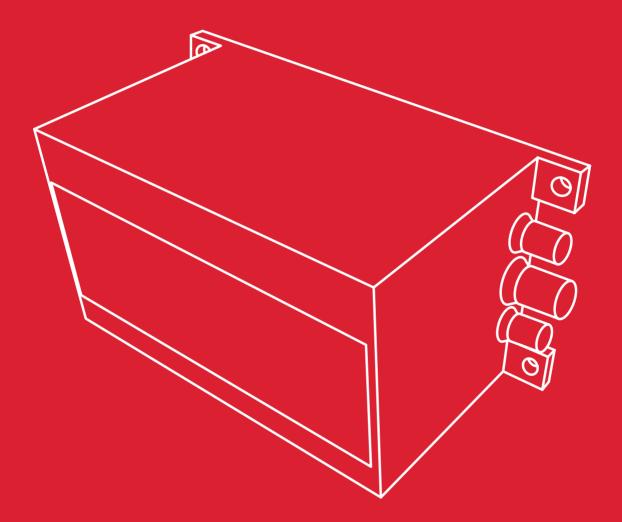






ibeo LUX 4L / ibeo LUX 8L / ibeo LUX HD

DATA SHEET



This information has been put together with greatest care. However, any performance data given in this leaflet is subject to compliance with certain surrounding conditions and hence may vary from case to case. Further, we reserve the right to make changes at any time without notice. We strongly recommend (i) reconfirmation with Ibeo Automotive whether this information is still fully valid, before using it for final designs and (ii) to verify performance data taking into account the actual surrounding conditions. Ibeo Automotive takes no responsibility for any consequences due to non-compliance with these recommendations. (Subject to change without notice - 2017-07)



TECHNICAL DATA



LASER / OPTICAL	ibeo LUX 4L	ibeo LUX 8L	ibeo LUX HD	
Laser class:	Class 1			
Wave length:	905 nm			
Technology:	Time of flight, Output of distance and echo pulse width			
Range:	50 m / 164 ft @ 10 % remission	50 m/164 ft @ 10 % remission	30 m/98 ft @ 10% remission	
MEASUREMENT	ibeo LUX 4L	ibeo LUX 8L	ibeo LUX HD	
Horizontal field of view:	110° (50° to -60°)			
Vertical field of view:	3.2°	6.4°	3.2°	
Multi-layer:	4 parallel scanning layers	8 layers (2 pairs of 4 layers)	4 parallel scanning layers	
Multi echo:	Up to 3 distance measurements per shot (allow measurements through atmospheric clutter like rain and dust)			
Data update rate:	25.0 Hz			
Operating temperature range:	-40° to 85° C/-40° to 185° F			
Accuracy (distance independent):	10 cm/3.9 in			
Angular resolution:	Horizontal: up to 0.25° Vertical: 0.8°			
Distance Resolution:	4cm/1.57in			
SOFTWARE	ibeo LUX 4L	ibeo LUX 8L	ibeo LUX HD	
Raw data pre-processing (embedded):	All measurements will be classified and tagged as valid/ground/clutter			
Real time object tracking (embedded):	Object properties: position, size, speed			
Ego motion compensation (embedded):	Requires vehicle ego motion data			
Fusion:	Fusion of multiple sensors (LUX 4L, 8L, HD) for 360° FOV is possible			
MECHANICAL / ELECTRICAL	ibeo LUX 4L	ibeo LUX 8L	ibeo LUX HD	
Power supply:	9 to 27 V			
Power consumption:	7W (average), < 10W (max)	8 W (average), <10 W (max)	7 W (average), < 10 W (max)	
Dimensions (WxDxH):	164.5 x 93.2 x 88 mm 6.47 x 3.67 x 3.46 in			
Protection class:	IP 69K (IEC 60529, DIN 40050-9 (using protected plug connectors) IP 68 (IEC 60529 (2 m, 24 h))			
DATA I / O	ibeo LUX 4L	ibeo LUX 8L	ibeo LUX HD	
Ethernet:	Output: Raw- and object data Input: Configuration / time sync via NTP server			
CAN:	Output: Object data Input: Ego motion data			
		Sync		



