

LUCANA ABACUS SAMPLE TECHNICAL DATASHEET

GUIDANCE

Degrees of Freedom	X, Z
Field of view (FOV)- δx , δz	MODEL 35/200 $\delta z=(110-425)$ $\delta x=(110-425)$ MODEL 35/350 $\delta z=(190-740)$ $\delta x=(200-570)$ MODEL 35/500 $\delta z=(280-1075)$ $\delta x=(300-800)$
Resolution (Accuracy decreases as the upper range limit is approached)	X/Z-AXIS +/- 100 μ
Z Accuracy	+/- 10 μ to +/- 200 μ (+/- 200 μ at boundary of 125 x 125 mm)
X Accuracy	+/- 10 μ to +/- 200 μ (+/- 200 μ at boundary of 125 x 125 mm)
Repeatability	+/- 10 μ (Surface dependent)
Calibration	Pre Calibrated in house
Max number of Objects to teach	NO LIMIT
Emulation mode	Yes (can analyze images)
Laser Control	Automatic
Focus	Automatic (or Manual if needed)

ROBOT COMMUNICATION

TCP/IP

ROBOT BUILT-IN DRIVER

Comau - Kawasaki - ABB - Fanuc - Kuka - Motoman - Nachi - Universal Robot

ACCESS

Using laptop with Recognition Robotics Sensor Browser software

Direct using monitor, mouse & keyboard (not for robot mounted applications)

MECHANICAL

Dimensions (W×H×D)	MODEL 35/200 144×212×50 MODEL 35/350 144×315×50 MODEL 35/500 144×428×50
IP rating	IP67
Ethernet Connection	8 pin M12 A Code
Power Connector	3 Pin M8 A Code

ENVIRONMENTAL & ELECTRICAL

Input voltage	24V
Power consumption	1A
Operating temperature	OPERATING 0-55 °C 32-131 °F STORAGE -20-80 °C -4-176 °F
Certification	IP67
Laser Safety	Laser Class 3R