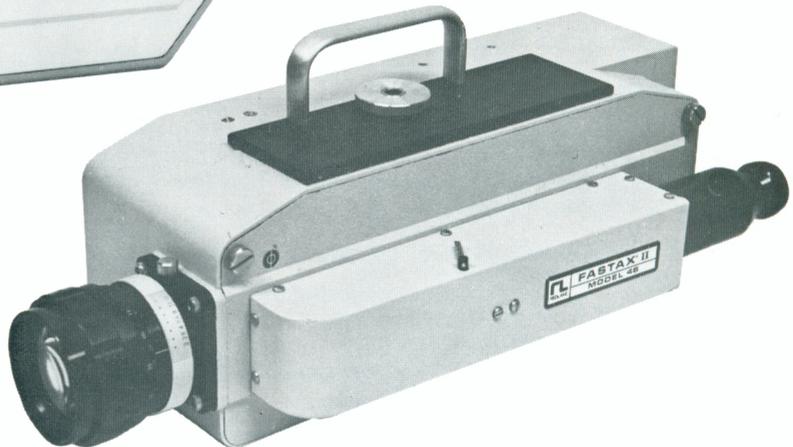
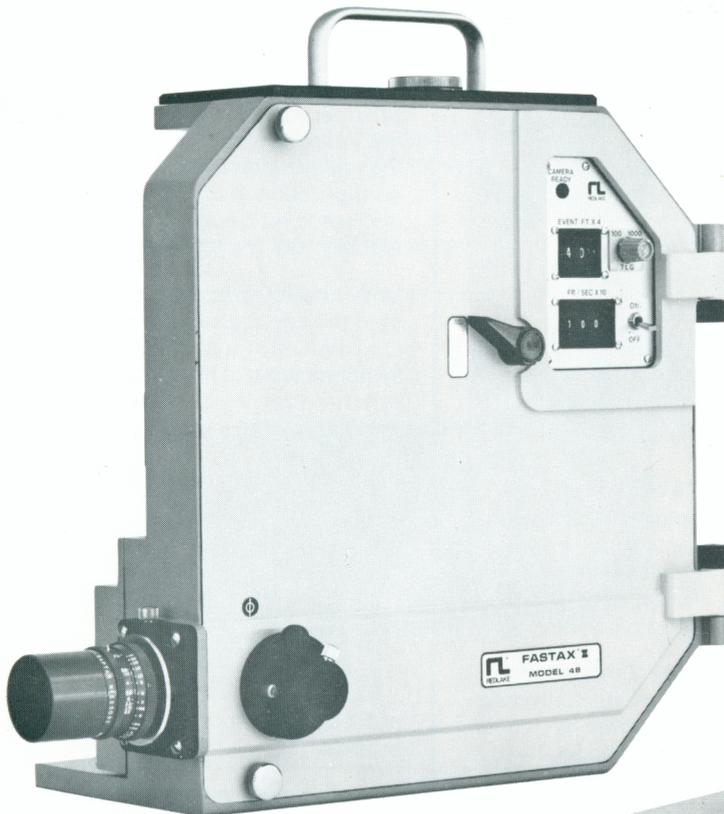


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PRECISION PHOTO-INSTRUMENTATION SYSTEMS

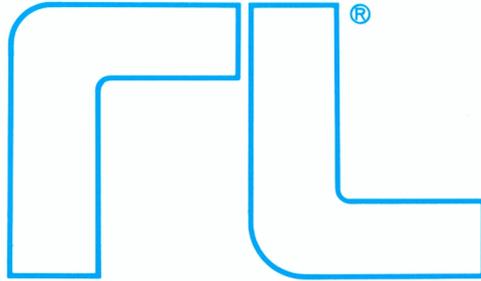
# FASTAX<sup>®</sup> II

*family of high speed 16mm rotating prism cameras*



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The time-honored Fastax needs no introduction to the world of Photo-Instrumentation. For over 30 years the word Fastax has been synonymous with High Speed Photography. The key factors in its longevity are simplicity and reliability.

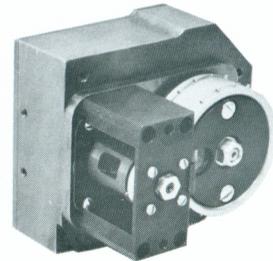
The new generation Fastax II retains the traditional Fastax benefits while integrating the improvements made possible by current technology. Design changes have been carefully human engineered to simplify operation and to enhance overall performance. The result is a modern and rugged 16mm High Speed rotating prism camera designed for daily use in outdoor test condition environments.

**Features Include:**

- AC or DC operation
- Built-in Electronic Servo Control with speeds up to 10,000 FR/SEC.
- 100' model designed for high-g environments
- High light transmission, f/2.7 aperture
- Dual LED Timing Lights
- Built-in Timing Light Generator
- Built-in Event Synchronizer
- Stop/Start operation
- Light weight construction
- Interchangeable Lens Plates
- Provision for top & bottom mounting

The new generation Fastax II is available in 100' and 400' models with a choice of various AC or DC models in full or half-frame formats. The 400 foot camera incorporates the film supply brake system and motor drive which has been so successful in the HYCAM for handling 400 foot film rolls.

The optical system utilizes the original Fastax single prism element principle which is designed to furnish maximum practical light transmission efficiency. This makes the Fastax II especially well suited for outdoor filming where sunlight provides the principal illumination. The Fastax II's rotating prism/sprocket module's are interchangeable.



This allows conversion to half-frame or streak configuration in all cameras. New gearing and sprocket design provide improved picture stability and are lubricated for life.

Built-in electronic control provides regulation over the camera's entire speed range. Conveniently located direct reading digit switches control frame rate and event synchronizer. A ready light indicates that



the camera is ready to operate. Provision for remote START/STOP control is built-in. Other controls include ON-OFF switch, film remaining indicator and pulse rate switch for the built-in Timing Light generator. Electrical connectors

and pin assignments are common to all models.

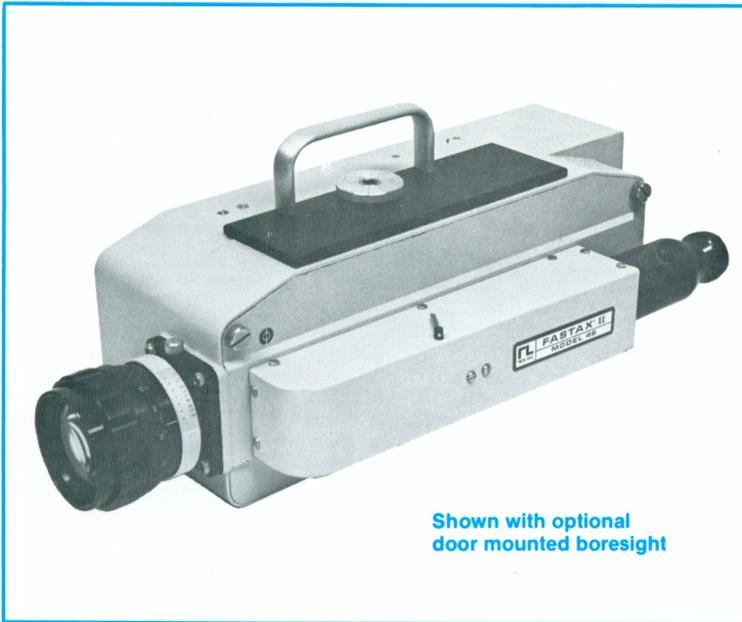
Three boresights include door mounted (right photo) and straight or right angle viewing (below) with 10X magnification. The right angle boresight rotates 360° for viewing from any position. A spring loaded shutter prevents stray light from entering thru the boresight and accidentally fogging the film.



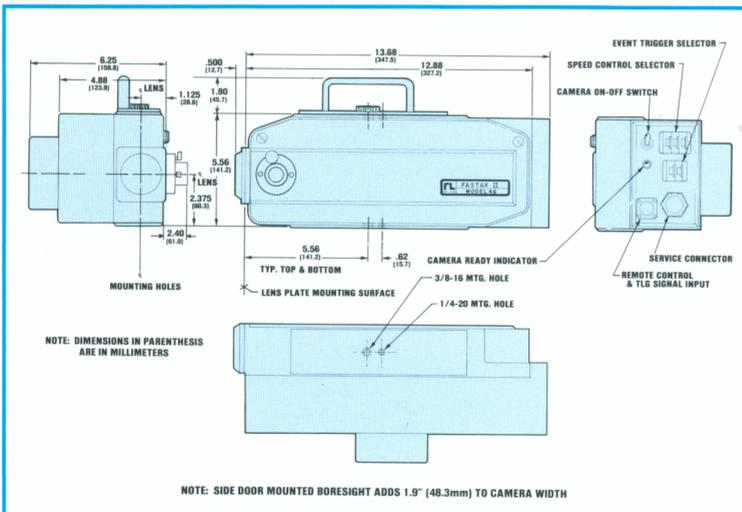
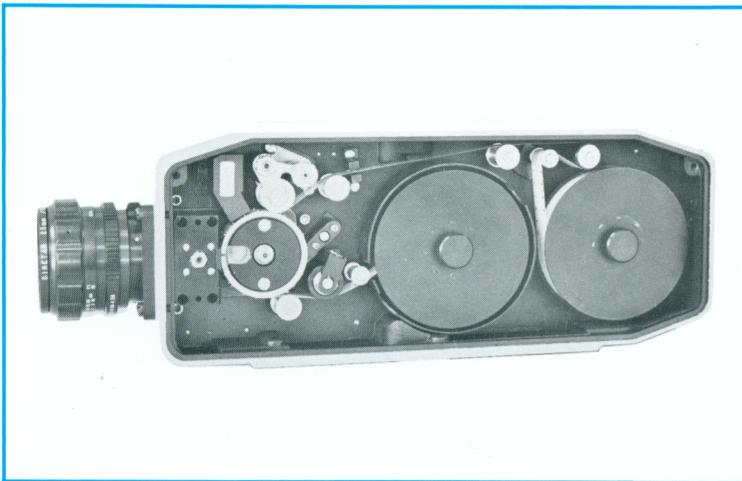
This newest addition to the Fastax line provides the performance benefits you've come to expect from Redlake precision instrumentation cameras.

Complete specifications on Series 46 and 48 Fastax II cameras are provided on the following pages.

# FASTAX<sup>®</sup> II model 46 specifications



Shown with optional door mounted boresight



- OPTICAL SYSTEM:** Rotating prism, 4 sided, with natural aperture of f2.7.
- FILM TRANSPORT:** 16mm continuous flow, sprocket is synchronized with the rotating prism. A single motor drives the take-up spool and the film functions as a belt to drive the sprocket shaft and prism assembly.
- FILM TYPE:** 16mm ASA standard, perforated two sides. Accepts 0.3000" Hi-speed pitch film on daylight loading spool.
- FILM CAPACITY:** 16mm x 125' polyester base.
- SPEED RANGE:** 200 to 6,500 fr/sec. with polyester base.
- SPEED SELECTOR:** Thumbwheel speed selector switch, self-locking at each position. Provides setability to 10 fr/sec. increments.
- SPEED CONTROL** Electronic servo control provides regulation over the entire speed range.
- SPEED REGULATION:**  $\pm 1\%$  over the entire range.
- ACCELERATION:** .9 seconds to 5,000 fr/sec. utilizes 50' of film to this speed (nominal).
- EVENT SYNCHRONIZER:** Thumbwheel selector, 1 to 99 feet in 1 foot increments. Provides switch closure or opening when selected film footage is reached. Accuracy  $\pm 5\%$  or better.
- LENS PLATES(S):** Standard FASTAX bayonet type. Available with NIKON, PENTAX universal thread and Ilex/Photosonics flange mount.
- ELECTRICAL CONNECTORS:** Bendix bayonet type: PT07E-14-12P & PT00E-10-6P. Mating connectors provided.
- POWER REQUIREMENTS:** 115VAC  $\pm 5$  VOLTS 60 Hz. with 20 ampere circuit. Instantaneous current may be higher. Camera is fused at 15 AMPS.
- WEIGHT:** 15.5 pounds, less lens and film.
- OPERATIONAL ENVIRONMENT:** Acceleration/ Shock: 50g's in both directions of the 3 principal axes.
- FINISH:** Tough epoxy paint, light and medium tan, white finish is optional.
- CONSTRUCTION:** Cast aluminum with integral midrib and removable door.
- MOUNTING PROVISIONS:** Top and bottom, 3/8" -16 & 1/4" -20 mounting holes with steel inserts. Bottom surface has 4 hole pattern for dovetail base plate. Same pattern available on top surface.
- CARRYING HANDLE:** Detachable handle located on top surface.

**NOTE**  
The 100 foot series 46 FASTAX II camera is available in five other configurations. These include half-frame, 230VAC and 50VDC to 90VDC models. Model designations and specifications are detailed in the price schedule and instruction manual.

- STANDARD ACCESSORIES**
- Dual LED or Neon Timing Lights
  - Built-in Timing Light generator 100, or 5,000 Hz (LED only)
  - Boresight tools: Side door mounted, straight and/or right angle with 10X magnification. Right angle model rotates 360°.
  - Heater 28VDC/115VAC for operation to 0°F.
  - Interchangeable prism and streak modules for 1/2 frame streak & synchroballistic photography.
  - Carrying Case
  - Power Cables
  - Lenses: Wide angle to telephoto in standard FASTAX bayonet or other mounts.

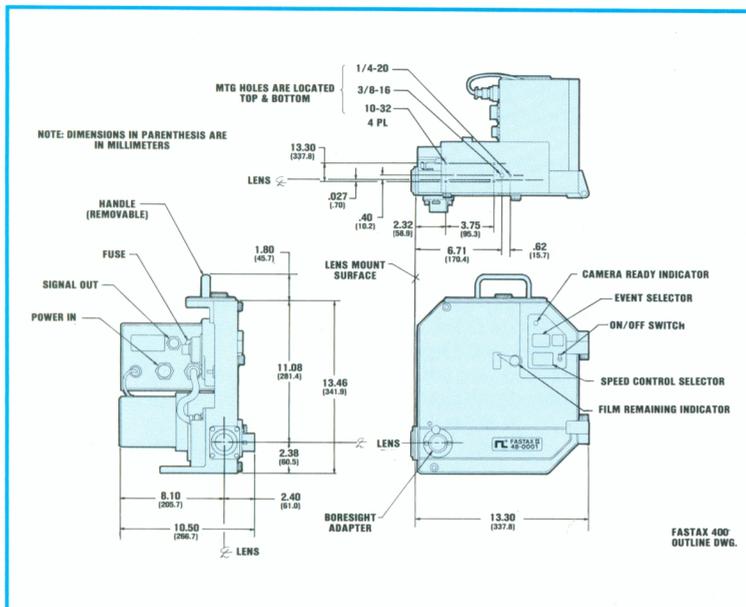
**OPTIONAL EQUIPMENT AVAILABLE FOR 46 AND 48 SERIES CAMERAS**  
Timing light generators, tripods, mounts, lighting equipment, light meters, analysis projectors, etc. See price schedule for complete listing of accessories and optional items.

# FASTAX® II model 48

# specifications



- OPTICAL SYSTEM:** Rotating prism, 4 sided, with natural aperture of f2.7.
- FILM TRANSPORT:** 16mm continuous flow, sprocket is synchronized with the rotating prism. A single motor drives the take-up spool and the film functions as a belt to drive the sprocket shaft and prism assembly.
- FILM TYPE:** 16mm ASA standard, perforated two sides. Accepts 0.3000" Hi-speed pitch film on daylight loading spool.
- FILM CAPACITY:** 16mm x 450' polyester.
- SPEED RANGE:** 400 to 10,000 fr/sec.
- SPEED SELECTOR:** Thumbwheel speed selector switch, self-locking at each position. Provides setability to 10 fr/sec. increments.
- SPEED CONTROL:** Electronic servo control provides regulation over the entire speed range.
- SPEED REGULATION:** ±1% 400 to 9,000 fr/sec. and ±3% to 10,000 fr/sec.
- ACCELERATION (Typical):** 1.25 seconds to 5,000 fr/sec., utilizes 120' of film to this speed (nominal).
- EVENT SYNCHRONIZER:** Thumbwheel selector, 4 to 396 feet in 4 foot increments. Provides switch closure or opening when selected film footage is reached. Accuracy ±5% or better.
- LENS PLATE(S):** Standard FASTAX bayonet type. Available with NIKON, PENTAX universal thread and Ilex/Photosonics flange mount.
- ELECTRICAL CONNECTORS:** Bendix bayonet type: PT07E-14-12P & PT00E-10-6P. Mating connectors provided.
- POWER REQUIREMENTS:** 120VAC ±5 VOLTS 60 Hz. with 30 ampere circuit. Instantaneous current may be higher. Camera is fused at 30 AMPS.
- WEIGHT:** 31 pounds, less lens and film.
- FINISH:** Tough epoxy paint, light and medium tan, white finish is optional.
- OPERATIONAL ENVIRONMENT:** Acceleration/ Shock: 25g's in both directions of the 3 principal axes.
- CONSTRUCTION:** Cast aluminum with integral midrib with hinged and removable door.
- MOUNTING PROVISIONS:** Top and bottom, 3/8" -16 & 1/4" -20 mounting holes with steel inserts. 4 hole pattern for dovetail plate on both surfaces.



- NOTE**
- The 400 foot series 48 FASTAX II camera is available in eight other configurations. These include: half-frame, 230VAC and 50VDC to 120VDC models. Specification and model designations are detailed in the price schedule and instruction manual.
- STANDARD ACCESSORIES**
- Dual LED or Neon Timing Lights
- Built-in Timing Light generator, switchable 100 or 1,000 Hz. (LED only)
- Boresight tools: Straight and Right angle with 10X magnification. Right angle model rotates 360°.
- Heater: 115VAC/28VDC & 230VAC/28VDC for operation to 0°F.
- Interchangeable prism and streak modules for 1/2 frame streak & synchroballistic photography.
- Power Cables
- Carrying Case
- Lenses: Wide angle to telephoto in standard FASTAX bayonet or other mounts.



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