

## Specifications of VIVID 9i

Type	Non-contact 3D digitizer
Measuring Method	Triangulation light block method
Light-Receiving Lenses (Interchangeable)	<b>TELE</b> Focal distance f=25 mm <b>MIDDLE</b> Focal distance f=14 mm <b>WIDE</b> Focal distance f=8 mm
Scan Range	0.6 to 1.0 m (In Standard mode) 0.5 to 2.5 m (In Extended mode)
Laser Scan Method	Galvanometer-driven rotating mirror
Laser Class	Class 2 (IEC60825-1), Class 1 (FDA)
X Direction Input Range(In Extended mode)	<b>TELE</b> 93 to 463 mm <b>MIDDLE</b> 165 to 823 mm <b>WIDE</b> 299 to 1495 mm
Y Direction Input Range(In Extended mode)	<b>TELE</b> 69 to 347 mm <b>MIDDLE</b> 124 to 618 mm <b>WIDE</b> 224 to 1121 mm
Z Direction Input Range(In Extended mode)	<b>TELE</b> 26 to 680 mm <b>MIDDLE</b> 42 to 1100 mm <b>WIDE</b> 66 to 1750 mm
Accuracy (X, Y, Z)	±0.05 mm (Using TELE lens at distance of 0.6 m, with Field Calibration System, Konica Minolta's standard, at 20°C)
Precision (Z, σ)	0.008 mm (Using TELE lens at distance of 0.6 m, Konica Minolta's standard, at 20°C)
Input Time (per scan)	2.5 sec
Transfer Time to Host Computer	Approx. 1.5 sec
Ambient Lighting Condition	Office environment, 500 lx or less
Imaging Element	3D data: 1/3-inch frame transfer CCD (340,000 pixels) Color data: Common with 3D data (color separation by rotary filter)
Number of Output Pixels	3D data: 640 x 480 (640 x 460 in the HIGH QUALITY mode) Color data: 640 x 480
Output Format	3D data: Konica Minolta format, & (STL, DXF, OBJ, ASCII points, VRML) (Converted to 3D data by the Polygon Editing Software/ standard accessory) Color data: RGB 24-bit raster scan data
Data File Size	Total 3D and color data capacity: 3.6MB per data
Viewfinder	5.7-inch LCD (320 x 240 pixels)*1
Output Interface	SCSI II (DMA synchronous transfer)
Power	Commercial AC power, 100 to 240 V (50/60Hz), rated current 0.6 A (at 100 VAC)
Dimensions	221 (W) x 412 (H) x 282 (D) mm
Weight	Approx. 15 kg (with lens attached)
Operating temperature/humidity range*2	10°C to 40°C, relative humidity 65% or less with no condensation
Storage temperature/humidity range	0°C to 40°C, relative humidity 85% or less (at 35°C) with no condensation
Regulatory approvals	UL 61010A-1, CSA-C22.2 No.1010-1, etc.

\*1 Contains Mercury in the backlighting of LCD used for display, Dispose According to Local, State or Federal Laws.

\*2 Operating temperature/humidity range of products for North America : 10 to 40°C, relative humidity 50% or less (at 40°C) with no condensation

## Specifications of Polygon Editing Tool ver. 2.2

<b>&lt;Main Features&gt;</b>		<b>&lt;Operating Environment&gt;</b>	
<b>Readable Formats</b>	Konica Minolta proprietary formats: CAM, VVD, SCN, CDM, CDK General format: STL	<b>PC-AT compatible</b>	Computer running Windows*2000/Windows*XP
<b>Data Conversion</b>	Conversion from Konica Minolta proprietary formats into general format Polygonal data: DXF, Wavefront, Softimage, VRML 2.0, STL, MGF Point group data: ASCII	<b>OS</b>	Windows*2000 Professional SP4 Windows*XP Professional SP2 (x64 Edition not supported)
<b>Functions</b>	Data alignment, data merging, smoothing, uniform data reduction, adaptive data reduction, polygon check, texture blending	<b>CPU</b>	Pentium 4 or better
<b>Point Group Editing</b>	Rotation, movement, deletion, hole filling with data interpolation	<b>RAM</b>	1024 MB (2048 MB recommended)
<b>Camera Remote Operation</b>	Measurement, measurement reference distance setting, number of scans setting, laser power setting, high-quality setting, filter setting, etc.	<b>Display</b>	Graphic display ability at 1024 x 768 or more
<b>Display Modes</b>	Wireframe, shading, texture mapping	<b>Graphics Board</b>	OpenGL-ready board (verified-compatible board recommended.)
		<b>SCSI Interface</b>	Adaptec SCSI card (Please use a verified compatible board.)
		<b>Others</b>	CD-ROM drive, USB port

For further information regarding graphics board and SCSI interface, please contact the Vivid Salesperson in your area.

## Specifications of Photogrammetry System PSC-1

Typical Subject Size	0.5 to 2.0 m
Accuracy	±0.1 mm for volume <2 m <sup>3</sup> and below (Measurement subject size : 1 m, Photogrammetry alone, Konica Minolta's standard, at 20°C)