

MOJAVE

SOFTWARE-DEFINABLE FLASH LIDAR SENSOR



PreAct
TECHNOLOGIES

Mojave is our third generation modular software-defined Flash LIDAR. Specifically designed to address the critical need for near-field 3D sensors and perception creation, training, and deployment tools. Mojave is equipped with unparalleled features that set it apart from the competition. With its software-defined capabilities, well documented SDK, and powerful, user-friendly toolset, Mojave empowers your business to capture and process precise depth and location data, and quickly develop and deploy new features and functionality to your product line now and in the future.

TIME-OF-FLIGHT IMAGING

Illumination	940nm IREDS; 2900mW/sr max luminous intensity
Viewing Angle (H x V x D)	70° x 52.5° x 87.5°
Sensor	Espros EPC-660
Resolution (H x V)	320 x 240 (77k) px
Max 3D (distance) Framerate	18 fps
Range	0.3m - 4.5m @ 10% reflectivity 0.3m - 14m @ 94% reflectivity Identify person at 10 meters
Resolution	0.22 x 0.22
Depth Accuracy	< 2% error
Max Ambient Light	190k Lux
Depth Information	1.4 Million Points Per Second

MECHANICAL

Dimensions (W x H x D)	90mm x 25mm x 25mm
Mass	75 grams
Environmental	IP20
Ambient Operating Temp.	0°C to 35°C
Case Temperature	0°C to 55°C
Mounting Interface	2x M3 x 0.5 x 3mm 1x 1/4"- 20 mount

SYSTEM

Interface 1: USB-C	USB-C (2.0)
Additional Features	6-DOF IMU
Power Consumption	1.8 Watts (typ) @ 2000us integration time

SOFTWARE DEVELOPMENT KIT

SDK	PreAct Standard SDK
SDK Features	<ul style="list-style-type: none"> Camera Control 2D Distance and Amplitude Viewer Point Cloud Generation 3D Visualization Tool
Programming Languages Support	C++, Python
Frameworks and Wrapper Support	ROS2
Operating System Support	Windows, Linux
Platforms	Nvidia Jetson
AI Behavior Detection Samples	<ul style="list-style-type: none"> Gesture Recognition (Hand & Body) Driver Monitoring Drinking Detection Phone Texting Detection Phone Calling Detection Head Detection

