

CAM'n'BR®, automation of pendulum readings



CAM'n'BR®, for *Contrôle Automatique des Mouvements sur Bâtiments et Réservoirs* (Automatic Inspection of Movements in Buildings and Tanks), is a product created and built by SITES. Its aim? To provide an easy solution for the automated and continuous measurement of movement in buildings, relative to a reference point consisting of a taut wire.

CAM'n'BR® is especially well adapted to the surveillance of structures during trials, tests or procedures that require precise and continuous monitoring (hydrotesting, filling, containment wall testing ...)

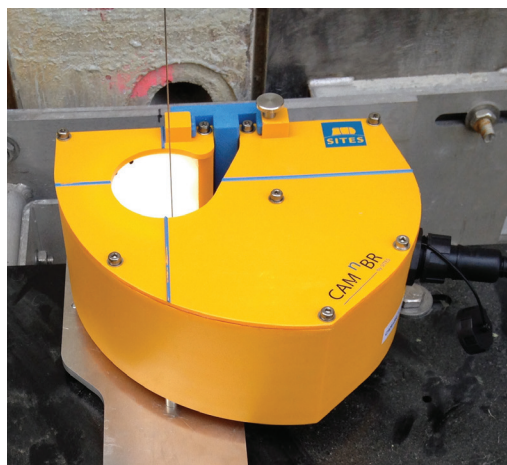
Applied to direct or inverse pendulum systems, it also offers you the possibility to carry out manual measurements.

CAM'n'BR® is adapted to any structure requiring monitoring of relative and/or tilting movement, like tanks, monuments, dams, nuclear reactor buildings...

Operating principle and advantages

CAM'n'BR® uses two video cameras which film the stainless steel or invar wire on a background featuring reference points. The position of the wire is determined in the plane perpendicular to the wire (X,Y) using converging photogrammetry. Collect your measurements with an external PC or a robot (USB and IP communication) Coming soon: the evolution to Z will also be possible thanks to the addition of a ball on the wire.

- › Installed on an existing table without disturbing the wire or the measurements.
- › Precision of the measurement.
- › Stability.
- › Measurement of the evolution of Z (in the case of invar wire extensometres).



Technical data

Field of measurement: XY: Ø 60mm, Z +/- 20mm
Resolution: 0.01mm
Precision: 0.1mm
Rate of readings: 1 minute to several days
Operating temperature: 0°C to 50°C
Sealed against water splashes and dust