

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 the 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 gyro 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

X.BUS

WEIGHT

Empty - 12.9kg (28.48lbs)

Max with payload - 33kg (73lbs) \*not for Japanese market

FLIGHT TIME

Up to 22 Minutes (Payload Dependant)

#### POWER

125

100 Amps Max Draw (at 44V)

#### **ENVIRONMENTAL**

Operating temperture -20 to +40 degrees °C (-4 to 104 degrees °F)

#### MULTIROTOR HANDCONTROL

Futaba

Others upon request

#### FLIGHT CONTROLLER

a. Primary: Pixhawk 2.1 (aka Cube)

b. Secondary: Pixhawk 1

## OPTION

Cloudcap Piccolo

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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
- Open platform design allows for the integration of new cameras and lenses as they come to market

# G1 SYSTEM SPECIFICATIONS

#### **STABILIZATION**

3-axis

High performance non-ITAR sensors

Distributed multi-processor closed loop servo control

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,

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	Angenieux EZ-2 Series	Angenieux 45-120	Canon 14x4.3	Canon 17-120	Canon 50-1000****	Canon EF Prime Series	Fujinon 14x4.5	Fujinon Cabrio 19-90	Fujino n 20-120	Fujinon 22x7.6	Fujinon Cabrio 85-300	Leica Summicron Series	Leica Summilux-C Range	Zeiss Master Prime Range
Canon C500*	•	•	•	•		•		•		•	•		•	•	•	•
RED DSMC**	•	•	•	•		•	•	•		•	•		•	•	•	•
RED DSMC2***	•	•	•	•		•	•	•		•	•		•	•	•	•
Sony F55 with Recorder	•	•	•	•		•				•			•	•	•	•
Sony FS7	•	•	•	•		•				•			•	•	•	•
Sony P1					•				•			•				
Alexa Mini	•	•	•	•		•				•			•	•	•	•
Phantom Flex 4K	•	•	•	•		•				•			•	•	•	•
Phantom Flex 2K*	•	•	•	•		•				•			•	•	•	•

<sup>\*</sup>The standard G1 configuration includes everything necessary to integrate the and lens combinations with the exception of the Canon C500 and Phantom Flex Q2K. The open platform design of the G1 allows for the integration of new camera and lenses as they come to market. Please note cameras and lenses not include

<sup>\*\*</sup>RED DSMC: Epic-M, Epic-X, Epic Monochrome, Scarlet, Epic Dragon, Scarlet Dragon \*\*\*RED DSMC2: Weapon 6K, Scarlet Weapon, Epic-W S35, Weapon 8K S35, Weapon 8 Vista Vision
\*\*\*\* For tripod applications and requires 50-1000 integration kit from SHOTOVER.

<sup>\*</sup>Manufacturer reserves the right to change spediication to reflect improvements and or changes in technology at any time.