SENSE

100% Solid-State

No Vertical Gaps

Ultra Wide FOV

3D Global Shutter

## Development Focus

**Collision Avoidance**
**HD Map Database**
**Autopark**
**Smart Summon**
**Lane Changes**
**Perception Development**

# Osprey **Dev Kit**

**Purpose-built flash LiDAR for short-range automotive development use**

**Available in 2 hardware configurations to optimize range and FOV**

| 80°H x 30°V | 80°H x 75°V |
|---|---|
| 14m range (10% Target, 100klux) | 10m range (10% Target, 100klux) |
| 0.27°H x 0.27°V Resolution | 0.27°H x 0.27°V Resolution |
| 10Hz | 10Hz |

| | |
|---|---|
| **Laser Safety** | Class 1 eye-safe per IEC 60825-1 |
| **Wavelength** | Sense Illuminator - 940 nm VCSEL Array |
| **Range Accuracy** | 3.5 cm (Typical)[1] with 10cm precision (max range) |
| **Output** | Point Cloud (X, Y, Z)<br>Intensity, 2D Depth Map |
| **Data Rate** | 1,000,000 points / sec |
| **Interface** | Gigabit Ethernet (TCP/IP) |
| **Synchronization** | PTP (IEEE 1588) |
| **Mounting** | 1/4-20" Threaded (Bottom) |
| **Dimensions** | Emitter = 94 mm (H) x 185 mm (W) x 183.69 mm (D)<br>Receiever = 63 mm (H) x 160.6 mm(H) x 167.1 mm (D) |
| **Operating Temp.** | -10°C to +50°C |
| **Storage Temp.** | -40°C to +80°C |
| **Weight** | Emitter = 2.7kg<br>Receiever = 1.3kg |
| **Ingress Protection** | IP55 |
| **Connectors** | Data - M12 (8-pin on receiever module)<br>Power - M12 (4-pin on emitter module) |
| **Voltage & Power** | 12V to 24V DC<br>35 W (Nominal Consumption)[2] |
| **Electrical** | IEC 61010-2-201 (pending Q2 2021) |
| **EMI** | IEC 61000-6-4 Radiation Interference (pending Q2 2021)<br>IEC 61000-6-2 Noise Immunity (pending Q2 2021) |
| **Certifications** | FCC RoHS CE (pending Q2 2021) |

[1] Typical accuracy refers to ambient wall test performance across pixel array and may vary with range, operating temperature, and target reflectivity
[2] Operating power may be influenced by factors including desired range and mode of operation