



image SYSTEMS **GOLDEN EYE** **RECONNAISSANCE**

A unique Film Scanner for 5 inch aerial film

Golden Eye Reconnaissance is a high speed and high-resolution film scanner for aerial film. 5 inch (127mm) film is scanned in 100 mm/s. Output formats include multiple Tiff and multiple JPEG 2000.

The Golden Eye Reconnaissance is developed to rapidly digitize film from airborne reconnaissance cameras with high resolution. The Golden Eye Film Scanner concept was originally developed 20 years ago and is now used for various applications from defence surveillance and reconnaissance to restoration of film for the motion picture industry.

The Golden Eye Reconnaissance is designed to meet the requirements of high speed, high resolution and high image quality. The unique film transportation, using capstan drive and optical registration, is optimal for 5" (127 mm) Aerial film that normally comes without perforations.

Changes in image size on the same film role, as a result of varying camera operations, are automatically detected by the Golden Eye Reconnaissance film scanner. The extensive built-in functions for calibration enable accurate position information from the film.

Time efficient digitizing process for scanning, no manual analysis needed

Easy to use and quick film loading

Handles film with or without perforations

Image registration and synchronization performed by software

Built in OCR function to read annotations on the film

LED light source

HDR - High Dynamic Range for optimal dynamic range

Technical Specifications

Applications

Aerial film scanning

Sensor

12K/16K monochrome sensor
pixel size 5x5 µm
Bit depth: 12 bits

Speeds

Overview speed up to 500 mm/s
Winding speed up to 4 m/s
Recording speed up to 100 mm/s

Film Types

B/W Print and Negative

Mechanics

Golden Eye base platform
Maximum Reel size 1000 feet
Gentle film transport with continuous movement
Full-support gate
Scanner dimensions (mm):
~ 1000 x 800 x 400
Weight: ~ 100 kg

Optical Registration

Image registration and synchronization performed in software

Available Film Formats

5 inches (127 mm)

Light Source

LED light source with optimized blue diodes for monochrome film

Acquisitions

Windowed acquisition
Flip and mirroring

Dynamic Range

Automatic exposure control
Film base correction
Dmin and Dmax calibration
Multiple film bases
Additional tools: Histogram and Wave form diagram
HDR function for increased dynamic range

Supported File Formats

Multiple Tiff
Multiple JPEG 2000(optional)

Power

120/240 VAC, 50/60 Hz

Other Options

Project management
File recorder / Converter
OCR decoder