



SHOT OVER | 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 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 and no gimbal lock
- 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
- Integrated IMU options for 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 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.
- 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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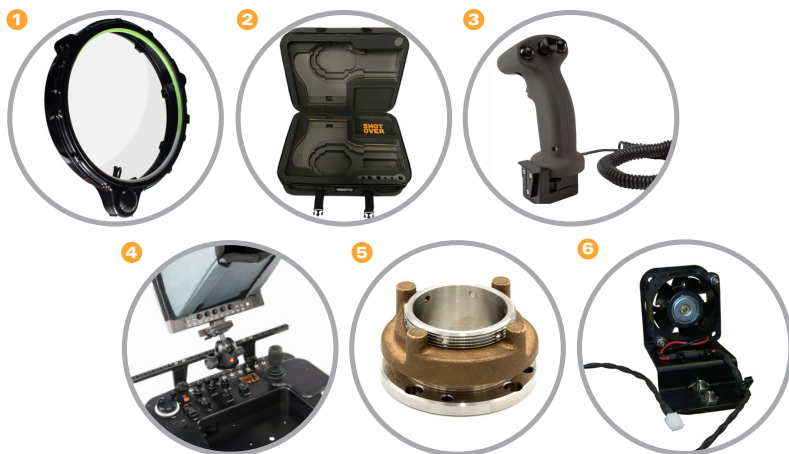
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M1 SYSTEM OPTIONS



- 1 Rain Spinner:** Mounted on the system's front cover, the rain spinner rotates at approximately 3,000 rpm, creating a centripetal acceleration, which whisks water away from the glass to ensure clear shooting in wet weather.
- 2 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.
- 3 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.
- 4 Monitor Mount:** Easily attach the monitor of your choice to the Gimbal Controller.
- 5 Mitchel Mount:** Adapts your system to any ground based platform with the Mitchell Mount.
- 6 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)	Fujinon 46x9.5 (4K)	Fujinon 46x13.5 (4K)	Canon HJ24x7.5 (HD)	Canon HJ40x10 (HD)	Canon HJ40x14 (HD)	Canon CJ20x7.5 (4K)	Canon CJ45x9.7 (4K)	Fujinon Cabrio 19-90	Fujinon Cabrio 85-300	Fujinon Premier 18-85	Fujinon Premista 28-100	Fujinon Premista 80-250	Canon 17-120	Canon 30-300	Canon 50-1000	Canon Cine Primes	Canon EF Primes	Canon Fish Eye	Angenieux 45-120	Angenieux 15-40 / 28-76	Angenieux 25-250 HR	Zeiss Master Prime	Panavision 4PZW 28-80	Panavision 4PZW 70-185
Sony P50 (4K)	●		●	●		●	●		●	●																	
Sony P43 (4K)	●		●	●		●	●		●	●																	
Sony P1 (HD)	●		●	●		●			●	●																	
Sony P70 (HD)	●		●	●		●	●		●	●																	
Ikegami F3000 (HD)	●	●			●		●			●																	
Ikegami F4000 (4K)	●	●		●	●		●	●		●																	
NEC NC-H1200S (HD)	●	●		●	●		●	●		●																	
Grass Valley LD86C (4K)	●		●	●		●			●	●																	
Grass Valley LD80C (HD)	●		●	●		●	●		●	●																	
RED DSMC2 **											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
RED Komodo ~											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
ARRI Mini											●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	
ARRI Mini LF											●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	
Sony F55											●	●				●	●	●	●	●	●	●	●	●	●	●	
Sony Venice											●	●				●		●	●	●	●	●	●	●		●	

KEY: ** = with Jetpack SDI Expander
~ = RF Lens Mount Adaptor Required

M1 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 deg (+45 to -120 Deg max option)
Roll: +/-75 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 +40 degrees C
Environmentally Sealed (IPX6)

OPERATOR CONTROL UNIT

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

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