



NEW

# PrimeScan

Scanning. Simple. Precise.

## The **attractive entry** into white light scanning

For three-dimensional surface acquisition, white light scanning is a well-established procedure both in industrial and non-industrial applications. Using the contact-free optical scanning technology, even complex surface structures are captured swiftly and at a high level of accuracy. AICON scanners are versatile thanks to their exceptional mechanical and thermal stability. They are known for both extraordinary sturdiness and highest precision.

With the new scanner line PrimeScan, AICON 3D Systems provides an attractive entry-level solution for highly precise 3D digitization of industrial components. The PrimeScan is an entirely new development. Like the classical high-end scanner lines SmartScan and StereoScan, it is based on the fringe projection technology that provides the strongest luminous power and the best projection quality.

The PrimeScan works with the renowned AICON OptoCat software, and thus uses the same algorithms for fast creation of highly precise point clouds with highest data quality as SmartScan and StereoScan.



## The perfect configuration for each application

The scanner line PrimeScan offers 24 fixed configurations with different resolutions and measuring fields – the perfect solution for every measuring task. It is equipped with either blue-light technology for industrial applications or white-light technology for scanning with additional color information, as required in arts, culture and design.



The PrimeScan has a compact design: the base area equals a DIN A4 sheet, and the scanner weighs about 3 kg only. The working distance is short. Thus, the PrimeScan is the ideal device for easy and uncomplicated scanning in special application areas, as e.g. on a desktop or in narrow environments like industrial surroundings.

Correspondent accessory enables both automated measurements and easy acquisition of large volumes.

## High-resolution sensors for high precise digitization

Depending on the required resolution and precision, different camera resolutions are available: two, five or eight megapixels. The high-resolution sensor technology guarantees the maximum degree of detail for the object acquisition process. Measuring fields between 50 mm and 1,000 mm are available. Hence, every component size can be optimally captured.

The particularly powerful projector allows for the scanning of glossy and dark surfaces without pre-treatment. The integrated laser pointers support the easy positioning of the measuring object.



## PrimeScan

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### YOUR ADVANTAGES AT A GLANCE:

- ✓ Economic entry-level solution
- ✓ 3D scanning at the highest precision
- ✓ Compact design, low weight
- ✓ Short working distance, ideal for applications in narrow environments
- ✓ 24 fixed configurations for most diverse measuring tasks
- ✓ 12 measuring fields for every component size
- ✓ High-resolution sensor technology for maximum level of detail
- ✓ Scanning of glossy and dark surfaces without pretreatment
- ✓ Applicable with photogrammetry

### Technical data

|                        |   |
|------------------------|---|
| Camera resolution      | 2 x 2 Mpx, 2 x 5 Mpx or 2 x 8 Mpx                       |
| Projection unit        | Miniaturized projection technique                       |
| Projection resolution  | 28 Mpx  |
| Light source           | 100 W high-power LED (blue or white)                    |
| Fields of view         | Between 50 mm and 1,000 mm (according to configuration) |
| Acquisition time       | 1 second  |
| Sensor weight          | Up to 3.8 kg (according to field of view size)          |
| Dimensions (W x D x H) | 300 mm x 210 mm x 175 mm                                |
| Power supply           | AC 110/230 Volt, 50-60 Hz, external, 150 W              |
| Control unit           | Integrated, USB 3.0                                     |
| Accessories            | Movelspect DPA, scanreference, turntable, tripod        |



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For more information contact: **Accurex Measurement Inc.**  
phone: 1-800-535-5798 E-mail: [info@accurexmeasure.com](mailto:info@accurexmeasure.com)  
[www.accurexmeasure.com](http://www.accurexmeasure.com)

[www.accurexmeasure.com](http://www.accurexmeasure.com)

AICON 3D Systems GmbH  
Biberweg 30 C  
D-38114 Braunschweig, Germany  
tel. +49 (0)531 58 000 58  
[info@aicon.de](mailto:info@aicon.de) | [www.aicon3d.com](http://www.aicon3d.com)