

Plug&Play Retrofit CMM Motion Controller



Chameleon is the most advanced retrofit CMM motion controller on the market. As per its name, Chameleon can disguise itself as the original controller of most CMM brands.

Benefits



Keep your existing software and part-programs untouched

Retrofit your CMM without the need to do any software upgrading, part-program rewriting, or I++ protocol adaptation



Versatility

Mediator can work with several different inspection software installed on the same PC.



Superior performance

Increase your CMM productivity with up to x2 faster scanning speed and up to x10 sampling rate



Dramatically reduce retrofitting time & cost

No need for cable cutting, rewiring work, or conducting full calibration. Retrofitting to Chameleon may take less than 1 day!



Future Proof

Make sure your CMM can support any advanced future sensor

Features

Retrofit without Software Changes

- No need for software upgrading, part-program rewriting, or I++ protocol adaptation

Superior Performance

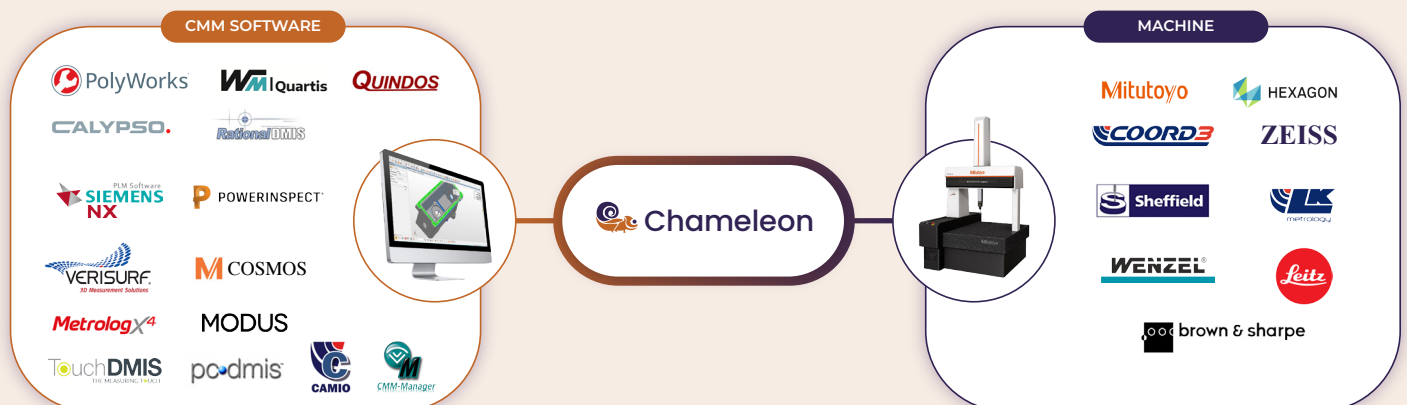
- Up to 2x faster scanning speed
- Up to 10x sampling rate

Reduce Retrofitting Time & Cost

- No cable cutting or rewiring work
- Quick calibration, re-using existing error-map
- Retrofitting takes less than 1 day

Future Proof

- Supports advanced optical sensors (current and future)



Software Compatibility

Chameleon natively communicates with all leading CMM software, including:



Plug & Play Compatibility

Chameleon is available with compatible back panels for:

Hexagon FB2/B3C Hexagon DC/RC
Renishaw Mitutoyo



Plug&Play Retrofit

- No cable cutting or rewiring required
- Back panel connectors are compatible with Mitutoyo, Renishaw and Hexagon connectors
- Simplifies retrofitting process

Error-map Recycling

- Reuses former error-map of replaced controller
- Skips time-consuming 21-parameters full calibration
- Quick squareness and linearity compensation

Advanced Sensor Support

- Supports line-laser, confocal, and structured-light sensors
- Designed for future sensor technologies

Performance

- Better performance without compromising accuracy
- Smooth 3D trajectory movement
- High sensor sampling rate for known and unknown scanning

Technical Specifications

- **Native Software Communication (No I++ protocol):** PC-DMIS, Mcosmos, Calypso, TouchDMIS, Verisurf, Polyworks, Camio, Quartis, CMM Manager
- **I++ Protocol Support:** yes
- **Number of CMM Axes Controlled:** 3 or 4
- **Temperature Sensor Inputs:** 10
- **Maximum Sampling Rate:** 2500 points/sec
- **General I/O:** 4 Inputs + 3 Outputs
- **Emergency Stop:** yes
- **Communication Type:** Ethernet
- **Digital Scale Input:** Digital and Analog (sin/cos)
- **Dimensions:** Width: 425mm (19" enclosure), Height: 175mm (4U), Depth: 445mm
- **Error-map Support:** Hexagon (DEA + B&S), Zeiss, Mitutoyo, Renishaw, Wenzel, LK, Sheffield
- **Touch-trigger Probe Support:** TP20, TP200 SP25, SP600



About easyCMM

EasyCMM is a pioneering technology company dedicated to revolutionizing the Coordinate Measuring Machine (CMM) industry. With over 40 years of experience in metrology, we leverage our deep technical expertise and strong partnerships with leading CMM vendors and service providers. Our innovative solutions enable seamless integration and interoperability across various CMM brands and software, reducing costs and enhancing efficiency for our clients.

At EasyCMM, we are committed to delivering cutting-edge technology that extends the lifespan of your CMM equipment and optimizes your calibration and retrofitting processes.

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