



## FAQ

(frequently asked questions)

# UIPM / IQ - System, Laser-shooting for Modern Pentathlon



- 1 - how to order equipment?
- 2 - Pistols / IQ-Container
- 3 - Targets / LED displays
- 4 - pricing of the system / rental conditions
- 5 - accessories
- 6 - software
- 7 - delivery times / guarantee
- 8 - functionality of the IQ-System



# UIPM Order Guidelines



## 1 - ordering IQ system components

### 1.1 - how to order IQ-equipment?

- directly **through the online-shop** of our distributor IQ-TEAM-ASIA Ltd.
    - [IQ-Shop Login](#)  
(or apply for your password: ✉ info@iq-sport.net  
in order to see the special UIPM / IQ-sponsored prices)
      - prices without German VAT
      - prices in € or US\$
      - orders apply to local import conditions
  - **from Operate-IQ GmbH** via Email: ✉ info@iq-sport.net
    - prices in €
    - prices include German VAT
- in any case the UIPM sponsored prices only apply
- in connection with the **UIPM athlete number\*** or
  - a confirmed validation through UIPM or
  - a confirmed validation by a national federation with UIPM-approved lists
- \***UIPM athlete number** is the personal UIPM ID (international license number) of each athlete competing in international modern pentathlon

### 1.2 - how many items per athlete / federation?

- the UIPM / IQ-sponsored prices are limited to one piece per athlete for the IQ-Container and one spare IQ-container!
  - both parts have the same sponsored price: 499,- €\* per piece!
  - prices / offer applies only for the IQ-containers with existing adapters.
    - contact us for additional questions / information ✉ info@iq-sport.net
- there is no order limit according to any product, you can order as many as you like;  
**no minimum, no maximum!**

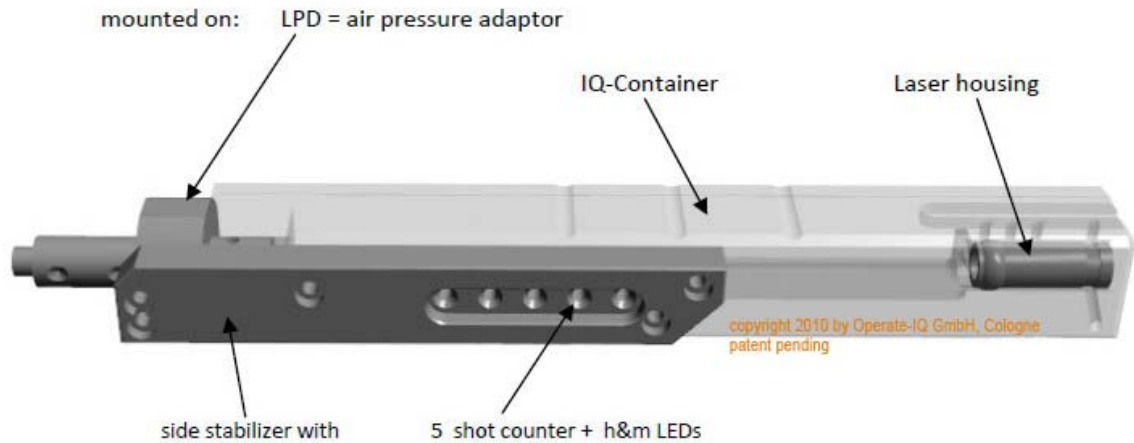
### 1.3 - which information is necessary to order IQ-equipment?

#### 1.3.1 - IQ-adapters (one per UIPM number, sponsored price: 499,- €\*)

more precise for which exact air pistols of the current offer:

- STEYR: LP 10, LP 2
- ANSCHÜTZ: LP@
- Morini CM162M, CM162E
- Feinwerkbau LP 44, LP 40, LP 34, LP 30
- Pardini K10
- Walther LP 300XT

### top / right side view, IQ Container



### 1.3.2 - spare part IQ-containers for quick exchange/repair without LPD (see graphics)

the IQ-container spare parts price is: 499,- €\* (maximum one per UIPM number)

### 1.3.3 - IQ-targets

- a) H&M (hit & miss): 298,- €\*
- b) PLT (precise laser target): 1.498,- €\*
- c) do you want Netbook computers for the PLT? 350,- €\*

### 1.3.4 - lights / LED displays

- a) what kind of lights do you have? (SIMPOWER / Navistreet)
- b) how many lights do you want?
  - SIMPOWER: 480,- €\*
  - Navistreet: 400,- €\*
- c) do you need adapters / converters for lights?

depending of what light type you may already have bought, we need to check and deliver the fitting adapters for you.
- d) do you need cable sets to connect lights and targets?

your existing lights cables should work, please specify the number you have

### 1.3.5 - MMP purchase of new complete sets (MultiMediaPointer)

do you want to buy complete MMPs? (Pistol plus IQ-container, without air pellet barrel!)

**market introduction price offer until 31.12.2010:**

- a) STEYR LP 10 based, 1.550,- €\*
- b) STEYR LP 2 based, 1.100,- €\*
- c) Morini CM 162 based, 1.600,- €\*



#### **IMPORTANT notice:**

*\* all prices listed here are including German VAT of 19%*

*In our partner-online-shop you can see the net-prices after having registered as UIPM member*

# UIPM FAQ



## 2 - Pistols

### 2.1 - what kind of Pistols can be used with the IQ-System?

- right now we have adapted the following models / brands:
  - STEYR: LP 10, LP 2, LP 50
  - ANSCHÜTZ: LP@
  - Morini CM162M / CM162E
  - Feinwerkbau LP 44, LP 40, LP 34
  - Pardini K10
  - Walther LP 300XT

### 2.2 - Are there plans to adapt more types / models / brands?

- we can virtually adapt any Air-Pistol / CO2-Pistol with the IQ-adapter
  - for each new air pressure adaption we have to face quite serious prototyping / manufacturing costs
    - the price for a new air pressure adaption is 5.000,- Euro

### 2.3 - Buying new MultiMediaPointers (MMP)

#### ... no weapon, but serious sport device, package prices, discounts

- if you decide to buy a completely new sport device, including the IQ-Adapter (but not including a "normal" barrel)  
(for example a Steyr LP 2, LP 10, or a Morini CM 162) we can offer you package prices with a certain extra discount.
- the same applies for "bundles" of MMP + H&M or PLT  
please inform us about your special desires and we will come back to you with a specific offer.
- any discount in these packages comes from the cooperation with the suppliers; it is never a discount for the IQ-system components, please see FAQ "pricing"

## 2.4 - IQ-Container detailed information

### 2.4.1 - power supply / battery

- the power is provided by a standard type AA battery
  - since rechargeable battery types have a slightly different power curve, we do not recommend their usage
- it is NOT included in the delivery of an IQ-Container
- we recommend to check the battery status from time to time with a Volt-meter or via IQ-Software
- the battery life / duration of performance is very much related to environment temperatures and usage habits
  - generally we have seen performances of more than 50.000 shots with full LED usage, still we recommend to check and exchange batteries for important competitions.



# UIPM FAQ



## 3 - Targets / LED displays

### 3.1 - What kind of Targets exist?

- ready to deliver are:
  - H&M (hit & miss) - targets replace the targets currently used in modern pentathlon
    - H&M targets register the laser-"shot" with sensors/detectors
      - reaction time is 10 ms (milliseconds)
      - sensors "know" the IQ-Container (by its serial number) when it shoots on the target
      - IQ-Container & target "pair" so that it is impossible to shoot the target of another competitor during competition.
      - the H&M target "controls / communicates with the IQ-Container
      - competition control through SIMPOWER or Navistreet light in connection with Cardsys or EasyPenta Software
  - PLT (precise laser targets) - feature many new options/enhancements for your shooting skills
    - training mode
      - full feedback of shot: value, position, timing
    - competition mode
    - the PLT delivery includes the software for WINDOWS 7 / WINDOWS XP systems

### 3.2 - Is it possible to rebuild the current targets into laser targets?

- the "re-building" of current air-pellet targets to the new laser system targets is possible with extra mechanical works.
  - as these works have to be done by mechanical machines this seems to be more expensive than to buy the complete H&M target with the LED inclusion on the front side.
- a conversion of the old targets is theoretically possible, the new H&M targets with the LED technology cost 298,- € for everyone.

### 3.3 - How many types of LED displays exist

- currently we are aware of 2 manufacturers for the LED displays:
  - SIMPOWER, a french producer which connects to EASYPenta Software for computer / TV connections
  - Navistreet, a hungarian product which connects to the Cardsys Software system for computer / TV connections

### 3.4 - How do I connect the new targets with the lights?

- the connection is done by the same cable that you may have used in your "old" pellet targets
- it is a standard computer network cat5 cable
- if the connection is done this way, the targets take the electrical power from the LEDs, so no extra power supply is necessary.

### 3.5 - Can we still use the previously bought SIMPOWER or Navistreet LED displays?

- since many federations have bought many of the SIMPOWER lights (displays) one of our major goals was to make these products work with our technology.
- yes, you can use the existing lights with both versions of our targets.
  - the connection with our H&M target is as easy as the air pellet version; just the cable from target to the lights.
  - with the PLT you need an USB adapter in order to connect the lights to the computer.



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### 4 - pricing of the system components

- we have committed ourselves to the modern pentathlon sport and the UIPM.  
For this reason we have put a lot of effort and the best current technology together, to present the most sophisticated laser shooting system ever!
- our special offer to all registered UIPM athletes is an IQ/UIPM-"sponsored" price for the IQ-Container
  - (already available models/brands see: <http://www.iq-sport.tv/en/FAQ/pistols>) and the available targets:

**... IQ-Container, ... 499,- €\* (price for athletes with confirmed UIPM number)**

**... H&M target, ... 298,- €\***

**... PLT target, ... 1.498,- €\***

- our UIPM pricing policy is very simple:
  - we support the UIPM athletes with our production prices.
    - normal calculations would force us to calculate all prices with a factor of 2, in order to regain our development costs in a reasonable time frame.
    - since this would be fatal for your sport and many athletes could not afford this, we have committed to the above "irrational" sponsor activity out of conviction to your sport and hope for your understanding and active promotion at all association levels.

#### 4.1 - all other customers, dealers and

**other interested buyers, please refer to the official price list**

## 4.2 - contact us to learn about our IQ-sport

### "transparent" IQ-range rental solution (IQRRS)

- rent further equipment to your existing solution or a fully equipped IQ-range with:
  - targets
  - target stands
  - lights
  - firing point range- table / roof construction
  - operating staff
  - new laser-"weapon" control devices
  - advertising / refinancing options
  - official UIPM / IQ - CI (corporate identity)
- an easy and affordable turnkey solution



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# UIPM FAQ



## 5 - Accessories

- the IQ Light USB PC adapter  
is needed for the connection of the SIMPOWER or Navistreet lights in connection with the PLT and the connected computer.
- PC wireless USB - dongle  
is used to interact from a PC with some of the training features of the IQ-Containers.
- Laser Power measuring device  
is needed to check the power of the laser beam, necessary for future "weapon" control
- Volt meter  
standard type Volt-meter is used to check batteries from time to time
- Laser calibration unit (LCU)  
may be used for checkups of the size of the laser in 10m distance device will be standard equipment of IQ-technicians
- IQ-Laser Shooting range  
we have some very ambitious plans to create a unique "look and feel" of future modern pentathlon shooting ranges and to enable TV and the rest of the Media to get the most spectacular pictures / insights of your sport. Please contact us for more details and check our news-section frequently.



## UIPM FAQ



### 6 - Software / competitions control

#### 6.1 - Is there a software that can control a complete shooting range with PLTs?

- yes, for the PLT there is a network control unit. In Singapore during the Youth Olympic Games (YOG) we managed 26 ranges with this system and it worked perfectly. The amount of PC's connected to the range control is 99, so there is a lot of potential for huge Pentathlon events.

#### 6.2 - Is it possible to conduct a competition with only H&M targets

- yes, the H&M targets can be attached via cable to the standard UIPM displays (SIMPOWER or Navistreet); these forward the information via cable to a computer system (either Cardsys or EasyPenta); and this enables to conduct competitions just like in the years before IQ-Laser-Shooting.

#### 6.3 - Is the system scaleable?

- yes, from the first day we had smart solutions in mind. Any system can start on a two target basis and can be scaled up until over 50 targets. If you have for example 10 targets and displays, you can rent another 10 systems and conduct a competition, just so.

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## 7 - delivery times


- first in first out
  - special delivery times, see price list / online shop

 [IQ-Shop Login](#)

### 7.1 - Guarantee

- on IQ-parts / IQ-components we grant 2 years of warranty starting with the purchase date.  
Our promise is to handle all cases with utmost care in order to keep our partners and customers satisfied!
- on other parts (e.g. STEYR-Pistol) applies the producer's warranty
- generally every product from an EU company has a warranty of 2 years due to EU regulations.

### 7.2 - Technical problems

- on all technical issues please contact us direct with an Email:  
 [service@iq-sport.com](mailto:service@iq-sport.com)
- we will contact and assist / advise you immediately

# UIPM FAQ



## 8 - IQ System functionality

### 8.1 - IQ System components

- IQ - Container
- IQ - Targets
- IQ - Software
- IQ - Accessories

### 8.2 - how does the IQ system work?

- coded laser information
  - serial number + security code transmission
- wireless code transmission
  - serial number + security code transmission
- wireless computer transmission
  - communication with pistol and target
- secured interaction between all components + all units

### 8.3 - is the IQ-system safe?

- yes, it is the safest system on the market in different ways:
  - all important issues have been certified by official German State institutions
    - CE and TÜV
  - the fail safe functions for the laser have 4 levels (1 level is sufficient according to test specifications)
- the laser is guaranteed & certified class 1
- the constant beam function releases a laser beam class 1, with a power of 1 mW
- the IQ-multiple-channel/base-communication system protects the system against fraud and guarantees the athlete a safe competition
- the IQ-embedded Software guarantees security against "hackers"
- all components are checked individually and as a complete unit

## 8.4 - what does the pistol do?

- in UIPM-shot-mode the pistols fires a laser for 40ms, which is "delayed" in the pistol (as a shot development time) of 10 ms.
  - means: if the shot is triggered, the laser fires a 40ms signal after 10ms to the target.

## 8.5 - what does the target do?

- generally all target types "register" a laser shot
  - + **hit & miss target**
    - it "shows" if the shot has hit the black by taking the time of the "event"
    - IQ-H&M targets communicate back to the IQ-Container and show on the LED a green light for hits and a red light for misses
    - reaction speed of the registration is 10 ms
    - the target "pairs" with the pistol on the very first hit on the black = hit area
      - after pairing, the target takes over the control of the transmissions of and to the pistol
      - each shot is transmitted in a different way, if necessary
  - + **precise laser target (PLT)**
    - it shows the exact position of the laser and registers the time of the "event"
    - through Software modules the PLT can show
      - in training mode:
        - shot groups
        - shot values
      - in competition mode
        - green target for hits
        - red target for misses
    - reaction speed of the registration is 40 ms

## 8.6 - pairing? / anti cross fire?

- once a pistol is "paired" to its target, another pistol can not hit the same target any more
  - this applies for the time until the battery is removed from the IQ-Container (on purpose)
  - and the target is "powered"
  - in order to "unpair" a pistol / target combination remove electrical power from Pistol and target!
- all settings and described features are due to the internal operational IQ-embedded Software and can be changed on demand by our service technicians
  - for relays
  - various reasons

## 8.7 - how are the light displays working?

- generally the LED displays of SIMPOWER and Navistreet work after the same principle:
    - they get an electronic signal from the target device
      - hit = green light
      - miss = red light
- furthermore the UIPM-intelligent LED displays feature:
- timing options such as:

- 70 seconds
- 90 seconds
- 10 seconds prior to timing-end blinking feature
- data transmission to PC programs

## 8.9 - computer system

- WINDOWS 7, WINDOWS XP Software
  - competition modules
- LINUX
  - competition modules
  - wireless control modules

## 8.10 software solutions

- WINDOWS 7, WINDOWS XP Software available for PLT targets
  - further operational Software for
    - enhancement of training
    - easy setup of competitions
    - easy control of competitions
- is in preparation

