

BAR 3D Live

Real Time situational Awareness

TECHNICAL DATA SHEET

BAR 3D LIVE

Blue Atlas Robotics has developed a real time 3D solution providing real-time situational awareness while operating a ROV.

The solution consists of a BAR 3D Live Stereopair payload, that can be integrated on most ROVs, and the BAR 3D Live software package.



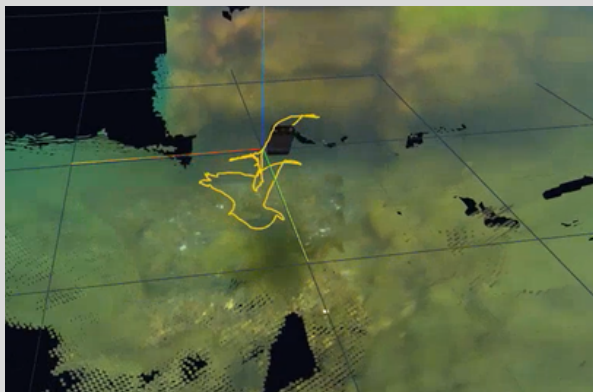
Data Output Options (export):

Video Files

Still Images

3D Point Cloud/Mesh

Trajectory file incl. Keyframes, Timestamps,
Position and Orientation Data



Payload specifications:

Compute	IMU & Barometer, Nvidia Jetson NX - 16GB, SSD: 1-2TB.
Light Control	Requires dedicated Cobalt 10 connector.
Mounting options	Multiple Screw holes on payload or custom mount.
Connector options	Cobalt 14-10 pin, Hybrid (1Gbit) 2 Cobalt 10 (1Gbit) 1 Cobalt 10 (100Mbit) Other options upon request.
Power	12-60v – 30W
Video	2* cameras (1920*1200) with global shutter and setup as stereopair. 70° horizontal field of view (other viewing options available upon request).

How It Works

Data is captured as video from the built-in stereopair, and a real time point cloud/3D mesh is being computed while operating to provide situational awareness.

Access Your Data

Data can be accessed immediately while operating or later through a web interface (webserver and a file-viewer).

Options

- **Power & data cable:** Access data when the ROV is powered off or when in the office.
- **Software updates:** New functionality can be added remotely (requires remote access)