# Golden Eye III Film Scanner

The Optimal Scanning Solution for DI and Restoration

GOLDEN EYE III is a high speed and high-resolution, 2K or 4K, film scanner for motion picture film. The scanner handles Negative, Print and Intermediate in all major film formats: 16 / 35 / 70 as well as 8 mm. The high performance makes the scanner the perfect tool for DI, Archiving and Restoration.
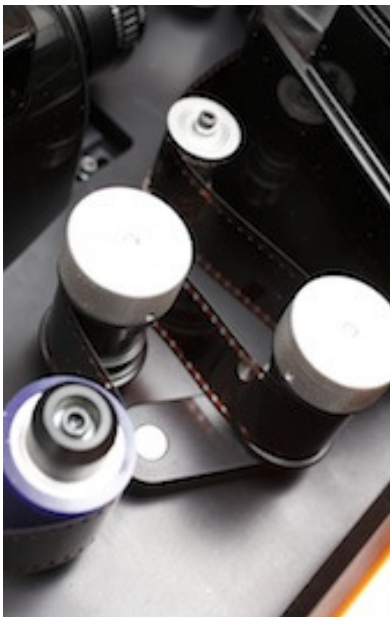
The *latest generation*, Golden Eye III, includes many new features:

- **Highest Image Quality using LED Light Source** - The new light source technology offers increased Colour Depth, Sharpness and Durability.

- **Decreased Processing Time** - The new Golden Eye III user interface offers a complete new layout and new features like; Image Cache with preview, more effective EDL handling and improved Colour Management.

- **Efficient Mechanical Handling** - The Golden Eye III platform has been modified with new Layout and Quick Change Optics for efficient operation changing film formats.

- **More Effective Primary Grading** using HD/SDI output and support for Tangent Wave Control Panel.

The unique film transport, using capstan drive and optical registration, is optimized for gentle handling of old fragile film from the archives. For restoration the high resolution scans, 2K or 4K, are scanned directly to the SAN, instantly accessible to the restoration suite as DPX, TIF or other.

In archiving applications GOLDEN EYE can be used for WEB or DVD distribution. 8 mm, 16 mm, 35 mm or 70 mm film can be scanned in up to real time speed into SD or HD resolution, instantly available as Quicktime, TIF, DPX or AVI sequences.

In the DI workflow the one and same GOLDEN EYE acts as a Telecine, making digital dailies in real time for editing and scanning high resolution selects from EDL's for colour grading.

The Image Cache functionality allows fast set-up of the batch recording without running the film back and forth. Functions like; Set punch hole, Adjust clip position, Preview of each clip and Primary grading of each clip, can all be performed from the Image Cache.

Colour grading can be performed via External Panel or using Vectorscope, RGB-Waveform or Histogram in the Golden Eye Control software. The efficient basic set-up uses Automatic Exposure, Automatic Dmin/Dmax and Automatic Film Base Adjustment. HD-SDI output is available for preview.

Sound Decoding and Keycode is handled by software using the additional image sensor in Golden Eye.

Technical Specification – Golden Eye III

Applications
- Restoration of old shrunken film in SD, HD, 2K or 4K resolution
- High-resolution scanning for DI grading
- Real time scanning into digital dailies or WEB/DVD distribution

Sensor
- 2K or 4K sensor
- 2K sensor pixel size 14x14 µm
- 4K sensor pixel size 10x10 µm
- True RGB: One sensor per colour
- Bit depth: 12 bits per colour

Speeds
- Up to 15 fps in full 2K resolution
- Up to 4 fps in full 4K resolution
- Real time scanning in automatic down sampling mode
- Overview speed up to 65 fps
- Winding speed up to 4 m/s (200 fps)

Film Types
- Colour Print and Negative
- B/W Print and Negative
- Intermediate

Mechanics
- Golden Eye III platform
- Maximum Reel size 2000 feet
- Gentle film transport with continuous movement
- Gate options: Non-contact gate or Full support gate for old warped film
- Scanner dimensions (mm): 1000 x 800 x 400

Optical Registration
- Image registration and synchronization performed in software

Film Formats
- 8 mm (Regular and Super)
- 16 mm (Regular and Super)
- 35 mm (Academy and Super)
- 70 mm
- Other film formats available on request

Colour Management
- Automatic Dmin and Dmax calibration
- Automatic exposure control
- Film base correction
- Custom colour setting via RGB Waveform, Vector Scope or Histogram

Batch Recording and Image Cache
- Automatic scan from EDL-Clip list
- Punch hole setting from Cache
- Colour grading of each clip from Cache
- Preview from Cache

Output / Supported File Formats
- Multiple Tiff (optional compression)
- DPX (8, 10, 16 bit log or linear)
- Quicktime: Uncompressed or PC-installed codecs
- MPEG, AVI, WMV and more

Acquisitions
- Free format or fixed scan ratios (4:3) (16:9)
- Windowed acquisition
- Image rotation, flip and mirroring

Options
- Keycode reader
- Optical sound decoding
- HD / SDI output for preview
- Transport control and colour grading from external panel: Tangent Wave

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