

PRODUCT INFORMATION

SMA Hybrid



**Color Scanning & Microfilming
for Books & Documents
up to A0**

SMA Hybrid

SCANNING DEVICE

State of the Art Scanning Technology

SMA Hybrid Systems are multifunctional color scan and film systems. When special requirements of scanning become necessary, these systems exhaust their capacity. You would like to scan books or old documents? You have pictures, bound masters, drawings or material to be archived or copied? These scanning systems were developed especially for operation from highest requirements for careful treatment of valuable masters. Even precious material, e.g. documents of sensitive material, can be scanned absolutely safe.

With a standard resolution of 400 dpi (600 dpi optional available) and an internal color depth of 36 bit (external 24 bit) an A1 scan takes less than 10 seconds. Upon a finger tip it is equally possible to produce grey scale and B/W images.

Fragile Documents

A glass cover enables rippled or damaged or particularly valuable documents to be fixed plane and scanned without physical contact. A vacuum plate is optional available.

Book Cradle

The book cradle, which is included as a standard feature, treats the spine of the opened book with care. Two separate locating seats react sensitively upon the hold-down of the master and automatically adjust their height. For extremely sensitive books, which in no case may be fully opened, we developed the special book-holder the opening angle of which can be variably adjusted.

Hybrid Technology

Our special hybrid systems combine both worlds of technology in digital and analogous way for the economic solution of archiving. Thus, at the same time information can be stored on microfilm. With 1 unit we can realize an efficient archiving system that even meets highest requirements from critical applications. Digitalized data can be further processed and stored at once. At the same time, the microfilming makes the safest long-time archiving for hundreds of years. The economical and absolutely reliable alternative of archiving!

TECHNICAL SPECIFICATIONS

Optical Resolution

400 dpi standard

600 dpi optional available

Scan Speed

A1: 400 dpi color - 8 seconds !!!

A0: 400 dpi color - 16 seconds !!!

Maximum Scan Area

SMA 11 H
SMA 10 H

914 x 600 mm
1300 x 914 mm

Oversize on request.

Book Cradle

For books up to 250 mm thickness and 25 kg weight, Optimal for books up to 350 mm and up to 35 kg weight, for even bigger books on request

Interface

Network Card, TCP/IP Protocol

Scan Software

Our scan software *ProView* is a simple, intuitive user interface with icon buttons for most scan and imaging functions. Some of the available features are:

- 24 bit RGB, 16 color palette, 256 level grey scale, B/W
- single image or batch file scanning
- utilities for scanner calibration
- real time zoom while scanning
- thumbnail view of entire image
- auto indexing
- multiple industry standard file formats
- various filters / noise removal / curve editor / tone reduction
- gamma correction, contrast, white point adjustment
- cropping, deskewing, image rotation

SMA Hybrid

MICROFILMING DEVICE

MICROFILM - The Archiving Media of the Present, Past and Future!

For archiving documents and library material which is subject to long term retention periods, microfilm is the only sensible media to be chosen - despite the tremendous development of digital storage media. Currently there is no digital storage medium available that could nearly reach the durability of microfilm. By utilizing the proven archive media microfilm it is in addition made sure that you will remain unaffected by constant soft- and hardware changes. This is a very serious issue when long-term archive information has to be accessed.

Microfilm is Modern

We know - microfilm sounds old fashion. But as a matter of fact microfilm can be digitized at any point in time. It therefore bridges the gap between the analog and the digital world in the best possible way.

Available Options

- Image Field Projection
- Automatic Exposure Control
- Variable film steps
- 1, - 2 & 3 Level Blip
- Digital Counter
- Special factor up to 42 x
- Attachment for 16 mm Microfilm
- Light Table for Transparent Originals
- Motorized Book Cradle, for book thickness up to 350 mm and 30 kg weight
- 105 degrees Book Cradle
- Regulatable Book Cradle speed adjustment
- Color Film attachment

TECHNICAL SPECIFICATIONS

Film	35 mm x 30 m roll film 16 mm x 30 m roll film (option)
Illumination	Top light 4 x 200 W
Camera Head	Up to 360 degrees rotatable
Height Adjustment	Motorized, pre selection 7.4 - 10.5 - 14.8 - 21 - 29.7 - 32x, other sequences on request
Image Field Projection	Alignment precisely indicates the film area (option)
Color Filming	Optional color attachment, easy switching between black and white
Lens	Zeiss S-Biogon f = 40 mm
Shutter Speed	3/4 sec. fixed, variable for color filming
Control Panel	Ergonomical and operator friendly
Counter	Digital (option)
Variable film steps	1/1, 1/2 1/4 steps
Reduction range	Infinitely variable, 7,4 - 32 x
Blip	Fade in of 1, - 2 & 3 level blip (option)
Exposure Measuring	Via photo cell with needle adjustment
Book Cradle	Motorized, for books up to 25 cm thickness, larger book cradles and special book cradle for fragile books optional available
Maximum Filming Area	SMA 11 H: 660 x 930 mm SMA 10 H: 950 x 1300 mm
Foot Pedal	For filming, scanning and book cradle function