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THE NEW GUARDIAN

A flexible design
For Microfilm or Digital
capture

Icam Archive Systems Ltd.

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THE GUARDIAN



Icam's long experience of providing specialist book handling cameras, both microfilm and digital, installed throughout the world, has led to the development of the new GUARDIAN camera base. The GUARDIAN is designed to meet the complex book handling requirements of the modern archive in the simplest possible way.

The **modular** GUARDIAN can be purchased in several formats including microfilm, digital, flat platform and full pneumatic book handling. A basic unit can easily be upgraded at a later date. A dual microfilm / digital head is available. The camera column is motorised and is angled so that all documents can be aligned along the leading edge of the camera bed for operator comfort. High frequency cold fluorescent lighting is fitted with shutters to protect delicate documents. A full range of book cradles are available. A book shuttle is fitted as standard. The design brief was to use only generally available parts so that this camera can be installed in remote areas of the world. The simplicity of the design means that no high tech skills are needed by service agents. The sophistication of the design ensures first class operator ergonomics while maintaining and improving the book handling facilities.

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BOOK HANDLING



Our design team have created a book handling system with all of the sophisticated pneumatic control of pressure and speed to handle brittle volumes, but with none of the electronic circuitry previously employed. The modular design means that the unit can be supplied as a simple base and can be easily upgraded with book handling facilities if required.

The top glass has a flat profile on the underside, so that larger volumes or scrolls can be captured without pressure damage. Switches allow the operator to permanently open the top glass or lower the platen. The standard book shuttle enables the single pages of large volumes to be captured with ease. Book cradles from A4-A1 as well as special 90° and 120° units for books which cannot be fully opened are available for use above and below glass. A flat mapping cradle is also easily fitted to facilitate the capture of maps or newspapers under glass. An optional oversize copyboard allows for large format originals

LIGHTING

The high frequency cold fluorescent lighting system used on the **GUARDIAN** has been designed to be applicable for both digital and micro-film capture.

The light arms are adjustable to allow for the illumination of deep book valleys. Built in shutters to protect delicate documents between captures, while maintaining stable light conditions, are fitted as standard. The flicker free diffused lights are operator friendly for long filming tasks.

Also available are UV fluorescent light assemblies for the capture of 'hidden' information from manuscripts when used in association with the digital camera units.



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Digital Cameras.

Icam supply the Phase One range of digital cameras. Models are available from a capture speed of one frame every 1.5 seconds to a resolution of 10,500 x 12,600 pixels. Maximum uninterpolated file sizes are from 18 to 380 MB. Speed ratings (ISO) are from 50 to 1600. A 48 bit internal data path coupled with 14 bit A/D converter gives perfect colour fidelity. Software supplied includes calibration and capture. Multiple platform (Windows 95/98/NT and MAC) operating system is standard. Zeiss optics with interchangeable lenses ensure the optimum capture of the widest range of material, from large maps, to small photographic negatives. The digital camera unit is easily removable for use with a tripod to capture an even wider range of subjects! A dual (microfilm and digital) tandem head is available.



Microfilm 16 or 35mm

Compact 35 or 16mm microfilm head. Simple operation with finder light, adjustable shutter speed, frame spacing and masking. The 35mm model includes a 70mm lens with adjustable aperture to control depth of focus for uneven documents. Various column heights are available to suit maximum original size. The head can be rotated through 360° as can the book cradle to ensure correct lighting and alignment of originals, whatever the format of the document or book filmed.



Microfilm 16/35mm

This unit can accept either 16 or 35mm film. Microprocessor control of all functions including shutter speed, frame spacing and leader/trailer length. Indicators are used for film remaining, end of film alarm, and incorrect loading. A 70mm variable aperture lens is used with a 'through the lens' video camera and monitor to ensure perfect document alignment. 360° rotation and interchangeable masking is featured.

Standard Specifications - Microfilm

- Reduction: 7.5X to 21X
- Maximum document size: 920 x 660 mm.
- Book Cradle, 360° rotation
- Book Shuttle travel: 560 mm
- Table clearance with Book Cradle: 125 mm.
- Table clearance without Book Cradle: 245 mm.
- Head: 70mm lens, 360° rotation, finder alignment

Dimensions -

Maximum Height	- 2400 mm.
Width (light arms lowered)	- 1760 mm.
Width (light arms raised)	- 1350 mm.
Depth	- 1350 mm.
Weight	- 310 Kg
Electrical	- 220 / 240 Volt 50HZ 5A

Additional Specifications—Digital

- Resolution : 2K X 3K / 3.5K X 3.5K (Pixels) 7K X 7K / 10.5K X 12.6K
- File size: (8 bit RGB) 48—380MB TIFF
- Capture Speed- Single Exposure : 1.5 sec
Scan: 40 -240MB / min.
- ISO 50 - 1600
- Lens - Zeiss 80mm
(Various options inc. macro)
- Interface—SCSI
IEEE1394
- Windows 95/98/NT & MAC
- Capture /calibration software included
- Macro capture to larger than AO

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