

HYBO iTFS-LITE

Compact USB 3D Depth Sensor



FEATURES

- QVGA (320 × 240) 3D Depth Sensing
- Real-Time Streaming Up to 30 FPS
- Sync-Free Multi-Sensor Operation
- Class 1 Laser Product (940-nm IR)
- Compact Form Factor
- Flush-Mount Ready Design
- Single-Cable USB Connectivity
- Lockable USB Type-C Interface
- Windows, Linux, ROS / ROS2

KEY BENEFITS

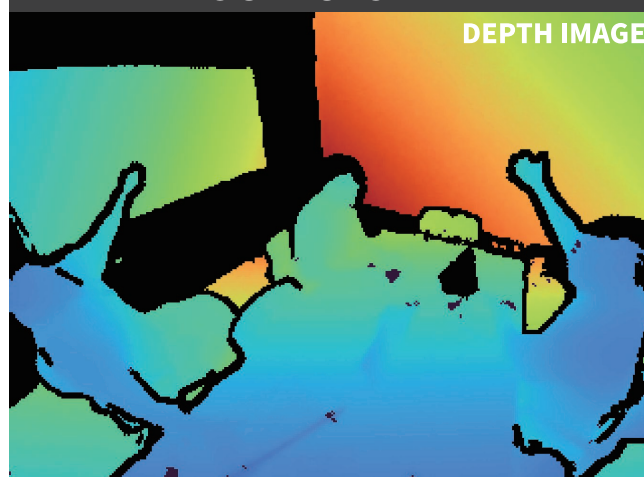
- ✓ Easy Product Integration
- ✓ Plug-and-Play Deployment
- ✓ No External Power Required
- ✓ Multi-Sensor Ready
- ✓ Developer-Friendly Software Ecosystem

iTFS-LITE FAMILY

MODEL	DEPTH (320x240)	RGB (1280 x 960)	IMU (6-DoF)
iTFS-LITE-1 iTFS-LITE-3	✓		
iTFS-LITE-1-IMU* iTFS-LITE-3-IMU	✓		✓
iTFS-LITE-1-RGB* iTFS-LITE-3-RGB	✓	✓	
iTFS-LITE-1-RGB-IMU* iTFS-LITE-3-RGB-IMU	✓	✓	✓

* Planned for Q4 2026

EXAMPLE OUTPUTS



APPLICATIONS



Robotics



Smart Infra



Safety



Automation

SPECIFICATIONS¹⁾

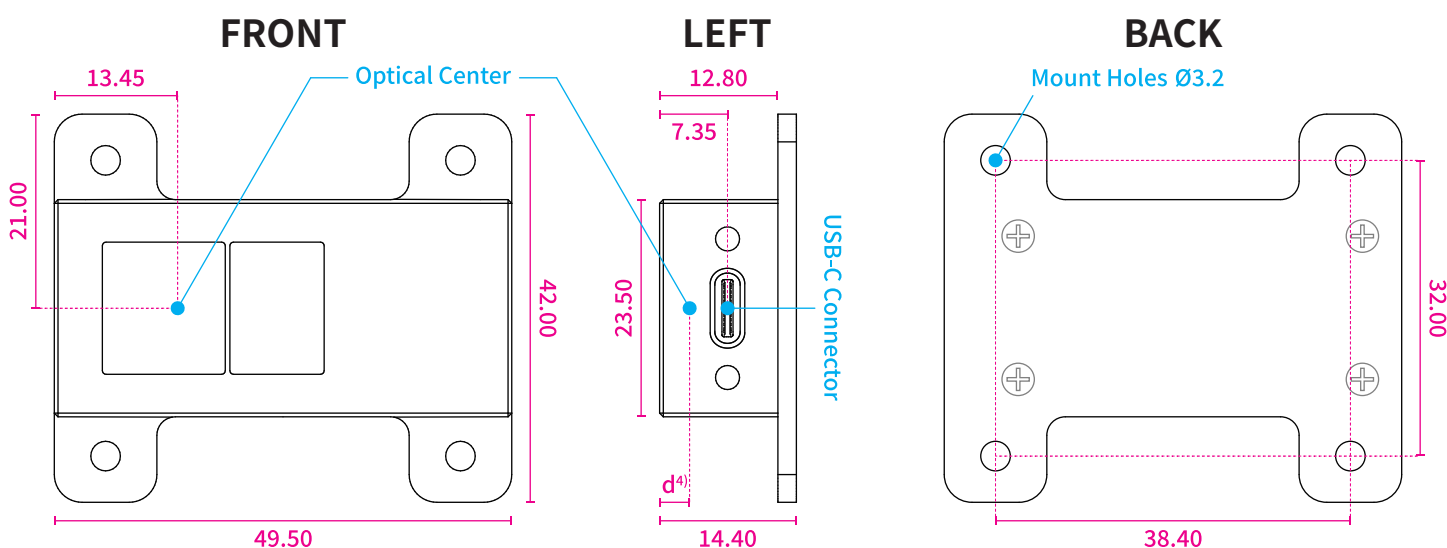
Features	iTFS-LITE-1	iTFS-LITE-3
Range ²⁾	0.2 m – 7.0 m	0.1 m – 5.0 m
Field of View	80 ° x 60 °	100 ° x 80 °
Resolution	320 x 240	
Accuracy ²⁾	± (3 cm + 1 % of measured distance), Typical	
Framerate	Up to 30 FPS	
Output	Depth / Amplitude / Intensity / Confidence	
Interference Immunity	Sync-free multi-sensor operation (5+ units)	
Sunlight Immunity	Up to 30 klx (Up to 70 klx with reduced range capability)	
Operating Temp. ³⁾	Ambient: -10 °C – +35 °C / Backplate: -10 °C – +50 °C	
Availability	Samples & Pre-Orders Available	
Dimensions	49.5 mm x 42 mm x 14.4 mm (W x H x D)	
Weight	24 g	
Interface	USB 2.0 Type-C (Lockable)	
Power	USB bus-powered (5 V = 500 mA max.)	
Certification	KC / FCC / CE / RoHS	
Laser Safety	940 nm IR Laser, IEC 60825-1 Class 1 Laser Product	
Software Support	Native C/C++ and Python API (Windows 10/11, Linux, ROS/ROS2)	

1) Specifications are subject to change without notice. (Data as of 27 Jul. 2026)

2) Measured using an 80% diffuse reflectance target at the center ROI.

3) Ambient operating temperature specifications assume appropriate thermal management as described in the User Manual.

DIMENSIONS (mm)



4) Optical Center Depth, d = 3.60 mm (iTFS-LITE-1), 3.10 mm (iTFS-LITE-3).