

NEWS RELEASE

KONICA MINOLTA SENSING AMERICAS INTRODUCES NEW RANGE 7 NON-CONTACT 3D DIGITIZER

The Range 7 is a top level highly accurate 3D scanner for industrial applications.

Ramsey, NJ – January 28, 2008 – Konica Minolta Sensing Americas, Inc. (KMSA), a worldwide leader in the industrial measurement of color, light and shape, announces the launch of the RANGE 7, the first product of a new series of high-performance 3D scanning instruments to meet the needs of the industrial inspection, manufacturing, and quality control segments in various industries. The RANGE 7 is a high speed, high accuracy, non-contact 3D digitizer enabling companies to exchange 3D CAD data.

KMSA and the RANGE 7 continue to build on the success of its VIVID line of digitizers introduced in 1997. Since then KMSA has led the way in the non-contact 3D digitizer market with the introduction of the VIVID 300, VIVID 900 and VIVID 9i in diverse applications such as the measurement of cultural artifacts and the human body.

The Konica Minolta RANGE 7 offers not only high performance but also excellent operating characteristics. It has a compact, light weight (approx. 6.7kg) design that is less than 1/2 the size and weight of previous models to provide high mobility at measurement locations. The RANGE 7 can take high-speed scans of approximately 2 seconds per shot and utilizes interchangeable lenses to provide a broad scan range. In addition, it is equipped with a multi-focus mode driven by advanced focusing technology available only from Konica Minolta to enable high-quality measurements to be obtained with ease. In addition, the RANGE 7 features a 3D preview function to let users quickly predict what the measurement results will be like and a navigation function to guide users through the measurement process in the software.

RANGE 7 Features:

Provides high accuracy of $\pm 40\mu\text{m}$ and high reliability unaffected by the environment where it is used.

Utilizing a new 1.31 megapixel CMOS sensor that can detect finely detailed shapes as well as newly designed optics, the RANGE7 achieves the highest level of guaranteed accuracy for a non-contact camera type 3D measurement instrument, with an accuracy of $\pm 40\mu\text{m}$ according to ball bar accuracy testing based on VDI/VDE 2634 guidelines. In addition, the RANGE7 has been designed with the concept of on-site use, minimizing the influence of instrument tilt, temperature changes, etc. at the time of measurement in order to provide high reliability in actual use environments such as in factories, etc. Further, the new sensor and original measurement algorithm provides an expanded dynamic range. Even objects with gloss, such as metallic surfaces, etc. can be measured.

High-speed scanning of approximately 2 seconds per shot and various other new functions provide improved operating characteristics.

Original high-speed processing circuits enable high-speed scanning of approximately 2 seconds per shot. TELE and WIDE lenses can be interchanged according to the measurement subject to provide a broad scan range. In addition, the RANGE7 is equipped with a 3D preview function that lets users predict the measurement results and check for scan area depth, dead angles, scan problems due to surface conditions, etc. beforehand to greatly reduce scanning mistakes. Plus, the autofocus (AF) function has further advances that only Konica Minolta could provide, with a multi-focus mode that automatically shifts the focus position to provide sharp, high-accuracy 3D measurement data and a point AF function that adjusts the focus to the point specified by the user, enabling scanning work to be performed without being concerned with fine positioning of the measurement subject.

Compact, lightweight (approx. 6.7kg) design is less than 1/2 the size and weight of previous models.

The size and weight of the RANGE7 are both less than 1/2 those of previous models, and the compact, lightweight design enables the camera and controller to be integrated in a single body weighing approximately 6.7kg to provide high mobility in measurement environments. In addition, when the optional special stand is used, the RANGE7 can be easily moved about and measurements taken when necessary for stress-free work. (Of course, as with previous models, a tripod can also be used.) Plus, user calibration can be performed with the RANGE7 mounted on the stand.

Newly developed scanning software can handle large volumes of data and provides improved operating characteristics.

The newly developed 3D data-processing software RANGE VIEWER controls RANGE7 scanning and provides editing functions from measurement data alignment to merging. RANGE VIEWER employs a new GUI that provides seamless operation between scanning work and scan data editing work. In addition, RANGE VIEWER is Windows Vista 64-bit compatible, enabling the handling of large volumes of data. Plus, the navigation function displays operating methods and procedures in a navigation window, so that even first-time users can operate the RANGE7 quickly and easily.

Konica Minolta Sensing Americas, Inc. (KMSA)

A wholly-owned subsidiary of Konica Minolta Holdings USA, Inc., Konica Minolta Sensing Americas, Inc. is a top-tier company in the measurement of light and color and precise representation of shapes and dimensions. The company developed and introduced the first portable spectrophotometers and colorimeters, adding new dimensions of convenience and functionality and dramatically changing the way light, color and appearance, and shape dimension is measured. Products include colorimeters, spectrophotometers, spectroradiometers, 3D digitizers, display products and more. The thousands of companies that use KMSA instruments range from food, plastics, paints and

coatings, automotive, to cosmetics companies. 3D digitizers are used in medical, surgical and dental applications as well as, industrial design, game software development, animation, virtual reality, architectural, inspection, reverse engineering, rapid prototyping and fashion applications.

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