

Suit & Bundles

Synertial is proud to introduce our 4th Gen suits. We have perfected every possible aspect of inertial motion capture and now offer a variety of essential new features and options not available anywhere else.

You can now track the absolute position of any of our suits or gloves with The Hybrid for super-accurate root-positioning. Our Optinertial option lets bundle a suit with a pair of 7, 12 or 15 sensor gloves to include finger capture. Use our new Optinertial technology to perfectly synchronize our systems with optical mocap for occlusion free data that is post production ready.

In addition to state of the art electronics, our new Cobra system pipeline uses Kinexact-HW/SW to extract an accurate skeleton file of body and/or fingers as well as a patent pending adjustable jig for precise finger Initialization.

Unsurpassed Magnetic Immunity, high capture rates, minimal latency, kinematic accuracy tools and clean data set our system apart as the only truly professional solutions available for inertial motion capture.

Worldwide Sales

lee.dickholtz@synertial.com

Corporate Enquiries

ali.kord@synertial.com

Head Office

Synertial UK
Quayside Offices,
Basin Road South
Brighton, UK
BN41 1WF

USA Office

Synertial US
4096 Piedmont Ave.
#272, Oakland,
CA USA

www.synertial.com

+1 (800) 676-4380

+44 (0) 1273 4174440

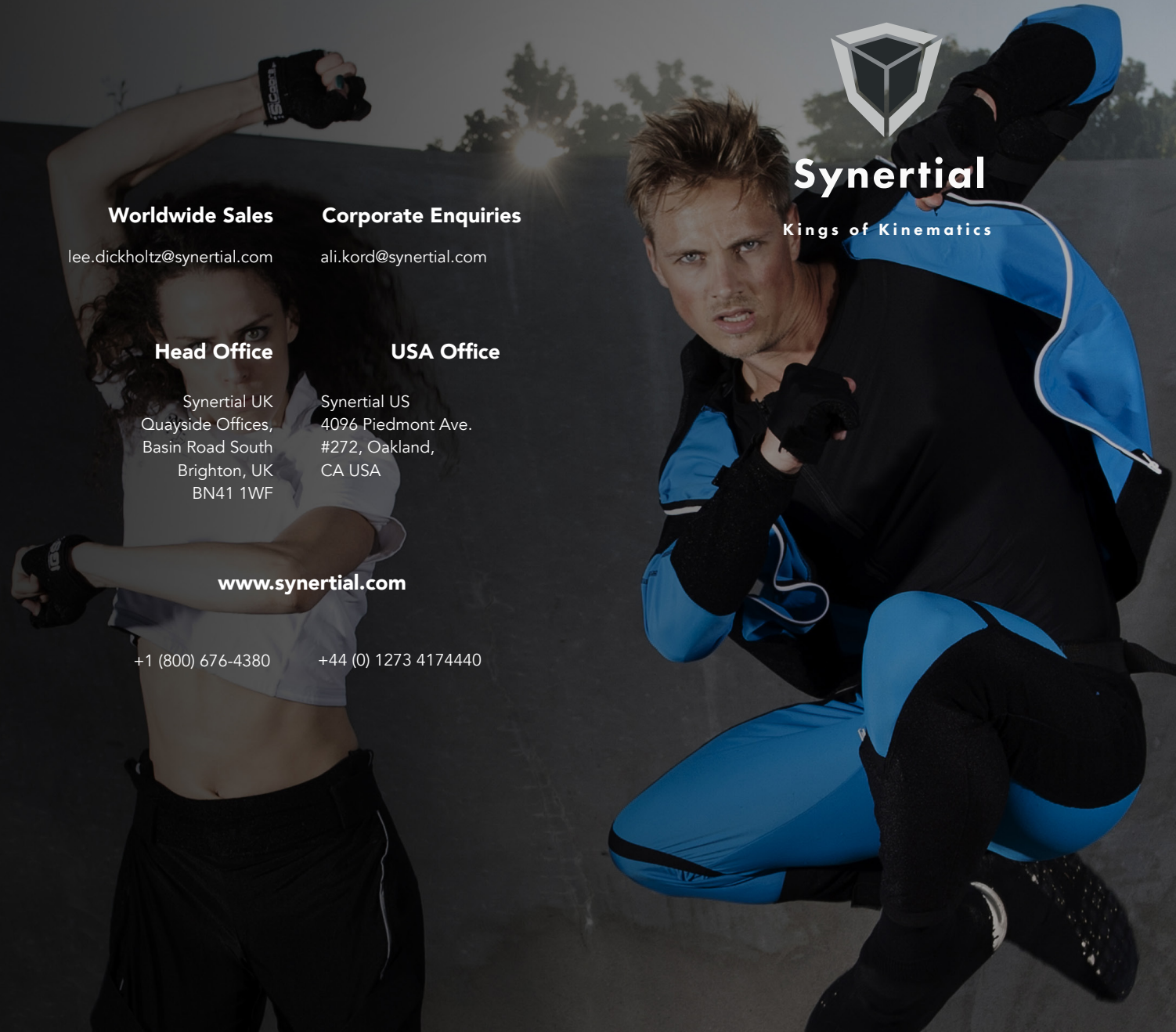
New Cobra Mocap Suits

HYBRID TECHNOLOGIES



Synertial

Kings of Kinematics





Next Gen Hybrid Tech

Synertial's commitment to make the best possible solutions for inertial motion capture has yielded The Hybrid solution. This brings absolute position tracking to any Cobra product together with Vive's laser Lighthouse technology. IMU root sensor drift is now gone for good.

You buy the Vive, we provide the sensor arrays and the software to combine optical data with Lowest Point Algorithm (LPA). You end up with the easiest, fastest and cleanest method possible for producing sensational motion capture results.

RELIABLE

- Introduced the first commercial inertial suit in 2004
- v14 Softwear
- Powerful Sync & Hybrid technology
- Robust SDK

HYBRID

- HTC Vive Lighthouse
- Customized optical sensor arrays
- Robust softwear
- Footstep Editor for fine tuning

SYSTEM

- Wi-Fi
- Extra IMU's
- Fastest, Cleanest Data
- Skeleton File Maker GUI
- Initialization Jigs for finger capture accuracy
- Optical Sensor Array Rigid Body Belt
- Auto Configured Wi-Fi Settings
- Manage 4 Suits per screen
- BVH, FBX formats
- Unity, UNREAL, MoBu, Siemens & Jack

Specs

Latency under 10ms

16g accelerometer range

2000 deg/sec gyroscope range

0.004 degrees' resolution

120 fps (240 fps optional)

Wired via USB

Raw Data (Acceleration, Velocity, etc) readout for up to 10 IMUs

Input Voltage 5vDC

External 2,300 mAh Hub Batteries with hot-swap

SDK library written in C/C++

Self-calibrating sensors

Multi-actor capture (upto 8 suits or more)

Easy-to Use-Footstep Editor for exactness of foot-steps

Open Kinematics (arbitrary configurations for animals, armatures, robotics, etc.)

Dimensions and weight: 11 x 16 x 9 mm (2.5 grams)

Static Accuracy:

1degree Roll and Pitch, 2 degrees Yaw