

SHOT OVER

U1



The SHOTOVER U1 takes drone cinematography and imaging to new heights

The SHOTOVER U1 is the world's first professional grade unmanned aerial vehicle for broadcast, motion picture, law enforcement and industrial survey markets.

The SHOTOVER U1 gimbal (U1g) can be detached from the multirotor and used as a standalone gyro-stabilized platform for mounting on motorcycles, cars, boats, cables and almost anything that moves.

U1g SYSTEM FEATURES

- Gyro-stabilized gimbal system
- Wireless video downlink
- SHOTOVER FI+Z with lens motors
- Components to install camera and lens combinations per matrix
- Remote camera control (RED, Arri, Sony, Canon, Phantom)
- Available as turn-key sUAS or as standalone gimbal
- Compact size and weight allows affordable transport as freight or excess baggage
- No ITAR restrictions or EAR licensing requirements
- SHOTOVER Free-Runner adaptor head. Quickly change between handheld, sUAS, mitchell mount, and bowl mount
- Easily integrated into film industry mounting platforms
- Advanced payload balancing system
- 360 degree continuous pan, tilt, and roll
- Delivers unshakable stability and ultimate functionality
- Customizable graphic overlay for real time operator feedback
- Auto or steerable horizon with the most advanced steering capabilities on the market
- HD video encoding & decoding for two video streams (HDMI or SDI)
- Wired or wireless control

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U1g SYSTEM SPECIFICATIONS

STABILIZATION

3-axis
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
Tilt: 360 degrees continuous
Roll: 360 degrees continuous
Max slew rate: 100 deg/sec

DATA / COMMUNICATION

CAN Bus
RS 422 Serial Bus
Ethernet
Single radio link for wireless communication with:
Complete 802.11an: 5.15 - 5.85 GHz, 802.11 bgn:
2.412-2.484GHz
Gimbal communications
Multirotor communications
Camera communications
FPV HD video
Camera HD video

WEIGHT

Gimbal - 4kg (8.82lbs.)
Max payload - see chart for combinations

GROUND STATION

Complete MIMO HD downlink and antennas
Access point for wireless video transmission to handheld devices
Wired connection point for video recorder
12VDC XLR power

POWER

18-60 VDC
15 Amps Max Draw (at 44V)

ENVIRONMENTAL

Operating temperature: -20 to +50 degrees °C
(-4 to 122 degrees °F)
Weather resistant

GIMBAL OPERATOR CONTROL UNIT

Integrated battery
Spare battery and charger included
HD video decoder (HDMI or SDI output)
Lightweight
Customizable video overlay for monitor output
Camera remote integration (Sony, Canon, Arri, Phantom)
Left and right handed joystick operation
Harness or hard mounted

OPTIONS

Remote controlled rotating polarizer
Mitchell Mount
Bowl Mount
Licensed downlink - mesh networks & licensed frequencies
Geo referenced overlay
Third party geo mapping integration
Log VFX data (GPS, FIZ, etc)

CAMERA & LENS COMBINATIONS

	Argenieux Optimo 15-40	Argenieux Optimo 28-76mm	Canon 17-120	Canon EF Prime Series	Fujinon Cabrio 19-90	Fujinon Cabrio 85-300	Leica Summicron Series	Leica Summilux-C Range	Zeiss Master Prime Range
Canon C500	●	●	●	●	●	●	●	●	●
RED Epic X / Dragon	●	●	●	●	●	●	●	●	●
Red Weapon	●	●	●	●	●	●	●	●	●
Sony F55 with Recorder	●	●	●	●	●	●	●	●	●
Sony FS7	●	●	●	●	●	●	●	●	●
Alexa Mini	●	●	●	●	●	●	●	●	●
Phantom Flex 4K	●	●	●	●	●	●	●	●	●
Canon 5D	●	●	●	●	●	●	●	●	●



U1 Multirotor Features

U1 SYSTEM FEATURES

- Fully integrated turn-key sUAS solution
- Custom coaxial motors with 95 Amp speed controllers
- Molded ultra light carbon fiber frame
- Retractable landing gear
- Quick change redundant battery system
- Weather resistant
- Redundant flight controller
- Parachute option

U1 SYSTEM SPECIFICATIONS

COMPLETE MIMO SINGLE LINK HD DOWNLINK

Gimbal communication
sUAS communication
Camera communication
HD video (FPU & camera)
POV camera HD video
S.BUS
X.BUS

WEIGHT

Empty - 10.5kg (23lbs)
Max with payload - 30kg (66lbs) *not for Japanese market

FLIGHT TIME

9-22 Minutes

POWER

12S
100 Amps Max Draw (at 44V)

ENVIRONMENTAL

Operating temperature -20 to +50 degrees °C
(-4 to 122 degrees °F)

MULTIROTOR HANDCONTROL

Futaba
JR

FLIGHT CONTROLLER

Primary - MicroPilot MP2128heli2
Redundant - Pixhawk

OPTION

Cloudcap Piccolo

Manufacturer reserves the right to change specification to reflect improvements and or changes in technology at any time.