

FP 30/38 EC II REFERENCE

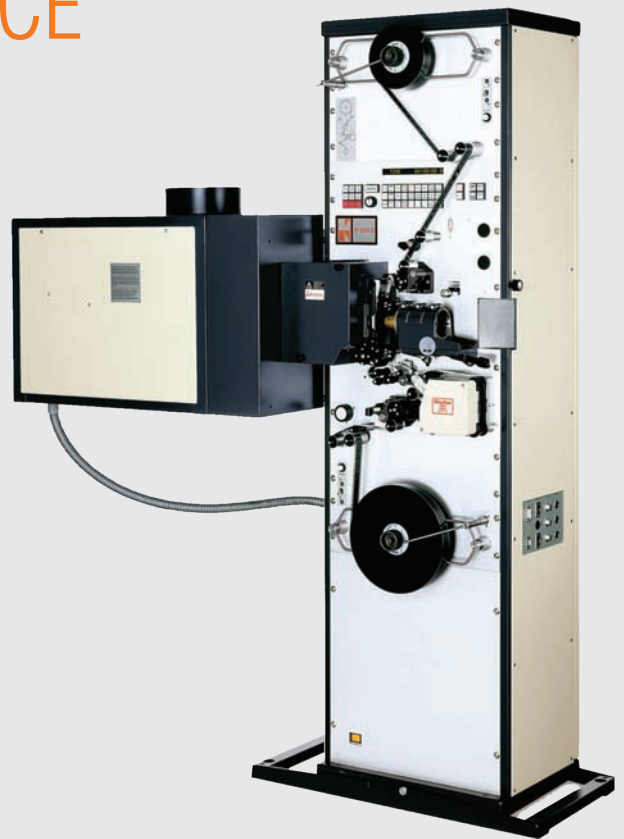
Studio Projectors

Our studio projectors of the EC series are the highest standard for all renowned studios worldwide. Their flexibility makes them perfect for various applications such as mixing, post production, preview and print QC.

Their unsurpassed quality, versatility and reliability have earned Kinoton a Scientific and Engineering Award* already. Now the digital REFERENCE intermittent drive has once again raised the bar of projection quality significantly.



* Awarded by the Academy for Motion Picture Arts and Sciences in 2004.



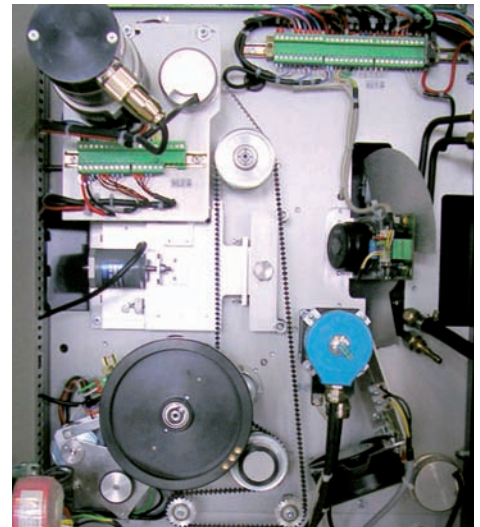
Top Features

- » Direct and highly dynamic digitally controlled intermittent drive
- » Optimum projection quality due to correction software
- » Picture steadiness values 3 times better than SMPTE standards
- » Excellent focus due to substantially extended picture dwell time and vibration-free film transport into the gate
- » Over 25% increase in light efficiency due to extremely short pull-down time of only 8 milliseconds
- » Projection speeds from 1 up to 50 fps, depending on version
- » Continuously running, electro-nically controlled shutter for flicker-free projection with 2-blade and 3-blade shutter modes
- » Shuttle operation up to 400 fps (16 mm) / 300 fps (35 mm)
- » Microprocessor controlled film core shafts with switchable rotation direction
- » Optional spool shafts
- » Constant, low film tension at all winding diameters protects the film
- » Electronic hand wheel
- » Reverse scan studio sound reader for analog and Dolby digital sound tracks (flywheel automatically disengages and pre-accelerates)
- » Automatic shuttling system
- » Shift (offset, or advance/retard) function in slave mode
- » Zero location (return to zero)
- » Fully controllable by computer systems (RS 232)
- » Remote control panels available
- » Optional RS 422 interface (SONY 9-PIN protocol)
- » Remote software for operation by PC or touch panel via RS-422 interface / SONY 9-pin protocol (optional)
- » Can be used as master or slave
- » User-configurable software
- » Robust and reliable
- » FP 38 EC II: simple and quick change of formats (16/35)

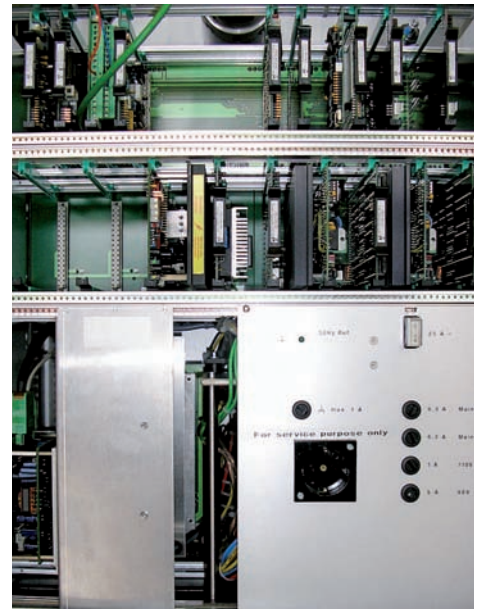
DIGITAL CINEMA
FILM TECHNOLOGY
STUDIO TECHNOLOGY
CUSTOMIZED SOLUTIONS
360° DISPLAY SYSTEMS

Technical Data

Mains Voltage	115 V / 120 V / 230 V / 240 V
Frequency	50 Hz / 60 Hz
Power Input	500 VA (without lamp source)
Film Capacity	600 m (2,000 ft) on cores
Light Sources	Special xenon lamphouses for 500 - 5,000 W
Lens Holder	Ø 70.6 mm (2-25/32 in) or Ø 101.6 mm (4 in)
Projection Speeds	<ul style="list-style-type: none"> » Standard: single frame, 24 fps, 25 B/s, 40 fps » User-specific fixed speeds between 1 - 50 fps » Variable speed 1 - 50 fps via potentiometer
Shutter Modes	<p>60 Hz Shutter:</p> <ul style="list-style-type: none"> » 1 - 15 fps: 60 Hz not synchronized » 15 - 20 fps: 3-blade mode synchronized » 20 - 31 fps: 2-blade mode synchronized » 31 - 45 fps: 60 Hz not synchronized » 45 - 50 fps: 1-blade mode synchronized <p>72 Hz Shutter:</p> <ul style="list-style-type: none"> » Just as with 60 Hz, but at: 15 - 25 fps: 3-blade mode synchronized
Shuttle Speeds	<ul style="list-style-type: none"> » 16 mm: up to 400 fps » 35 mm: up to 300 fps
Acceleration Time	<ul style="list-style-type: none"> » 16 mm: < 0.3 seconds » 35 mm: < 4.5 seconds
Picture Steadiness	<ul style="list-style-type: none"> » 16 mm: vertical < 0.08 %, horizontal < 0.2 % » 35 mm: vertical < 0.03 %, horizontal < 0.1 %
Framing	Electronically controlled, endless
Sound	<ul style="list-style-type: none"> » 35 mm: COMOPT, Dolby Digital, DTS and SDDS » 16 mm: COMOPT, COMMAG
Synchronous Inputs & Outputs	<ul style="list-style-type: none"> » 2 x 50 / 100 / 250 Hz biphasic » 75 pulses per frame with clock and direction » Via RS 422 - Sony 9-PIN (option) » Customer specific
Net Weight	185 kg (410 lbs)(without lamphouse)
Gross Weight	270 kg (600 lbs)(without lamphouse)
Versions	<ul style="list-style-type: none"> » FP 30 EC II for 35 mm (optional: Super 35 mm) » FP 38 EC II for 16 mm and 35 mm (optional: Super 16 mm and/or Super 35 mm)



Intermittent sprocket drive



Drive electronics

See the Difference.



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