

# 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

## GIMBALS 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

	Fujinon 19-90	Fujinon 85-300	Optimo 15-40	Optimo 28-76	Canon 17-120	Zesis Master Prime Rang	Lecia Summilux-C Range	Lecia Summicron Series	Canon EF Prime Series
Canon C500	✓	✓	✓	✓	✓	✓	✓	✓	✓
RED Epic	✓	✓	✓	✓	✓	✓	✓	✓	✓
RED Weapon	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sony FS7	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sony F55	✓	✓	✓	✓	✓	✓	✓	✓	✓
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)

### 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

DJI-A2  
Pixhawk

### OPTION

Cloudcap Piccolo

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