

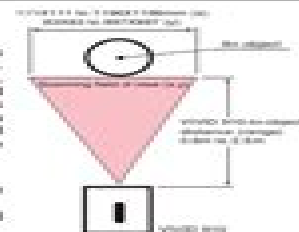
Theory of Operation

Basic Principle

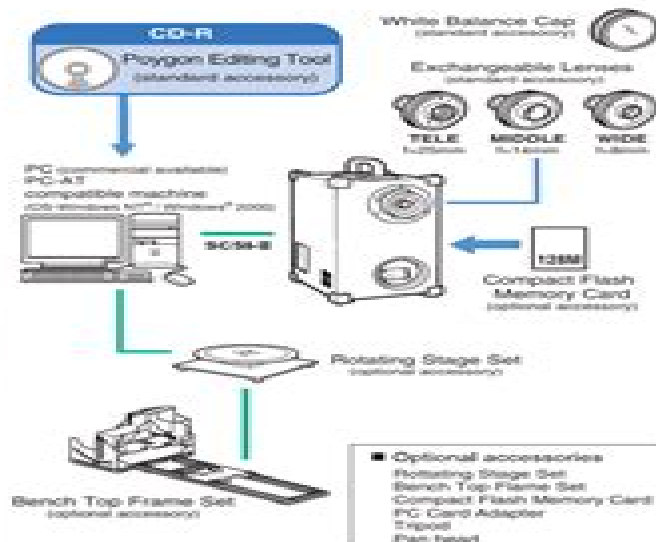
The VIVID 910 uses LASER triangulation. The object is scanned by a plane of laser light coming from the Vivid's source aperture. The plane of light is swept across the field of view by a mirror, rotated by a precise galvanometer. This LASER light is reflected from the surface of the scanned object. Each scan line is observed by a single frame, captured by the CCD camera. The contour of the surface is derived from the image of each reflected scan line. The entire area is captured in 2.5 seconds (0.5 seconds in FAST mode), and the surface shape is converted to a lattice of over 300,000 vertices (connected points). VIVID gives you more than a point cloud; a polygonal-mesh is created with all connectivity information retained, thereby eliminating geometric ambiguities and improving detail capture. A brilliant (24-bit) color image is captured at the same time by the same CCD. Unlike other scanners, the VIVID has no parallax error, its "spot-on".

High Accuracy Measurement

A high-accuracy scanner and a high-accuracy Calibration facility unit to be used for calculation of 3-D data have been developed for the VIVID 910. The 3-D reference chart traceable to the national standards has also been established to utilize the technology and algorithm that enable higher accuracy measurement.



System Block Diagram



Specifications

Type	Non-contact 3D objective VIVID 910
Measuring method	Triangulation light block method
Axis	Three-axis (X, Y, Z) coordinate, active AP
Light-Receiving Lens (Exchangable)	TELE: Focal distance 120mm MIDDLE: Focal distance 140mm WIDE: Focal distance 160mm
Scan Range (Depth x Field)	0.5 to 2.5m (2m for WIDE)
Spot Size (mm)	0.5 to 1.5mm
Laser class	Class 2 (IEC 60825-1), "Eye safe", Class 1 (FOU)
Laser Scan Method	Galvanometer-driven rotating mirror
X Direction Input Range (Values with the distance)	111 to 400mm (TELE), 144 to 400mm (MIDDLE), 200 to 400mm (WIDE)
Y Direction Input Range (Values with the distance)	80 to 340mm (TELE), 144 to 400mm (MIDDLE), 200 to 400mm (WIDE)
Z Direction Input Range (Values with the distance)	40 to 500mm (TELE), 70 to 600mm (MIDDLE), 140 to 700mm (WIDE)
Precision (Z-Type)	± 0.005mm (Standard, FINE mode, Mirror's standard)
Accuracy	TELE X: ± 0.05mm, Y: ± 0.05mm, Z: ± 0.05mm to the Z reference plane/Conditions: 100, 0.1mm mode, Mirror's standard
Input Time	0.1 sec (FAST mode), 0.5 sec (FINE mode), 0.5 sec (FOU mode)
Acquired Data Condition	Approx. 1 sec (FAST mode), 1.5 sec (FINE mode)
Imaging Element	CCD (CMOS) 1/2 inch frame transfer CCD (340,000 pixels)
Number of Output Pixels	Color data: 340,000 pixels (1,024 x 330 pixels) (Converted to 3-D data by the Polygon Editing Software) (standard accessory)
Output Format	3-D data: .kml (KML format) (3-D data by the Polygon Editing Software) (standard accessory)
Recording Medium	Color data: .kml (KML format) (3-D data by the Polygon Editing Software) (standard accessory)
Data File Size	Color data: .kml (KML format) (3-D data by the Polygon Editing Software) (standard accessory)
Video/Still	Color data: .kml (KML format) (3-D data by the Polygon Editing Software) (standard accessory)
Output Interface	SCSI II (DDBA synchronous transfer)
Power	Commercial AC power 100 to 240V (50 to 60Hz), rated current 0.5A (when 100VAC is input)
Dimensions (mm) (W x H x D)	215 x 410 x 275 mm (8.5 x 16.1 x 10.8 in.)
Weight	Approx. 11kg (24.2 lbs)
Operating temperature/humidity range	10 to 40°C, relative humidity 65% or less with no condensation
Storage temperature/humidity range	-10 to 50°C, relative humidity 65% or less (at 35°C) with no condensation

* Specifications are subject to change without notice.
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SAFETY PRECAUTIONS

Read all safety and operating instructions before operating the VIVID 910.



- Use only a power source of the specified rating.
- Improper connection may cause a fire or electric shock.
- Do not stare into the laser beam.
- MODE: 30000 dots/mm / CLASS 1 (WIDE), CLASS 2 (TELE) LASER PRODUCT

Caution

CLASS 1 LASER PRODUCT
CLASS 2 LASER PRODUCT

CLASS 1 LASER PRODUCT

ISO 9001
CERTIFIED

The manufacturing center of Konicaminiolta Sensing Inc. (located in Sakai, Japan) was approved by the British certification organization Lloyd's Register Quality Assurance for certification under the ISO 9001:1994 international quality management system standards on March 2, 1999. Since its establishment in 1990, the center has carried out the development and production of precision instruments and associated application software for the measurement of color, light, and shape. Certification was awarded to the center's quality management system, including design, manufacture, management of manufacture, calibration and servicing. Certification was carried over to the ISO 9001:2000 standards in February, 2000.

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Web: <http://sensing.konicaminiolta.jp/vivid/>

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Konica Minolta Owners Manual

Rustam Stolkin



Konica Minolta Owners Manual:

The Complete Guide to Sony's Alpha 300 and 350 Digital SLR Cameras Gary L. Friedman, 2008 *The Complete Guide to Sony's Alpha 330 and 380 Digital SLR Cameras* , *Popular Photography* , 2005-09 **Konica Minolta** , 2003

Scene Reconstruction Pose Estimation and Tracking Rustam Stolkin, 2007-06-01 This book reports recent advances in the use of pattern recognition techniques for computer and robot vision The sciences of pattern recognition and computational vision have been inextricably intertwined since their early days some four decades ago with the emergence of fast digital computing All computer vision techniques could be regarded as a form of pattern recognition in the broadest sense of the term Conversely if one looks through the contents of a typical international pattern recognition conference proceedings it appears that the large majority perhaps 70 80% of all pattern recognition papers are concerned with the analysis of images In particular these sciences overlap in areas of low level vision such as segmentation edge detection and other kinds of feature extraction and region identification which are the focus of this book *The Complete Guide to Sony's Alpha 200 DSLR (B&W Edition)* , **Popular Photography** , 1981-07 **Konica Minolta** , 2005 Popular Photography , 1983-02 **Popular Photography** , 1983-01 *Popular Photography* , 1984 Consumers Index to Product Evaluations and Information Sources , 1999 *Consumer Reports Buying Guide* Consumer Reports Magazine, 2006-11 This is an all new 2007 edition go help with trusted product reviews and comparison test results and ratings With more than 950 product ratings plus exclusive brand repair histories for many product categories the experts identify the best items in many areas

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