

DL-MINI Series

Robotic Book Scanners



The DL-Mini series of robotic and manual book scanners allow books to be scanned from cover to cover and with minimal operator intervention once the book is properly position on the self-adjusting built-in book cradles. There are three versions within the DL-Mini series. The sophisticated and clever design protects fragile books, without damaging bindings and can handle challenging small books that tend to close spontaneously.

Almost all types of documents can be manually scanned in the DL-Mini. Certain models with a single capture system can deliver a single image of A2+ document while the model with two camera capture system will deliver two page image from books that are placed on the cradle. Unusual documents like photo albums, stamp albums, spiral notebooks, postcards, manuscripts etc. can be easily scanned in the DL-Mini.

The technology incorporated allows the DI-Mini to detect double page pickup, and then automatically makes the system retry the pickup process ensuring eventual pickup of a single page without operator intervention. Throughput between 1300 pages to 1500 per hour can be reached. It has an auto-centering book cradle that ensures that books are placed without pressure on the bindings allowing the pages for optimal image exposure down to the book gutter. Book size is automatically detected that allows optimal scanning of the largest variety of materials.

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DL-MINI Series

Robotic Book Scanners

Models	Capture Technology	Image Matrix	Maximum True Optical Resolution (DPI)
E-400	i2S Eagle	71 Megapixel	400 on 11" x 17"
E-600	i2S Extra	156 Megapixel	600 on 11" x 17"

Features

- 24 Bits/pixel
- Image Color-16 million
- Lifetime reliability suitable for 24/7 operation
- Automatic detection and adaptation to parameters of the book
- Flexible algorithm finds the best way to separate pages
- Ensures one page turn at a time, no missing pages
- Handles pages and bindings gently
- Suitable for new, old and very fragile books
- Saves parameters of books as presets for faster set-up and operation
- Higher quality images as pages are presented under a glass plate
- Accepts books with any paper thickness, texture and porosity
- Requires minimal operator intervention

Book and Document Parameters

Document types:	books, magazines, bound newspapers, single sheets
Book weight	maximum 10 kg (22 lbs.)
Book thickness	maximum 100 mm (4 inches)
Book covers	soft and rigid
Page Size	minimum: 4.13" x 5.83" maximum: 11.69" x 16.54"
Scanning surface	23.6" x 16.54"
Paper weight	minimum 20 g/m ² maximum: 200 g/m ²
Wavy pages or covers	maximum amplitude 10mm (.4")
Opening angle of pages	180° - allows full visibility of text closest to the binding
Behavior of books	books that remain open or close spontaneously

Process

Book centering	automatic by book cradle
Book holding	by distributed vacuum plates
Page pickup	by distributed vacuum arm
Page flattening	none, contact, pressed under glass
Automatic detection	page width, multi-feed
Safety measures	checking page pickup and release, page bending
Automatic re-try	in case of multi-feed or missed page pick up

Maximum Productivity

3 speed settings are available to allow proper manipulation of the document depending on its fragility
 Maximum productivity attained for books that are in good condition

Dimensions and Specifications

Electrical	120 – 240 volts, 50/60 Hz. 2.2 kVA
Physical Size	5.91' x 3.94' x 6.56' (feet) Height of book holder 3.28' (feet)

Specifications subject to change without notice

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