

STEVE-6D

Automatically test the image stabilization of your camera

The Stabilization Evaluation Equipment (STEVE) uses six degrees of freedom to test the optical image stabilizers of your camera. This device can analyze the camera's response to a natural human hand tremor. STEVE can also be optimized for camera shaking measurements in other applications, such as automotive systems.

Main Features

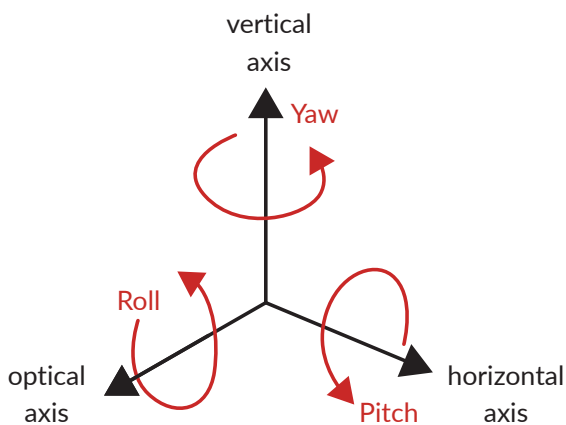
- * Six degrees of freedom
- * Control software
- * CIPA certified



STEVE-6DL

Camera shaking measurements

STEVE is originally designed to test how well the image stabilizers in a camera system respond to natural human hand movements. However, as cameras have become more prevalent in other industries, we have begun optimizing STEVE for camera shake measurements for these applications. Autonomous driving systems, for example, need to be tested for their response to uneven road conditions.



Directions of movement

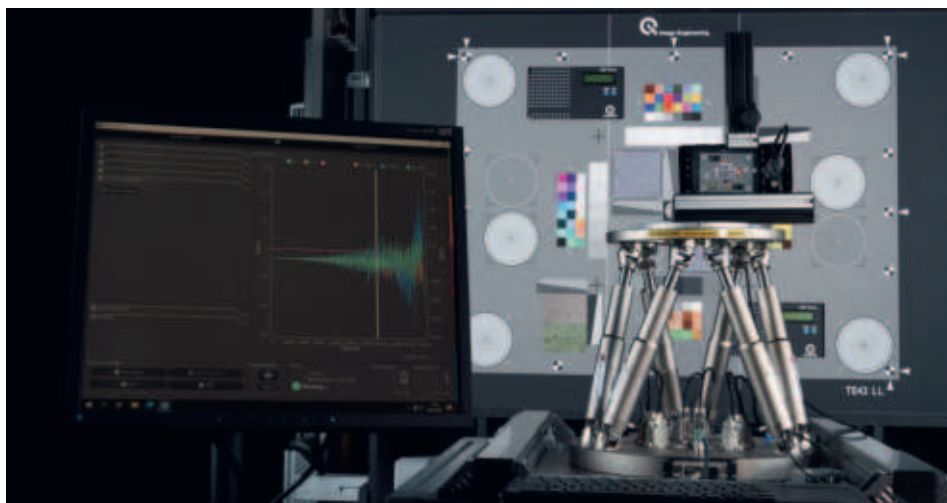


OIS test with the STEVE 6D and the iQ-AF Box

*Check out this blog article for more details: <https://image-engineering.de/library/blog/articles/1215-measuring-camera-shaking>

ISO 20954

ISO 20954 describes a camera measurement procedure with manual control and optical image stabilization. The CIPA handshaking profiles determined for lightweight, mid-weight, and heavy-weight cameras are used depending on which camera is tested. The TC42 WG18 is now working on an annex to the standard to describe how different applications can be generated and applied.*



OIS test with the STEVE 6D and the TE42-LL-Timing

STEVE-6D software

The STEVE-6D software uses two modules: the vibration control module and the data analysis module. The vibration control is used to control the movement of the device. The analyze data module calculates the image stabilization performance using a metadata tool.

At a Glance	STEVE-6D
Max. camera weight	6.0 kg (CIPA certified)
Pivot point	Customizable
Travel range (X / Y / Z)	± 50 mm, ± 50 mm, ± 25 mm
Rotation range (X / Y / Z)	± 15°, ± 15°, ± 30°
Max. linear velocity (X / Y / Z)	50 mm/s
Max. angular velocity (X / Y / Z)	600 mrad/s
Single-actuator design resolution	0.5 µm
Motion type	6-axis sine generator or custom waveform
Mean position error	< 3%
Standard accessories	Motion controller C-887, iQ-Trigger, iQ-Mobilemount
Optional accessories	iQ-Trigger/-T, iQ-AF Box, TE261, Honeycomb Breadboard, iQ-Anchor for STEVE

*Learn more from the ISO website: <https://www.iso.org/standard/91285.html>