SHOTOVER | 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 G1 (gimbal from the U1 without the aerial component) can easily be detached from the multirotor and be used as a standalone gryo-stabilized platform for mounting on motorcycles, tracking vehicles, cranes, cables and almost anything that moves.

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
2x HD video (from gimbal)
POV camera HD video
S.BUS

WEIGHT
Empty - 12.9kg (28.48lbs)
Max with payload - 33kg (73lbs) *not for Japanese market

FLIGHT TIME
9-22 Minutes

POWER
12S
500 Amps Max Draw (at 44V)

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

MULTIROTOR HANDCONTROL
Futaba
*others upon request

FLIGHT CONTROLLER
Primary - MicroPilot MP2128heli2
Redundant - Pixhawk

SHOTOVER.COM

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G1 Gimbal Features

G1 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 and mitchell 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

G1 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: +65 to -120
Roll: +/- 65
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
- 2x Camera HD video

WEIGHT
Gimbal - 5.7kg (12 .6lbs.)
Max payload - see chart for combinations

GROUND STATION
Input Range: 20-34VDC
Consumption: 1.2KW (MAX)
Complete MIMO HD downlink and antennas
Access point for wireless video transmission to handheld devices
Wired connection point for video recorder 12VDC XLR power

FREE RUNNER
Input Range: 20-60VDC
Consumption: 960W (MAX)

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

GIMBAL OPERATOR CONTROL UNIT
Intergrated 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
Bowl Mount
Cone Mount
Licensed downlink - mesh networks & licensed frequencies
Geo referenced overlay
Third party geo mapping integration
Log VFX data (GPS, FIZ, etc)

CAMERA & LENS COMBINATIONS

	Angenieux Optimo 15-40	Angenieux 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	●	●	●		●	●	●	●	●

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

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