

Great new developments in real-time 3-D Motion Capture from Charnwood Dynamics

The advanced *codamotion* system really is motion capture on the move as a new level of portability has been designed into a system already widely accepted as a benchmark for accuracy, reliability and state-of-the-art technology.

In over a quarter of a century of development, Charnwood Dynamics has established itself as a leading supplier of real-time motion capture solutions for clinical research applications, gait analysis, biomechanics, sporting evaluations, equipment analysis, ergonomics, film makers and game developers. Its *codamotion* systems are in operation in organisations and industries throughout the world, where continuous assessment and feedback is incorporated into all new developments.

What makes this advanced system so flexible, transportable and easy to use is the redesign of the main sensor unit, the **CODA cx1**. It now contains an advanced level of processing capability previously carried out by the main computer. This important development means that the computer specification to operate the system has been reduced from an industrial requirement to that of a standard laptop or host PC.

And, it can now be operated using an inbuilt, rechargeable 12 volt battery, so that anywhere motion capture is required, *codamotion* can quickly provide it wherever the point of measurement is.



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The fact that the system is precalibrated means that it is the most user-friendly system available and can be set up and operating in a matter of minutes.

The advanced system means that motion capture in the field is now easier than ever before, whatever the location. Sporting activities spring to mind as a perfect application example to benefit widely from the new features. Multi location organisations also gain great advantage as the system can be taken to wherever it is required and operated instantly without the need for a dedicated laboratory set-up.

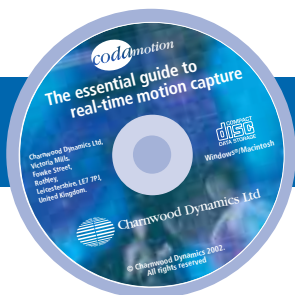
No 'spaghetti' either as the power and computer wiring is now contained within a single cable. This is not only a lot neater but also contributes to the new ease of set-up.



High quality advanced components and the introduction of new digital marker technology means that real-time is just that. It now only takes an incredible 0.5 milliseconds for the marker position data to be output, so multi-channel, tightly coupled, control of external devices is now possible at this same low latency.

The advanced digital marker boxes contain crystal controlled counters that provide enhanced precision in the timing of the flashing LED's, adding further to the high level of accuracy and the low latency of the system.

Precision, accuracy, reliability and quality manufacture is a priority with every *codamotion* system. The level of worldwide service provided by the Codamotion team has always been of the highest quality, a measure of which is demonstrated by the freely available CD-Rom, '*The Essential Guide to Real Time Motion Capture and Analysis*'.



Visit our new website www.codamotion.com and order your complimentary copy of the 'Essential guide to real-time motion capture' CD-ROM from Charnwood Dynamics Ltd..



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Motion Capture