



Our lightweight solution for hand-tracking

The Fingertracking2 devices are add-ons to the ART tracking system to track both hands as well as the position of the fingers. It works for up to 2 persons / 4 hands and it is available as a 3-finger and 5-finger version. The synchronization and communication to the Controller is wireless. On top the Fingertracking2 Tactile device (3-finger version only) allows the user to sense collisions with virtual objects, having the VR World at your fingertips!

Technical Data

| Features | |
|--|--|
| Synchronization | via modulated IR flash (from tracking cameras) |
| Battery ¹ | 2 x AAA NiMH batteries (1.2 - 1.5 V, typ. 900 mAh) |
| Continuous operation with tactile feed-back ^{1,2} * | typ. 6 hours |
| Continuous operation no tactile feed- back ^{1,3} | typ. 9 hours |
| Continuous operation no tactile feed- back ^{1,4} | typ. 12 hours |
| Performance | |
| Frame rate (hand target) | depends on camera system, up to 300Hz |
| Frame rate (thimbles, 3-finger version) | up to 100 Hz with hand target @ 300 Hz |
| Frame rate (thimbles, 5-finger version)** | up to 60 Hz with hand target @ 300 Hz |
| Tracking range | typ. 4 - 5 m (depending on focal length of the cameras and LED brightness) |
| Radio module* | |
| Type ID | IEEE 802.15.4 |
| Frequency | 2.4 GHz, 8 selectable channels |
| Transmission power | 3 dBm (2.0 mW) |
| Operating conditions | |
| Operating temperatures | 5 - 40°C |
| Relative humidity | 5 - 85% (non-condensing) |
| Dimensions | |
| Hand target | approx. 72 x 77 x 21 mm |
| Thimble set | available in 4 different sizes (extra-small, small, medium, large) |
| Weight Handset | approx. 55 g (without batteries) |
| Weight Thimbles | approx. 10 g (non-tactile 3-finger version) / 15 g (tactile version) |
| Size of vibro motor* | 2.15 x 8 mm precision microdrive at each finger thimble |
| Battery Charger | |
| Input | AC 100 - 240 V, 50/60 Hz, 0.25 A or DC 9 - 12 V, 1 A |
| Charging time ¹ | Approx. 2 hours |
| Weight (without batteries) | Approx. 0.2 kg |

¹ valid for new batteries

² 150 Hz tracking frequency, LED brightness high, 2 vibrations per 5 seconds (vibrations 1 second in duration)

³ 150 Hz tracking frequency, LED brightness high

⁴ 150 Hz tracking frequency, LED brightness low

* applicable for tactile version

** not applicable for tactile version

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Fingertracking2 (Tactile)



Technical Drawing

all dimensions in [mm] unless otherwise specified

Hand target (both versions):







Finger thimbles (both versions):

