

# LUCANA OCULUS SIMPLE TECHNICAL DATASHEET

## GUIDANCE

Degrees of Freedom	X, Z
Volume of View (VOV) - $\delta x$ $\delta y$ $\delta z$ (Lens, standoff and illumination dependent)	MODEL 15/150 $\delta z=(80-750)$ $\delta x=(55-500)$ MODEL 35/100 $\delta z=(65-205)$ $\delta x=(50-130)$ MODEL 35/200 $\delta z=(120-350)$ $\delta x=(120-255)$
Resolution (Accuracy decreases as the upper range limit is approached)	X/Z-AXIS +/- 100 $\mu$
Z Accuracy	+/- 3 $\mu$ to +/- 50 $\mu$ (+/- 50 $\mu$ at boundary of 50x50 mm)
X Accuracy	+/- 3 $\mu$ to +/- 50 $\mu$ (+/- 50 $\mu$ at boundary of 50x50 mm)
Repeatability	+/- 3 $\mu$ (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

Direct through the Computing unit or the teach pendant for supported robot brands

Using externally connected laptop with Recognition Robotics Sensor Browser Software

## MECHANICAL

Dimensions	MODEL 15/150 70x100x57 (WxLxD) MODEL 35/100 70x135x58 (WxLxD) MODEL 35/200 70x205x58 (WxLxD)
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