Cara
Clarity. Performance. Flexibility.
Pioneering motion capture since 1984.
Vicon Cara is the world's first out of the box 3D facial motion capture system. With a custom made HeadRig built for actor comfort, four HD cameras and optional on-board lighting, Performance Capture has never been so easy.

**Clarity**
With up to four high resolution, high speed cameras synchronously capturing every nuance, and custom built on-board lighting, Vicon's Cara facial motion capture system will ensure you don't miss a thing. Whatever processing pipeline you use, the clear, high quality image data captured with Cara gives you the best possible starting point.

Proprietary calibration and tracking algorithms ensure post processing of the data results in clean, accurate trajectories making onward pipeline work much faster, saving time and money. Timecode support allows ease of management of the data in your performance capture pipeline.

**Performance**
Cara is all about getting the performance. Each component of the system has been designed from the ground up to the highest specification enabling capture and tracking of facial movements with the finest possible fidelity whilst allowing the actor freedom of movement and expression.

The Cara system has been engineered to ensure on-set reliability and actor comfort. Openness of design allows the performer and director to concentrate on the performance and not the technology.

**Flexibility**
Cara has been designed as a truly modular system. You can choose to use your own headgear with the Cara hardware; you can use one, two three or all four cameras, whichever best fits your needs; you can use the CaraPost processing software to output high quality 3D data or use the images straight from the logger and pass the output through your own processing pipeline or third party software. Cara can be adapted to fit into many scenarios.

**CaraLive**
CaraLive is the software at the heart of the Cara system during setup and capture. CaraLive allows the user to control, manage and monitor the system and the setup and capture processes. Wireless streaming provides constant monitoring of the images being captured.

Color coded feedback of system status alongside live system alerts provide continuous information as to what's going on, allowing action to be taken when necessary. Whether you're capturing marker based images for use in CaraPost or elsewhere, or you just want high quality images for another processing pipeline, CaraLive gives control and confidence at all times during the capture day.

**CaraPost**
CaraPost provides the engine and the tools to extract high quality 3D point data from marker based CaraLive capture footage. Using the images and calibrations created with CaraLive, CaraPost automatically identifies the markers and tracks them over time. It then creates a 3D point representation of the markers on the actors face ready for export into the users' choice of 3rd party software or retargeting and solving pipeline.

A few button clicks is all it takes to automatically track markers and create 3D data but CaraPost also provides tools for semi-automated or supervised tracking. All this adds up to a huge time and effort saving in processing 3D facial capture data.