

easyTrack200

Next Generation Active Optical Tracking Systems
designed for Researchers and Developers



The **easyTrack200** stands out because of its compact design and high precision. With its small size it is ideally suited for research and development work in smaller workspaces. Its superior accuracy makes it the ideal choice for projects that require only the best that Swiss precision can offer. Open source software and drivers allow you to fully customize your easyTrack.

All easyTrack models are Swiss made and CE (IEC 61326 and IEC 61010-1) certified.

KEY SPECIFICATIONS

| | | | |
|---------------------|------------------|------------------------------|---------------------------|
| Size | 288 x 98 x 65 mm | Accuracy | < 0.2mm RMS |
| Weight | 1.2 kg | Acquisition speed | 300 LED/s |
| Power | 5V, 4W | Delay | < 10ms |
| Power supply | 240V/110V | Markers (4 LEDs each) | 4 internal (+ 8 external) |

EASYTRACK INTERFACES



Left
4 markers connect directly on the system making a strober-box unnecessary



Right
Expansion port (for easyBox)
Power jack
USB port

| | |
|-----------------------------|---|
| Power interface | Power jack 5V (Lemo 2-pin) |
| Computer interface | Plug and Play USB 1.1 or USB 2.0 |
| Data interface | Lemo 19-pin jack to connect to the easyBox or to join up to three easyTracks together |
| Marker interface | Four Redel 9-pin jacks on the right side for all standard 9-pin markers |
| Mechanical interface | Four M5 holes and one ¼"-20 hole for standard tripod mount on the bottom. A VESA style adaptor with handle (see accessories) is also available. |

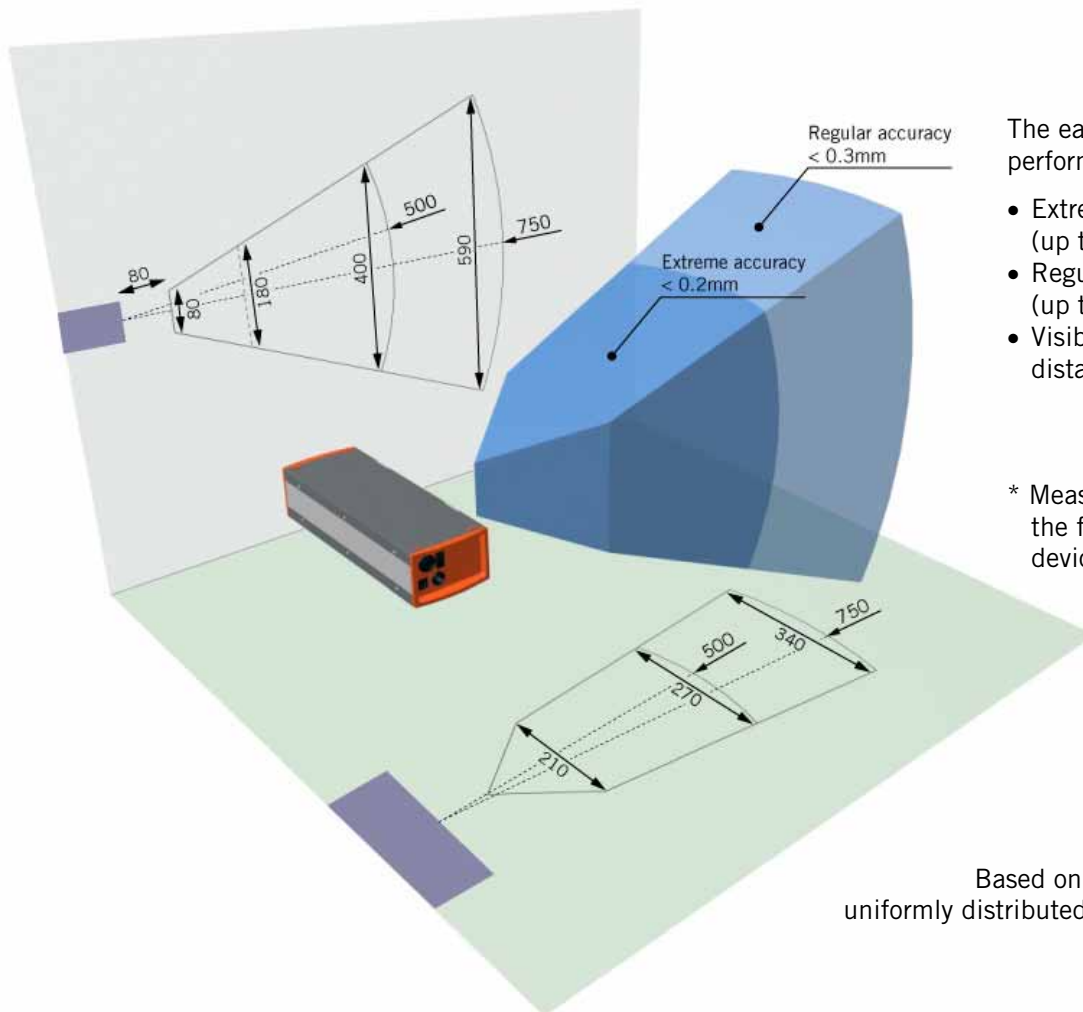
SOFTWARE AND DRIVERS

All software and drivers, including the demonstration program, are entirely open source allowing you to quickly and easily integrate your easyTrack. The easyTrack is directly integrated into MATLAB for even more convenience.

| | |
|-------------------------------|---|
| Drivers (open source) | Win32, UNIX, Linux |
| Demonstration software | Included |
| Programming language | C++, MATLAB |
| Environment | Borland C++ Builder 5.0, Visual Studio C++ 6.0, GCC |
| Code portability | Easily transferred to any C++ compiler and other environments (i.e. Mac OS X) |

High Precision, Open Source, Excellent Value

EASYTRACK 200 SPATIAL VOLUMES



The easyTrack 200 offers three performance levels:

- Extreme accuracy: < 0.2mm (up to 50 cm in distance*)
- Regular accuracy: < 0.3mm (up to 75 cm in distance*)
- Visible zone: up to 3m in distance

* Measured from the center on the front face of the tracking device.

Units: mm

Based on 3,000 measurement points uniformly distributed within the working volume.

ACTIVE MARKERS (See website for full selection of models)



| | |
|-----------------------|--|
| Material | Non-autoclavable for laboratory use Autoclavable for medical applications |
| Attachment | Fixes easily to probes and instruments |
| Calibration | Individual calibration is stored in the EEPROM in the marker |
| Interface | Redel 9-pin plug. Compatible with other tracking systems |
| Consumables | None. Long-lasting LEDs |
| Custom markers | Available Developer's kit also available (see accessories) |

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