

# AEROPTICS

AERIAL CINEMATOGRAPHY

## TECHNICAL SPECIFICATONS – Shotover F1 – July 2015



The **Shotover F1** is a 6 axis gyro stabilized platform that delivers unshakeable stability with a creative look down capability for use inverted, or right side up—on almost anything that moves. It rigs fast and accommodates over 120 camera and lens combinations, for the look you want. Its compact carbon fiber construction means it ships as excess baggage on commercial flights worldwide with no export restrictions.

**Aeroptics** have a range of camera and **lens options available in house** for our owner/operated F1, including the Fujinon HA 42X 9.7 BERD lens which DoP Peter Thompson has used extensively for high-end documentary and feature film work for over 10 years. We also have Angenieux Optimo DP25-250 and Canon CN-E 50-1000 PL mount lenses and were fortunate to be the first to fly these lenses in the F1 gimbal.

**Current in-house camera options** include Sony HDC-2500 (HD), Canon C500 (4K) and Arri Alexa Mini (UHD-HD), with Red Dragon (6K), and Sony F55 cameras available locally from industry colleagues.

Check out the combinations available on the chart below and **give us a call: +64 21 419 215**

We can source and quote on any of the compatible payloads.

### Shotover F1 Camera & Lens combinations (July 2015)

	Canon 30-300	Canon 14.5-60	Angenieux Optimo 15-40	Angenieux Optimo 16-40	Angenieux Rouge 16-42	Angenieux Optimo 28-76	Angenieux Optimo 17-80	Angenieux 25-250 HR	Angenieux 25-250 DP	Arri/Fujinon Alura 18-80	Fujinon Premier 18-85	Fujinon Premier 14.5-45	Fujinon Cabrio 19-90	Fujinon Cabrio 85-300	Fujinon 42 x 9.7	Fujinon 42 x 13.5	Zeiss 14mm Master Prime	Zeiss 16mm Master Prime	Fujinon 25-300	Arri/Fujinon Alura 45-250	Arri UWZ 9.5-18	Canon 17-120	Canon CN20x50	Canon 14x4.3	Fujinon 14x4.5	EF Fish Eye	
Canon C500															*	*								*	*	*	
RED Epic X / Dragon															*	*									*	*	*
Arri Alexa M																								*	*	*	
Sony F55 without Recorder																								*	*	*	
Sony F55 with Recorder																											
Sony 2500 - Repackaged																											
Sony P1																											
Alexa Mini																											
Phantom Flex 4K																											

KEY: \* = with HDx35 adaptor \*\* = IBE 2x \*\*\* = with or without IBE 1.4x

For updated specs see [www.shotover.com](http://www.shotover.com)

Aeroptics operations base is only 10 minutes away from the Shotover design and manufacturing facility in Queenstown, New Zealand.

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## Shotover F1 System Features

- Quickly and easily interchange multiple cameras and lenses
- Compact size and weight allows affordable transport as freight or excess baggage
- 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
- Easily integrated onto a wide variety of mounting platforms
- 6-axis gyro stabilized with look down capability
- Windowless operation option for brilliant imagery without reflections
- Fiber optic video data transfer for Quad 3G HDSI 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
- Inverted operation using auto-position detectors
- Remote controlled polarized filter rotation, rain deflector and other accessories available
- Dual 5V USB A Ports for powering Accessories (including smartphones)
- Mount Holes on top & rear faces for accessories & monitor mounting

### 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: +45 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 payload less than 59kg (130lbs)
- Operator control unit 2.7kg (6lbs)
- Junction control box 4kg (9lbs)
- External cable set: 2.5kg (5.5lbs)

### POWER

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

### ENVIRONMENTAL

- Operating Temperature: -20 to +50 degrees C

### OPERATOR CONTROL UNIT

- Customizable video overlay (Monitor Output)
- Recess for camera remotes such as:
  - Sony RM-B750
  - Arri Starlight LCD
  - Canon RC-V100