iTEK MEDIA
interaction enabled

# Lixel K2

The Gold Standard in Lightweight Scanning — Handheld SLAM LiDAR Scanner


## PRODUCT SPECIFICATION SHEET

### HARDWARE

| | |
|---|---|
| **Power input** | 14.4 V |
| **Power consumption** | < 20 W |
| **Weight** [1] | Approx. 1,200 g |
| **Data interface** | USB 3.1 Gen2 |
| **Internal storage** | eMMC 512 GB |
| **RTK module** | Supported (built-in) |
| **GNSS** | BDS: B1I, B3I, B1C, B2a, B2b<br>GPS: L1C/A, L1C, L2C, L2P(Y), L5<br>GLONASS: G1, G2, G3<br>Galileo: E1, E5a, E5b, E6<br>QZSS: L1C/A, L1C, L2C, L5, L6<br>SBAS: L1C/A |
| **WiFi** | IEEE 802.11 a/b/g/n/ac — 2.4–2.4835 GHz (2.4 GHz ISM Band); 5.15–5.25, 5.25–5.35, 5.47–5.73, 5.735–5.835 GHz (5 GHz ISM Band) |
| **Bluetooth** | v2.1+EDR / 3.0+HS / 4.2 / 5.0 |
| **Housing** | Aviation-grade aluminum |
| **Battery life** | 1.5 hours |

### OPERATING ENVIRONMENT

| | |
|---|---|
| **Temperature range** | –20 °C to 50 °C |
| **Ingress protection** | IP54 |

### BATTERY

| | |
|---|---|
| **Power method** | Clip-on battery |
| **Battery capacity** | 1,900 mAh |

### LIDAR MODULE

| | |
|---|---|
| **Laser class** | Class 1 / 905 nm |
| **Scan range** | ≥ 40 m @10% reflectivity; 100 m maximum range |
| **Field of view** | 360° × –7° to +52° |
| **Scan mode** | Mobile |
| **Point rate** | 200,000 pts/s |

## VISION MODULE

| | |
|---|---|
| **Camera count** | 3 (2 × fisheye, 1 × forward-facing) |
| **Panoramic FOV** | 200° × 200° |
| **Forward camera FOV** | 100° × 85° |
| **Camera resolution** | 4000 × 3000 |
| **CMOS sensor size** | 1/2" |
| **Shutter type** | Rolling shutter |

## ACCURACY

| | |
|---|---|
| **Absolute accuracy, elevation (RMSE)** [2] | 3 cm |
| **Absolute accuracy, horizontal (RMSE)** [2] | 3 cm |
| **Relative accuracy (RMSE)** [3] | 1 cm |
| **Repeatability** [4] | 2 cm |
| **Post-processed point cloud thickness** | ≤ 1 cm |
| **Real-time absolute accuracy, elevation (RMSE)** [5] | 3 cm |
| **Real-time absolute accuracy, horizontal (RMSE)** [5] | 3 cm |

## FEATURE HIGHLIGHT

| | |
|---|---|
| **Guided scan assistance with real-time quality check** | Supported |
| **In-App measurements and point cloud file sharing** | Supported |
| **Real-time dynamic object removal, filtering & coloring** | Supported |
| **Point cloud, Mesh, 3DGS output from single scan** | Supported |

## OUTPUT FORMATS

| | |
|---|---|
| **Point cloud** | .las .rcp .e57 .ply .ilas |
| **Image** | .jpg |
| **Mesh** | .osgb .obj |
| **3DGS** | .lcc2 .lcc .ply |
| **Others** | 3D Tiles .usd |

## ACCESSORIES

| | |
|---|---|
| **Phone mount** | Included |
| **Control point base** | Included |
| **Extension pole & adapter kit** | Optional |

[1] Includes battery and base; excludes other accessories.
[2] Measured under open sky, no multipath interference, optimal GNSS geometry, and favorable atmospheric conditions.
[3] Point-to-point distance within 10 m; measured under laboratory conditions. Actual performance may vary.
[4] Measured under laboratory conditions. Actual performance may vary.
[5] Measured under open sky, no multipath interference, optimal GNSS geometry, and favorable atmospheric conditions. Supports WGS84 and CGCS2000 only.

## CONTACT US


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