

# SHOT OVER

# M1

## SHOTOVER M1 The Future of Broadcast.

**A small and lightweight 6-axis gyro stabilized gimbal platform designed to meet the needs of 2K, 4K and 8K live broadcast. The SHOTOVER M1 features an open platform design that allows for future resolution growth, while delivering unshakable stability and unmatched look down capability. Like all SHOTOVER systems, the M1 is backed by industry-leading 24/7 service and support.**



### M1 GIMBAL SYSTEM FEATURES

- Smaller and lighter than heritage aerial broadcast systems
- SHOTOVER Generation5 technology delivers unshakable stability and ultimate functionality
- 6-axis gyro stabilized with unequalled look down capability
- Able to ship with payload fitted from the factory
- Compact size and weight allows affordable transport as freight or excess baggage
- Ultra-lightweight and rugged 6061-T6 aircraft aluminum structure
- No ITAR restrictions or EAR licensing requirements
- Compatible with most FAA and EASA approved aircraft mounts
- Various top plate options are available to easily allow mounting on various platforms - land, sea and air
- Integration with moving map platforms helps broadcasters quickly identify ground locations and addresses during fast moving assignments
- Quickly and easily interchange multiple cameras and lenses
- Angled front window for brilliant imagery without undesirable flares
- 3x SDI or fibre video options
- Customizable graphics overlay for real time operator feedback
- Auto or steerable horizon with the most advanced steering capabilities on the market
- Inverted operation using auto-position detectors
- No auxiliary box or power conditioner required
- Custom color scheme services available to match broadcaster's branding

In conjunction with system users, our engineers meticulously designed the SHOTOVER M1 gimbal controller. It provides the highest level of functionality with ideal placement of controls.

Features of the Gimbal Controller include:

- Layout allows fast transition from heritage systems
- Recessed cable connections for increased cable life
- Master rate control for rapid adjustment
- Integrated 15VDC 120W Monitor Power Supply
- Force Joystick Option
- Iris Wheel control on the side and top of controller
- LED display with customizable switches
- Ergonomic Wrist Support
- Fully integrated camera control units; Ikegami RM-70F, Sony RM-B750, & NEC
- Break out FI+Z control with Preston HU3
- Dual 5V USB A Ports for powering Accessories (including smartphones)
- Mount Holes 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: +50 to -110 degrees  
 Roll: +/-85 degrees (steerable or auto horizon)  
 Max slew rate: 100 deg/sec

## DATA / COMMUNICATION

SDI or Fiber Optic Video Options  
 CAN Bus  
 RS 422 Serial Bus  
 Ethernet

## WEIGHT

Turret without payload 18.9kg (41.6lbs) + payload  
 Operator control unit 2.5kg (5.5lbs)  
 External cable set: 1.0kg (2.2lbs)

## POWER

24-60 VDC  
 10 Amps Max Draw (at 28V)

## ENVIRONMENTAL

Operating Temperature: -20 to +50 degrees C

## OPERATOR CONTROL UNIT

20-58VDC  
 Customizable video overlay (Monitor Output)  
 Recess for camera remotes such as:  
 Sony RM-B750 & Ikegami RM-70F  
 Custom control layouts available upon request

# SYSTEM OPTIONS

- Travel Mount:** Easily converts an M1 shipping case into a mobile gimbal stand while on the go. The travel mount allows easy setup of the M1 no matter where your job takes you.
- Excess Baggage Cases:** The M1 easily breaks down into cases that meet commercial airline size and weight requirements. This allows the M1 to be hand carried as excess baggage and faster transit times worldwide.
- 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.
- Mitchel Mount:** Adapts your system to any ground based platform with the Mitchell Mount.
- Demist Fan:** Occasionally environmental conditions require a front window to be used and damp environments can cause fog to accumulate inside the window. With the Demist Fan, fog is eliminated.

# CAMERA & LENS COMBINATIONS

	Fujinon 42x9.7 (HD)	Fujinon 42x13.5 (HD)	Fujinon 24x7.8 (4K)	Canon C-J45x9.7 (4K)	Canon C-J20x7.5 (4K)	Canon HJ40x10 (HD)	Canon HJ40x14 (HD)	Fujinon Cabrio 19-90	Fujinon Cabrio 85-300	Canon 30-300	Canon 17-120	Canon Cine Primes	Canon EF Primes	Canon Fish Eye	Angenieux 45-120	Angenieux 15-40 / 28-76	Angenieux 25-250 HR	Zeiss Master Prime
Sony P43 Repackage (4K)	●	●	●	●	●	●	●											
Sony P1 (HD)			●		●													
Ikegami F3000 (HD)	●	●	●	●	●	●	●											
NEC H1200 (HD)																		
Grass Valley LD86C (4K)			●		●													
Grass Valley LD80C (HD)			●		●													
RED DSMC2								●	●	●	●	●	●	●	●	●	●	●
ARRI Mini								●	●	●	●	●	●	●	●	●	●	●
Sony F55								●	●				●	●	●	●	●	●
Sony Venice								●	●				●	●	●	●	●	●

KEY: ● = with Jetpack SDI Expander

RED DSMC2: Weapon 6K, Scarlet Weapon, Epic-W S35, Weapon 8K S35, Weapon 8K Vista Vision  
 Please note cameras and lenses not included



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