

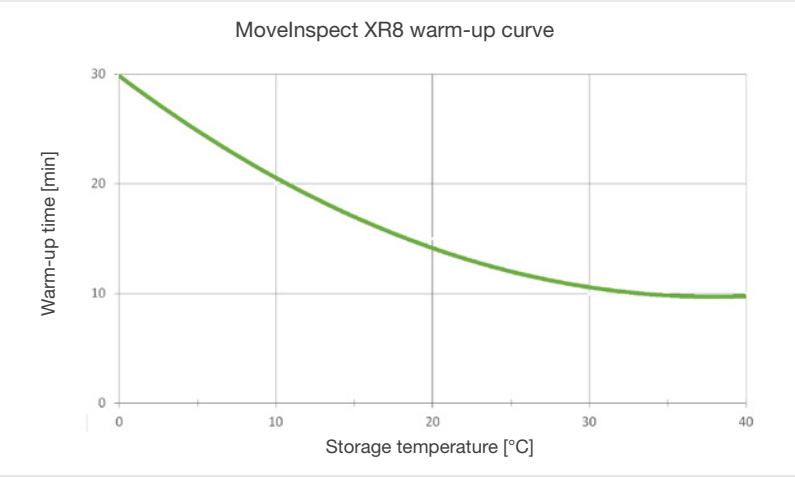


MoveInspect XR8

Hardware

Sensor resolution
Protection class
Illumination
Operating temperature
Operating humidity
Sensor size
Sensor weight
MI.Probe weight without Extender
Control unit
Processing unit
Accessories
Warm-up time

Two 8 megapixels XR cameras
IP51
Internal infrared illuminations, independent from environmental lighting
+ 5°C to + 45°C room temperature (without condensation)
10 - 90 %
1,200 mm x 240 mm x 130 mm
11.5 kg
850 g
Syncbox for up to 2 XR8 sensors (cascadable), external synchronization, power supply 90 - 240 V or 12 V (on request)
High-end notebook (industrial pc possible) with Microsoft® Windows® 7 (64 Bit) and Microsoft® Windows® 10 (64 Bit)
Transportation box, MI.Probe with equipment and transportation box, calibration tool, tripod with bag, coded and uncoded targets
Highest accuracy after 30 minutes at the latest

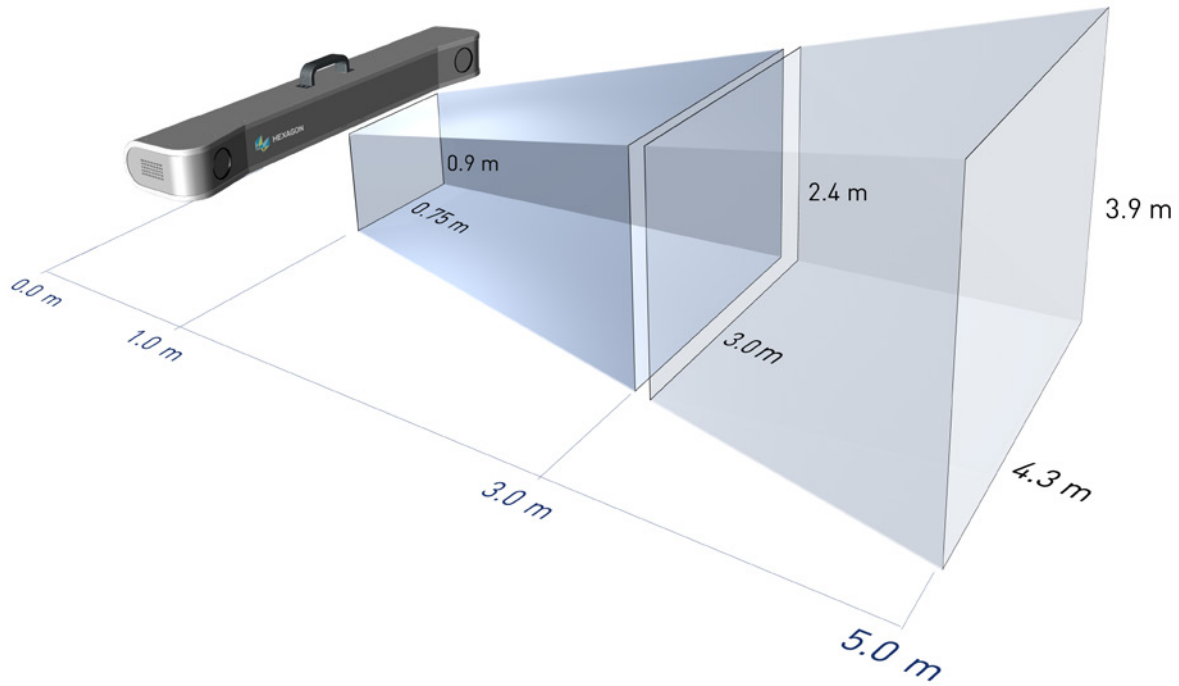


Software

Interfaces
Measuring modes

Interfaces i.a. to 3D inspection software like PolyWorks®, Spatial Analyzer®, PC-DMIS (in preparation), Metrolog, PowerInspect, Geomagic® Control™, BuildIt
Realtime interface for transfer of 3D and 6DoF coordinates
Probing, tracking





Accuracy

Specified range ^{a)}

Extended range

Single point accuracy 2σ ^{a)}

Volumetric accuracy 2σ ^{a)}

2D ^{b)}

3D ^{c)}

1 - 3 m, at measuring volume of 6.7 m³

3 - 5 m, at measuring volume of 23.3 m³

5 μm + 5 $\mu\text{m}/\text{m}$ ^{b)}

5 μm + 20 $\mu\text{m}/\text{m}$ ^{c)}

20 μm + 20 $\mu\text{m}/\text{m}$ ^{b)}

20 μm + 30 $\mu\text{m}/\text{m}$ ^{c)}

Subject to change without notice. Version: 03/2017

ASME B89.4.22-2004

Two main parameters are distinguished: single point accuracy (repeatability) and volumetric accuracy (absolute length deviation on an artifact). The indicated numbers are equal for tracking and probing within the specified range A-B.

Single point measurement / precision

This value represents a measure of the system's repeatability: single points are measured (whether in tracking or probing) within the volume based of 50 measurements of identical target and the maximum deviation from the mean is given

Volumetric accuracy

This value represents the absolute accuracy of the system. The artifact, which is realized as a DAkkS calibrated scale bar, is placed inside the measurement volume at discrete positions, 10 Positions of the artifact (reference scale) in 2 distances from camera beam. The maximum deviation against the calibrated length of the artifact is then a measure of the volumetric accuracy (length deviation).

Certified and extended range:

Numbers indicated in the specification are only valid for the specified range.

^{a)} Test procedure following ASME B89.4.22-2004 with 500 mm artifact

^{b)} In plane, parallel to sensor

^{c)} In depth