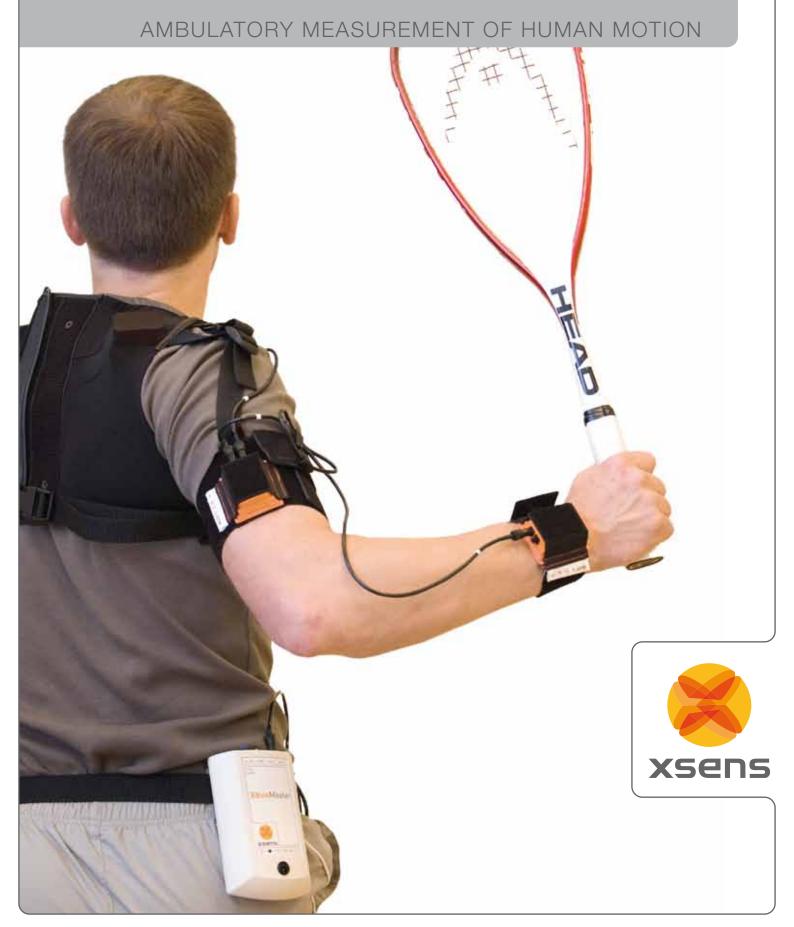
# XBUS KIT



The Xbus Kit is a lightweight, portable system that incorporates the Xbus Master and up to 10 Motion Trackers (MTx), enabling ambulatory measurement of human motion. Controlled and powered by the Xbus Master, MTx's provide drift-free 3D orientation, 3D acceleration, 3D rate of turn (rate gyro) and 3D earth-magnetic field. The Xbus Master samples and sends digital data from the MTx units, wirelessly or via a serial cable, to a PC, where data is recorded using MT Manager or the MT Software Development Kit (SDK).

## **PRODUCT OVERVIEW**

#### **Features**

- The Xbus Master connects multiple Motion Trackers (MTx) on one or two Xbus strings
- Synchronous sampling of multiple MTx's at adjustable sample frequencies up to 512Hz
- Compatible with PC via USB cable or wireless Bluetooth 2.0 connection
- Compatible with Xsens MT Manager and MT Software Development Kit
- External triggering & notification of trigger moment available for synchronization
- Battery operated or mains power supply
- · Low battery indicator
- Internal 64 kByte communication buffer
- Supplies power to MTx's
- Ergonomic design

#### Fields of use

- Biomechanics
- Rehabilitation
- Sports science
- Virtual reality
- Ergonomics
- Animation

The Xbus Kit combines a set of MTx's, an Xbus Master and a wireless transceiver enabling completely ambulatory measurement of human motion. The MTx's provide drift-free 3D orientation as well as: 3D acceleration, 3D rate of turn (rate gyro) and 3D earth-magnetic field. The Xbus Master samples and sends synchronous MTx data to the PC. Xsens' MT Software and SDK are Xbus Master compatible.













# TECHNICAL SPECIFICATIONS XBUS MASTER

#### Type

Product code

#### Xbus

Max. number of MTx's Type of MTx's

Sample frequency

Sample frequency example configuration Number of Xbus connectors on Xbus Master

#### Host interface

Cable type
Wireless type
Typical range radio

#### Power

Operating voltage Power Batteries

Minimum battery powered operating time Power Adapter (EU, UK, US)

# Physical specifications

Dimensions
Weight (incl 4x AA batteries)

### **Xbus Kit**

The Xbus Kit contains:

- Xbus Master
- 5 MTx's (also available in other quantities)
- MT Manager and Software Development Kit
- Accessories:
  - 5 Xbus Cables
  - Xbus Master Cable USB
  - Power Adapter
  - 4 AA Rechargeable Batteries
  - Belt
  - Bluetooth Transceiver USB
  - Suitcase

## **Optional**

MVN STRAPS (for easy sensor fixation)

XM-B-XB3

10 (20 with 2 synchronized Xbus Masters) MTx Xbus version (MTx-49A##G##) (See MTx brochure for Technical specifications) Adjustable from 10-512 Hz (max. depends on number of MTx's used) 150 Hz (5x MTx, raw data output, Bluetooth mode) 2 (enables 2 Xbus strings)

RS-232, USB Bluetooth v2.0 (Serial Port Profile) 100 m (Max. output power 100 mW)

4.5 - 12 V 2.7 W (5x MTx, Bluetooth mode) 4x AA 2700 mAh, rechargeable NiMH (included) 3 hr (5x MTx, Bluetooth mode) 12 V DC 1A

 $10 \times 15 \times 4 \text{ cm (W x L x H)}$  330 g (200 g excl. batteries)









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