

OPAL

Obscurant penetrating LiDAR for harsh environments



The new OPAL™ Performance Series 3D LiDAR

Introducing the completely redesigned OPAL™ 3D LiDAR scanner from Neptec Technologies.

The OPAL™ is one of the most powerful and versatile 3D LiDAR sensors, and features optimized perception capabilities for detecting small targets at range. OPAL™ scanners are fully compatible with the 3DRi™ Software Development Kit (SDK), a library of proprietary algorithms for developing applications for Object Detection, Tracking, and Classification.

OPAL™ incorporates the latest innovations in laser optics and intelligent 3D processing to deliver an unprecedented combination of range, data density, and acquisition speed in a rugged, all-weather package.

Designed for real-world, mission-critical autonomy applications

INNOVATIVE

Advanced laser optics and 3D processing in a size, weight and power optimized package

OBSCURANT PENETRATING

Unparalleled performance in dust, smoke, rain and fog

HIGH RESOLUTION

300,000 points per second (single return mode)

CONSISTENT

Reliable low-reflectivity target detection in real-world scenarios

LONG RANGE

Superior range performance up to 1,000 m

CONNECTIVITY

Integrated GigE switch and port for GPS/INS

USER FRIENDLY

Intuitive 3DRi™ software tools for rapid application development

RUGGED

-40°C to +55°C operating temperature, resistant to shock and vibration, with a sapphire glass window and certified to IP67



SECURITY



MARINE



AEROSPACE



TRANSPORT



OIL & GAS



CONSTRUCTION



MINING

