laser Class 1 products.

Under single fault condition (e.g. override of timeout circuitry lead to continuous laser light) the product still fulfils laser radiation limits for Laser Class 2 products (eye safe).

4 Remarks to Factory

A routine inspection (100%) of the output radiation shall be conducted before placing on the market.

TÜV SÜD Product Service GmbH

Technical Report checked



i.A. Manfred Schmolke
Industrial Electronics

TÜV SÜD Product Service GmbH

Engineer



i.A. Ralph Fischer
Industrial Electronics

File: 028-71370132-
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Rep.-No: 028-71370132-000
Revision: 0
Page 3 of 3

Project Manager:
Ralph Fischer
Date: 2010-05-20

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TUV

TÜV SÜD Product Service GmbH
Munich Branch
Röllerstraße 65
80339 Munich
Germany

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Test report

MHG22_01

Product / EUT: Laser pistol adapter
Type designation: IQ-Pistol
Tested type: IQ-Pistol
Production level: Rev. 2
S/N: xx
Manufacturer: mcm-solutions
Schneemannstraße 2
81369 München / Germany

Test remit: EMC review of the EUT according the conformity under the provisions of Directive 2004/108/EC related standards:
EN 61000-6-1:2007
EN 61000-6-3:2007

The standards were: kept*
 not kept*

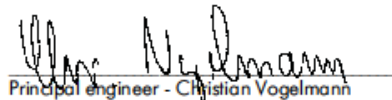
*Remark: Validation covered by the accredited scope
 Validation not covered by the accredited scope according: _____
 Validation of the EMC-requirements partly proceeded

Applicant: Operate-IQ GmbH
Waltherstraße 15
50679 Köln / Germany

EUT-
Date of arrival: 2010-05-31
Test ID: PRG22_01
Date(s) of test: 2010-05-31

Burgrieden, 2010-06-04

Released by:


Principal engineer - Christian Vogelmann

Remark: The test results effects only to the relate items tested.
The test report shall not be reproduced except in full without the written approval of the testing laboratory.

