

# SHOT OVER

# K1

The SHOTOVER K1 reinvents aerial cinematography.

**A 6-axis gyro stabilized gimbal platform that delivers unshakable stability and next generation Ultra HD image quality in 2D or 3D with straight look down capability. Its open architecture allows a comprehensive range of camera and lens interchanges and its modular carbon fiber construction means it ships as excess baggage on commercial flights worldwide with no export restrictions.**



## K1 GIMBAL SYSTEM FEATURES

- 6-axis gyro stabilized with look down capability
- Open-architecture allows for creative freedom. Quickly interchange almost any camera or lens combination
- Capture remarkable 3D footage easily using the SHOTOVER 3D with adjustable I/O option\*
- Windowless operation for brilliant imagery without reflections
- Various top plate options are available to easily allow mounting to various platforms- land, sea and air
- No ITAR restrictions or EAR licensing requirements
- Low-weight carbon fiber structure with lighter gross weight than other systems
- Modular design allows transport as excess baggage on commercial flights
- Fiber optic video data transfer for clean 3GHz imagery
- State of the art electronics and design techniques deliver unshakable stability and ultimate functionality
- Customizable graphics overlay for real time operator feedback
- Auto or Steerable horizon with the most advanced steering capabilities on the market
- Remote controlled polarized filter rotation, rain deflector and other accessories available

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:

- Force Joystick Option
- Iris Wheel control on the side and top of controller
- Adjustable friction drag control for Iris Wheel and Focus Knob
- White Mark-up Ring added to Focus Knob
- Roll Rocker added, selectable control between Rocker and Joystick Twist
- Wrist Support with quick disconnect
- Common Camera Control Connector, with cables supplied for integration with Arri RCU-4, Sony RM-B750, Canon RC-V100
- Dual 5V USB A Ports for powering Accessories (including smartphones)
- Mount Holes on top & rear faces for accessories & monitor mounting



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# SYSTEM 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: +60 to -140 degrees  
 Roll: +/-85 degrees (steerable or auto horizon)  
 Max slew rate: 100 deg/sec

## DATA / COMMUNICATION

Fiber Optic lines  
 CAN Bus  
 RS 422 Serial Bus  
 Ethernet

## WEIGHT

Turret with max 3D payload\*\* approx. 110kg (240lbs)  
 Turret with min 2D payload\*\*\* approx. 80kg (175lbs)  
 Operator control unit 2.7kg (6lbs)  
 Junction control box 4kg (9lbs)  
 External cable set: 2.5kg (5.5lbs)  
 Fujinon 25-300 and Arri/Fujinon Alura 45-250 lens cases 61kg (134lbs)

## POWER

19-32 VDC  
 20 Amps Max Draw (at 28V)

## ENVIRONMENTAL

Operating Temperature: -20 to +50 degrees C

## OPERATOR CONTROL UNIT

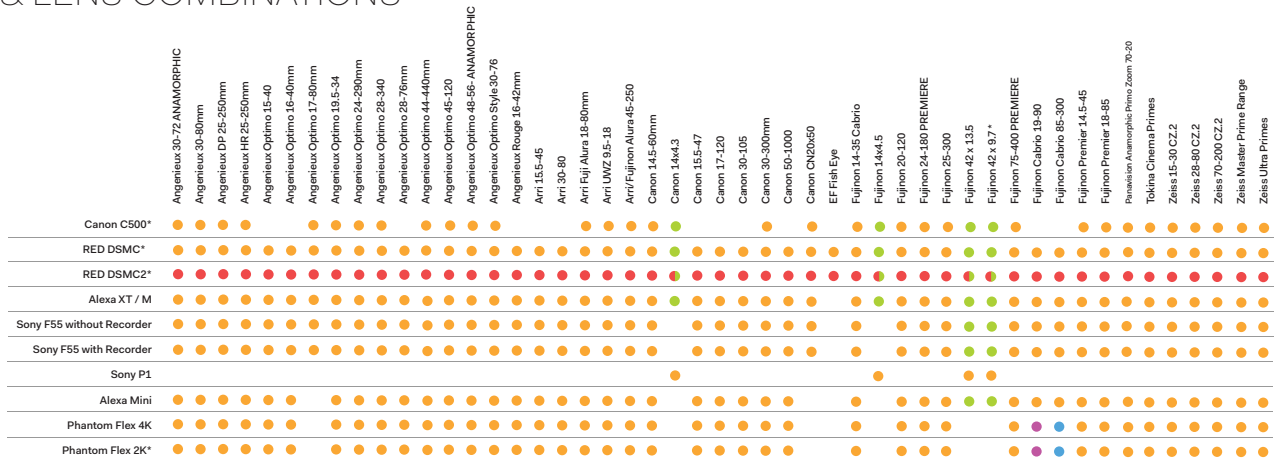
Lightweight  
 Customizable video overlay (Monitor Output)  
 Adaptable to camera remotes such as:  
 Sony RM-B750  
 Arri RCU-4  
 Canon RC-V100  
 Other control layouts available upon request



## SYSTEM OPTIONS

- Excess Baggage Cases:** The K1 easily can be broken down into cases that meet commercial airline size and weight requirements. This allows the K1 to be hand carried as excess baggage and faster transit times worldwide.
- Polarizer Filter Kit:** A polarizer filter that rotates at the push of a button on the Gimbal Controller enables the perfect shot by darkening skies, managing reflections, or suppressing glare.
- Force Joystick:** Designed at the request of some of Hollywood's top cinematographers, the Force Joystick is an alternative to the standard displacement joystick. It is designed to boost operator precision and control during high-speed shooting with a quick disconnect fitting that allows cinematographers to operate the gimbal freehand and away from the main controller.
- Monitor Mount:** Easily attach the monitor of your choice to the Gimbal Controller.
- Wireless Control Interface:** Allows the integration of off the shelf wireless link enabling the system to be used on various platforms when the operators controls the system at a distance.
- 3D Payload Assembly:** Allows two fixed adjustable cameras and lenses to be installed in the K1 side by side for 3D shooting. IO is adjustable from 14.6 to 25.4 cm
- Hydra:** Using a custom integration that synchronizes six RED Dragon 6K cinema cameras, the Hydra allows the construction of images that span an unprecedented 160 degrees field of view.
- Rain Spinner:** Water drops in front of the lens are a thing of the past. SHOTOVER proudly offers a way to keep the glass clear.
- HAMMERHEAD:** A 3 camera array developed by SHOTOVER for VFX and dome theater applications. The HAMMERHEAD is capable of a variety of camera and lens options and can be configured to shoot in portrait or landscape mode.

# CAMERA & LENS COMBINATIONS



KEY: ● = with HDx35 adaptor ● = IBE 2x ● = with or without IBE 1.4x ● = with Jetpack SDI Expander

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, W aragon 8K Vista Vision, Scarlet-W BK

\*The standard K1 configuration includes everything necessary to integrate the above camera and lens combinations with the exception of the Canon C500, Arri Alexa M, and Phantom Flex 2K. The K1 can fit payloads up to 760 mm in length. Please note cameras and lenses are not included

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