

Compact Measuring System for 3D Real Time Motion Analysis



The 3D motion analysis measuring system CMS10 was designed as a compact device for everyday use.

The entire electronics is housed in the measuring sensor without requiring any additional table device.

The measuring procedure is based on the travel time measurement of ultrasonic pulses that are emitted by miniature transmitters (markers) to the three microphones built into the compact device.

A socket for the power pack (supplied with the device) as well as the interface to the com-

puter are located on the back of the device.

The evaluation and display of the measurement data are carried out in real time.

It is possible to use either a table clamp or a mobile floor stand with two joints for the measuring system.

Besides the pure data-acquisition program, "WinData", there are different user modules available for measuring the spinal column, posture analysis, movement analysis of the hand and arm function and for analyzing of the equilibrium.

- The CMS10 3D compact motion analysis system is based on the principle of the travel time measurement of ultrasonic pulses
- 6 marker channels
1 digital input channel
Real time operation via PC
USB interface
- Using either a floor stand or table clamp
- Measuring rate up to 200 Hz/number of markers
Measuring distance up to 1.5 m

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Technical Data

System CMS10

Dimensions basic system:	240 x 255 x 50 mm (W x H x D)
Weight:	approx. 0.75 kg
Max. number of marker channels:	6
Buffer memory:	60 KB
Digital entrances:	1
Interface to PC:	USB
Measurement rate:	max. 200 Hz / number of selected markers
Measurement distance:	up to 1.5 m
Marker entrances:	4 singles, 2 x 3 complete
Power supply:	separate adapter

Ultrasonic Markers

Ultrasonic markers are available in different sizes

US marker:	10 x 8 mm, 1 g
Standard cable length:	1.25 m
Emission angle:	min. 120 degrees
Frequency:	40 kHz

A series of accessories (e.g. ultrasonic pointer) are available.