



THE VERSATILE GUARDIAN

The MODULAR DESIGN, built around A1 or AO platforms makes the GUARDIAN the most flexible capture system.

Designed to be operator friendly and economically upgradeable, options include cameras, scanners and dual digital or hybrid heads with digital AND microfilm capture in the same operation. Our design team have created a safe book handling system with sophisticated pneumatic control of exact pressure and speed, to handle delicate or brittle books and bound volumes, with none of the complex computer or electronic circuitry normally employed. This ensures a 'fail safe' system for the operator and document. The modular design means that the **Icam GUARDIAN** system may be originally supplied as a simple base unit, easily upgraded with bespoke pneumatic book handling facilities at a later date. Column height and lens can be specified to cover a very wide range of document sizes. The dual height copy-board allows the capture of very large format documents (> A0).

Icam supply **DSLR**, shutterless **Electronic**, **Phase One** and **Better Light** ranges of class leading digital cameras and scanners. Easily mounted to the **GUARDIAN** base, models are available from a capture speed of one image in less than 2 seconds, to an optical resolution of 13,800 x 10,200 pixels (20,072 x 14,936 in enhanced model!) for high resolution capture of large maps. Adjustable daylight balanced and diffused constant lighting, at a relatively low level (especially the 'one shot' systems) ensures comfort for the operator and safety for the document with no flickering or moving lights in the production environment. Lens options including zoom and macro, ensure the largest possible documents (or even small negatives) are perfectly captured at the highest image quality.

A **35mm Microfilm** option is available with through the lens video monitoring and 90/180 degree head rotation. **Hybrid** (Microfilm + Digital) and **Tandem** (Dual Digital) options allow **dual capture** in the same operation

Icam's policy of continuous support and operator training is part of our promise to customer care. Extended warranties, service contracts and competitive part exchange upgrades are part of **Icam's** complete service and customer commitment.



Icam Archive Systems Ltd.

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MODULAR DESIGN

WALL MOUNTED COLUMN OPTION

35mm MICROFILM CAMERA

A RANGE OF DIGITAL CAMERAS

DUAL HEAD MOUNTED OPTION

UP TO A0 MAPPING PLATFORM

FLAT DOCUMENT CAPTURE BASE

IN/OUT LOADING SHUTTLE

PNEUMATIC BOOK HANDLING SYSTEM
WITH MANUAL BOOK SHUTTLE

PNEUMATIC BOOK HANDLING SYSTEM
WITH INTEGRATED AIR SHUTTLE

Camera Specifications—Digital

- Resolution (optical pixels): 7.2K x 5.4K; 9K x 6.7K ; 10K x 7.1K; 10.3K x 7.7K; 11.6K x 8.7K (array). Up to 20,072K x 14,836K (scan) 24bit or 48bit RGB output
- Max File size: (24 bit RGB) 90 to 852 MB TIF
- Capture Speed: Single Exposure : < 2 sec.
Scan: up to 240Mb / min.
- ISO: 35 - 3200
- Lens: 45—55— 80 —120—150 mm
(options inc. zoom & macro)
- Interface: IEEE1394a/b or USB2 / USB3
- Windows WIN 7 / 10 & MAC
- Capture / calibration / image management software included
- Output TIFF, JPEG, greyscale etc.
- Macro capture to larger than A0
- Book Cradle: 360° rotation
- Book Shuttle travel: 560 mm
- Table clearance with Book Cradle: 125 mm
- Clearance without Book Cradle: 225 mm

Options

- Special size book cradles
- Automatic Air Shuttle
- Dual height (30X) copy-board
- Hybrid: microfilm & digital head
- Tandem: dual digital heads
- Computer system and monitors

General Specifications - A1 / A0

Dimensions

	A1	A0
Maximum Height	2400 mm.	2800 mm.
Width (light arms lowered)	1760 mm.	1990 mm.
Width (light arms raised)	1220 mm.	1350 mm.
Depth	1350 mm.	1880 mm.
Weight	310 Kg.	360 Kg.
Maximum document size:	930 x 665 mm.	1200 x 850mm.

Lighting

Low energy daylight balance HF
Fluorescent with diffusers. LED

Electrical

220/240 V 50 Hz 5A
option 110V 60 Hz 5/10A

Additional features - Microfilm

- 35/16mm camera head with 70mm lens
- 180° head rotation
- Through -The- Lens video alignment with monitor
- Automatic & Manual Lighting control
- Variable frame spacing, 'leader' & 'trailer'
- Adjustable masking in portrait and landscape mode
- 7x—24x reduction (30x with low table)
- Frame counter and end of film warning
- Optional Enumerator System

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