


# TRANSFORMER

## TFR-1 · TFR-2 · TFR-3

***We understand creating images that last forever is no easy task. IMMORTAL Camera Systems focuses on designing gyrostabilized camera systems to ensure that you get the shot - every time.***

*The TRANSFORMER Gimbal series is designed to unlock the DP's creativity by offering big performance in a small package. It leverages the capability of PHOENIX, the market-leading 6-axis stabilized gimbal, to offer stability, operator usability and payload flexibility for cranes, tracking vehicles and live broadcast environments.*

- *Rugged billet aluminum structure*
- *Unmatched pan and tilt motor torque*
- *Accommodate bigger payloads in a small gimbal without large amounts of counterweight*
- *Market-leading stabilization with zoom or prime lenses*
- *Cine-friendly design allowing rapid lens changes*
- *Sealed for heavy rain with payload raincover*
- *WiFi and Cellular access for configuration and live remote support*
- *Capacitive touch controller screen with embedded camera control*
- *Nodal roll axis with 360° continuous range of motion*
- *Connect Gimbal straight to the Controller - No Power Box or Auxbox*
- *Mounts to boats, cranes, jetskis, and cars - basically any unstable platform*

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# SPECIFICATIONS TFR-3

## STABILIZATION

- 3-axis with 360° nodal roll
- High performance non-ITAR sensors
- Proprietary gimbal control algorithms
- Horizon level, POV and Shaker modes
- Max motor torque 20 Nm / 14.8 ft-lb (pan and tilt)

## GIMBAL FIELD OF VIEW

- Pan: 360° continuous
- Tilt: +45° to -130°
- Roll: 360° continuous (requires wireless video encoder)
- Max slew rate: 250°/sec

## SIZE, WEIGHT, POWER

- Smallest Configuration
  410 mm (16.1 in) wide x 490 mm (19.3 in) tall
- Camera build volume 180 mm (7.1 in) x 230 mm (9.1 in) OD
- Gimbal without payload 12 kg (26.5 lbs)
- Operator control unit 2.7 kg (6 lbs)
- Power 24-60 VDC (40A, 1900W max)

## ENVIRONMENTAL

- Operating temperature: -20°C to +50°C (-4°F to 122°F)
- IP64 sealed

## DATA / COMMUNICATION

- Ethernet 10/100
- Wireless IP radio options
- Ethernet-over-Fibre option
- 2 × 12G SDI through fiber optic
- Gimbal data lockable to timecode
- SMPTE Fiber options
- Wifi Configuration (Phone/Tablet)

## CONTROLLER

- Joystick and Wheels Options
- 2 × 12VDC XLR power out
- Capacitive touch screen with full gimbal configuration
- Integrated camera control (Ethernet for SONY, RED and ARRI)
- Camera run / stop
- Monitor mount
- Customizable layout and user profiles

## STRUCTURE

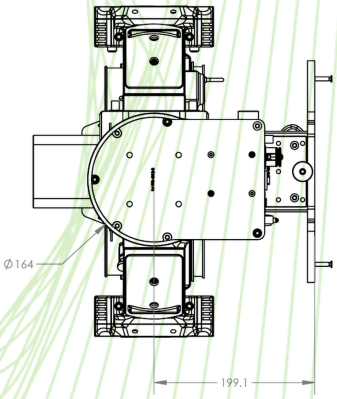
- 6061-T6 billet structure
- Mitchell, dovetail and cheeseplate mount options
- Max speed 112-150kph (70-150 mph) *Payload dependent
- Max payload 25 kg (55 lbs)
  *G-loading dependent
- Optional Top Payload plates

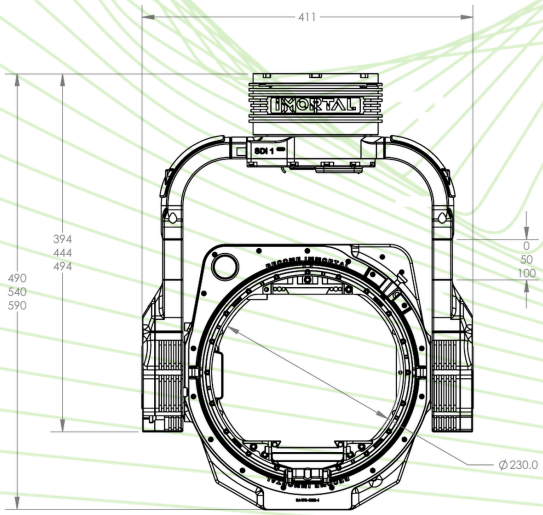
## PAYLOADS

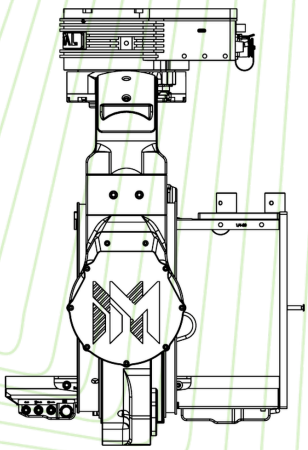
- Flexible payload system with dovetail and Heden MV21 lens motors allows almost any camera and lens combination
- Canon and Fujinon broadcast lens Servodrive integration
- Preston, CMotion and ARRI Hi5 integration
- Minimum payload example: SONY FX3 & Canon 35mm prime
- Maximum cinema payload example: ARRI 35 & Canon CN20
- Maximum broadcast payload example: SONY HDC5500 & Fujinon UA24x

## SHIPPING

- Gimbal Case - Pelican 1646
- Controller Case - Pelican 1637



*Specifications are subject to change without notice. Figures are nominal and may vary with configuration, payload and operating conditions.*

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