



SHOT OVER | B1 UTILITY



THE COMPLETE UTILITY PACKAGE

A lightweight and flexible solution for survey and maintenance of power lines and gas and oil pipelines, the B1 Utility provides unsurpassed situational awareness and look down capability through its 6-axis technology and augmented reality overlays coupled with 3D satellite synthetic imagery. Capable of still camera and video options, its open platform design allows for the integration of new technology as it comes to market.

B1 UTILITY PACKAGE FEATURES

- SHOTOVER Generations5 technology delivers unshakable stability and ultimate functionality
- Optional cloud-based video management system allows for easy review, tagging and clipping of video content
- High-definition aerial inspection and assessment
- 6-axis gyro stabilized with unmatched look down capability and no gimbal lock
- Record asset conditions and visible faults in hard to access locations
- Ultra-lightweight and rugged 6061-T6 aircraft aluminum structure
- Able to ship with fitted payload
- No ITAR restrictions or EAR licensing requirements
- Displays the route of natural gas pipelines, power lines, or any other utility over real-time video
- Auto or Steerable horizon with the most advanced steering capabilities on the market
- Export highly accurate shape files indicating the time and position of every object
- Various top plate options are available to allow mounting on land, sea and air platforms

In conjunction with system users, our engineers meticulously designed the SHOTOVER gimbal controller. It provides the highest level of functionality with ideal placement of controls.

Features of the Gimbal Controller include:

- Layout allows fast transition from heritage systems
- Recessed cable connections for increased cable life
- Master rate control for rapid adjustment
- Integrated 15VDC 120W Monitor Power Supply
- Force Joystick Option
- Iris Wheel control on the side and top of controller
- LED display with customizable switches
- Ergonomic Wrist Support
- Fully integrated camera control units; Ikegami RM-70F
- Break out FI+Z control with Preston HU3
- Dual 5V USB A Ports for powering Accessories (including smartphones)
- Mount Holes for accessories & monitor mounting



**SHOT
OVER**
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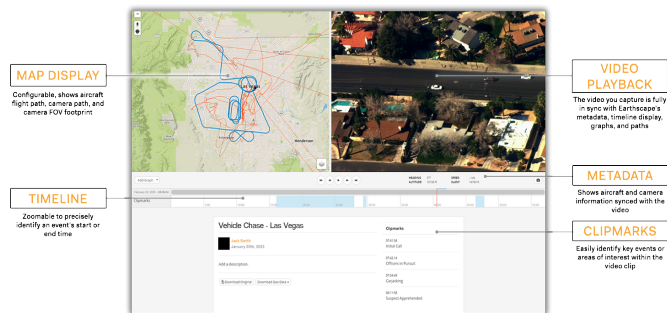
REAL-TIME AUGMENTED REALITY MAPPING



SHOTOVER's next generation augmented reality mapping software specifically designed for utility applications overlays critical geo-referenced information on top of live video.

- Automatically steer the camera along a utility line as you look for points of interest, even when the line is buried
- Built-in recording capability eliminates the need for stand-alone video recorders
- Create, modify and combine polygons
- Comprehensive GIS, imagery and map databases
- Playback and review while recording
- Lifetime software updates included

CLOUD-BASED VIDEO MANAGEMENT



Earthscape is a cloud-based video management tool that gives users powerful control over their video and its metadata. Upload, review, and manage tags, clipmarks, and footprints for any video captured.

- Precisely identify the last time an area was inspected and see all the videos that were recorded in an area during a selected timeframe
- Upload and manage video archive in the secure cloud
- Quickly find stored videos utilizing filters and key search terms
- Visualize rich geospatial data

With your SHOTOVER Systems package, you are eligible to receive 1 FREE year of Earthscape with purchase. Please note, there is specific hardware required for this service so please consult with your Sales representative at time of purchase to take advantage of this offer or to schedule a demo.

B1 GIMBAL SPECIFICATIONS

STABILIZATION

6-axis with no gimbal lock
High performance non-ITAR sensors
Distributed Multi-processor closed loop servo control system
Proprietary gimbal control algorithms

GIMBAL FIELD OF VIEW

Pan: 360 degrees continuous (via electrical and optical rotary joints)
Tilt: +50 to -110 degrees
Roll: +/-85 degrees (steerable or auto horizon)
Max slew rate: 100 deg/sec

DATA / COMMUNICATION

SDI or Fiber Optic Video Options
CAN Bus
RS 422 Serial Bus
Ethernet

WEIGHT

Turret with payload < 22kg (50lbs)
Operator control unit 2.5kg (5.5lbs)
External cable set: 1.0kg (2.2lbs)

POWER

24-60 VDC
7 Amps Max Draw (at 28V)

ENVIRONMENTAL

Operating Temperature: -20 to +50 C

GIMBAL CONTROLLER

20-58VDC
Customizable video overlay (Monitor Output)
Recess for camera remotes such as:
Ikegami RM-70F
Custom control layouts available upon request
Custom control layouts available upon request

CAMERA & LENS COMBINATIONS

	Fujinon UA 24x7.8	Fujinon Cabrio 19-90	Fujinon Cabrio 20-120	Fujinon Cabrio 85-300	Canon CN7x17	Canon CN10x25	Canon CJ28x18	RS Series
Ikegami F4000 (4K)	●						●	
RED® KOMODO™		●	●	●	●	●		
Phase One Series								●