

QIDENUS TECHNOLOGIES GMBH

Modecenterstrasse 22
A-1030 Vienna
Phone: +43 1 2362 433
Fax: +43 1 2362 433 1000
Email: digitise@qidenus.com

preserving the past for the future



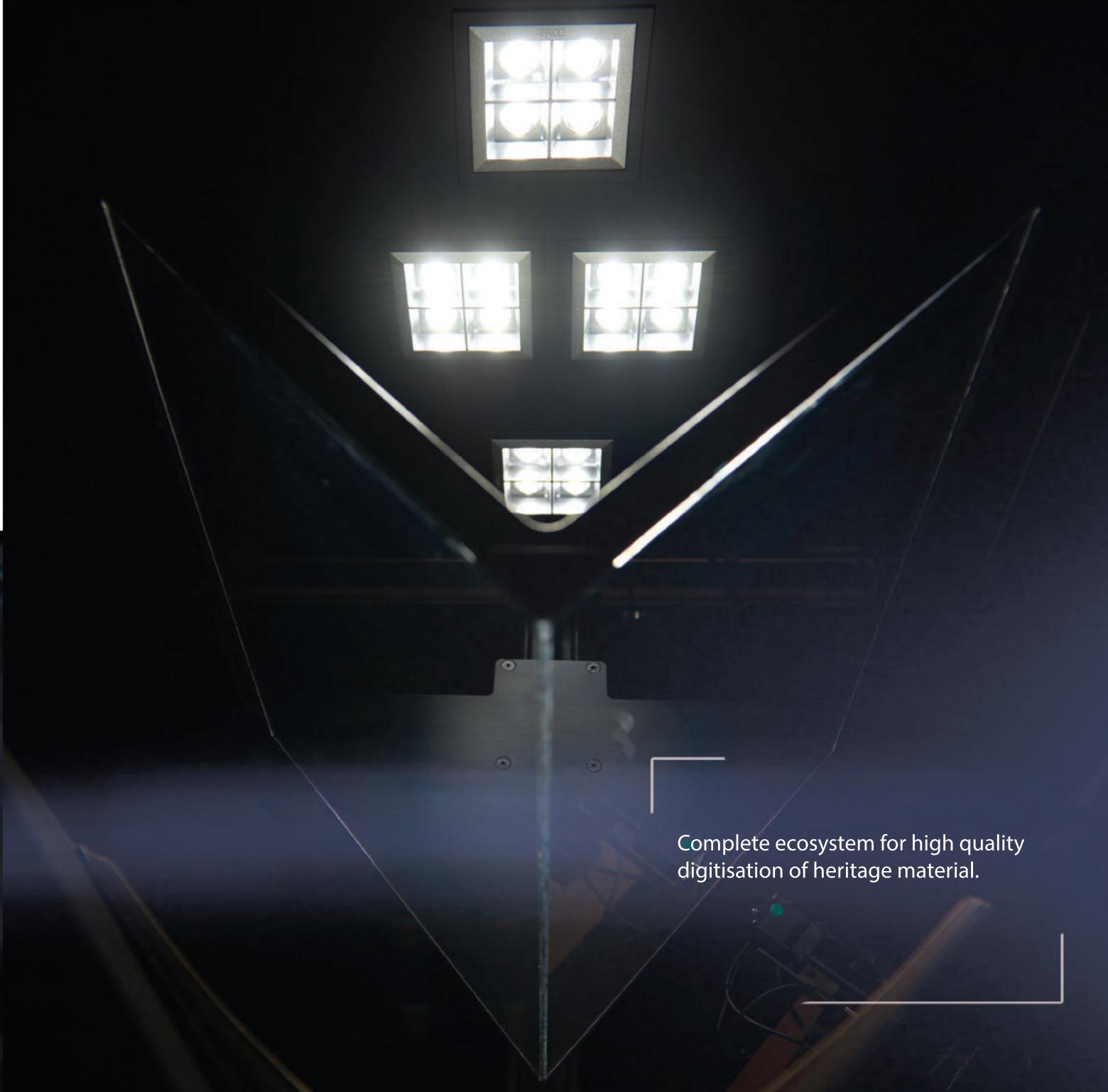
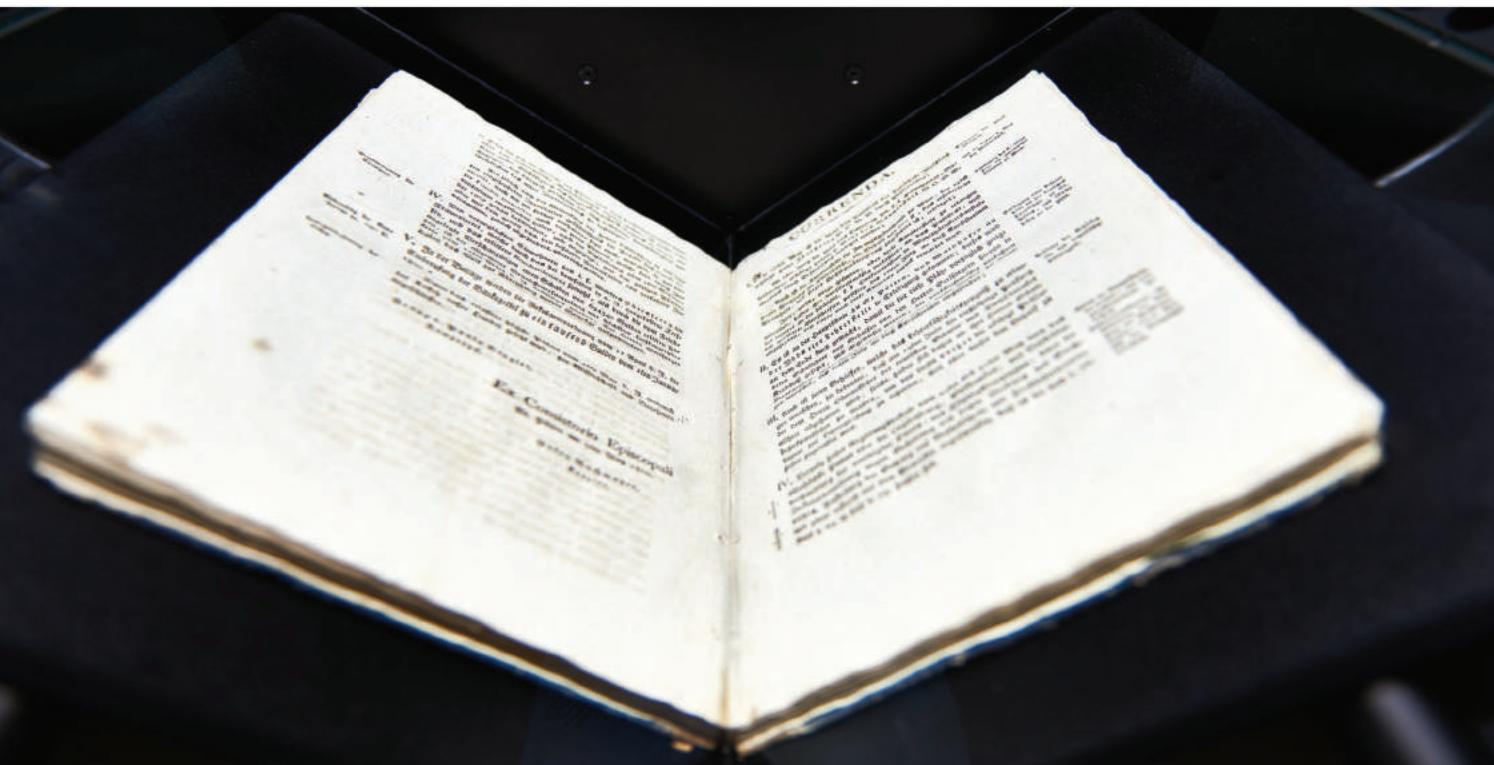
About Us

Qidenus Technologies was founded in 2004 as a spin-off from the Vienna University of Economics and Business. Soon after its inception Sofie managed to form a young and powerful team consisting of internal specialists in the fields of manufacturing, product development, product design, marketing and sales.

Besides that, it has always been a task of highest priority to establishing strong and long-lasting partnerships with international distributors as well as manufacturing cooperators.

Today Qidenus Technologies looks back at more than 10 years of experience in development and manufacturing, which resulted in global patents that include the unique and fully automatic page turning system.

As a direct consequence of the accumulated knowledge and constant innovation, Qidenus introduced the 4th generation of its three product lines – ROBOTIC, MASTERED and SMART – which were specially designed to cover the entire spectrum of book digitisation.





MASTERED
Book Scan

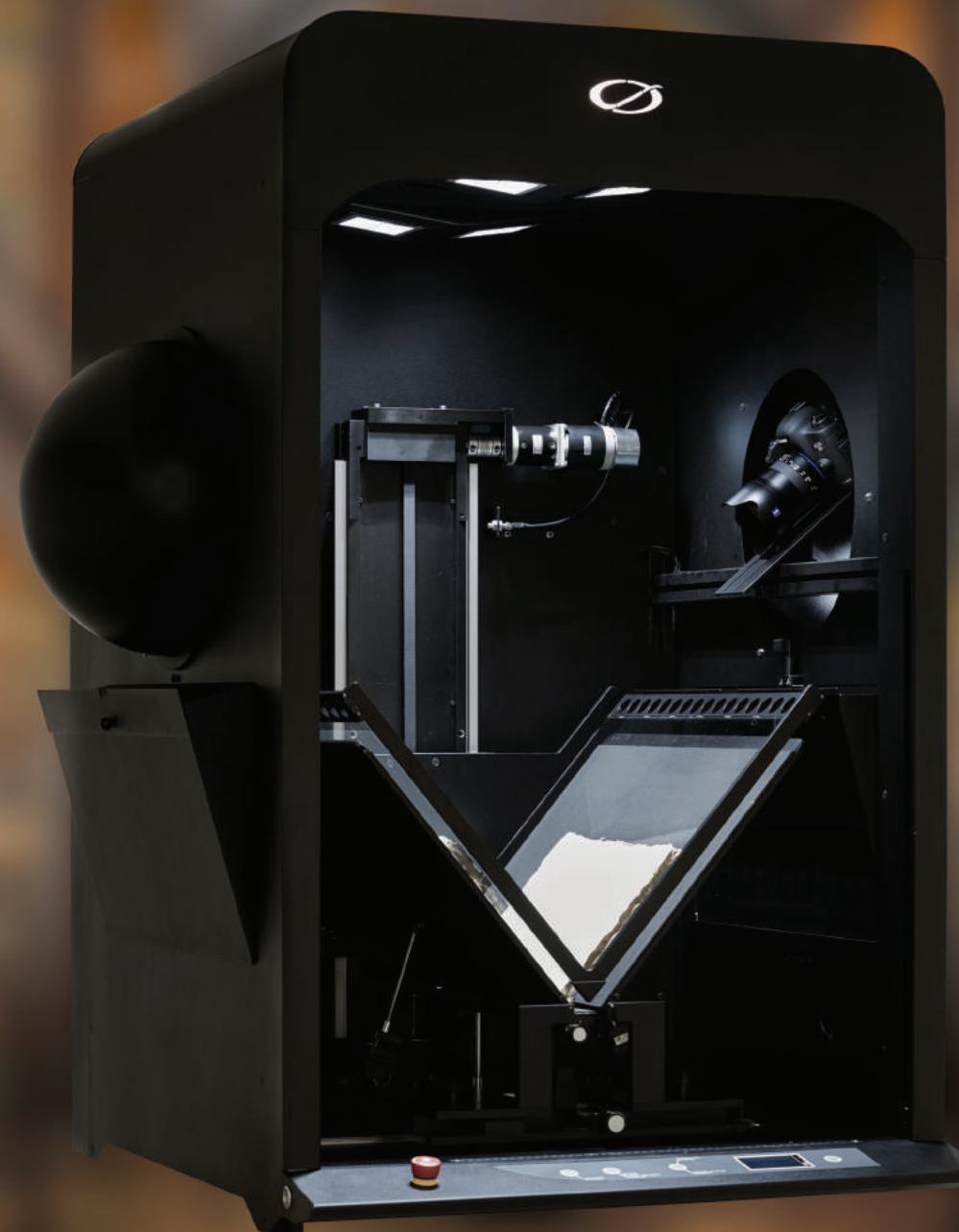
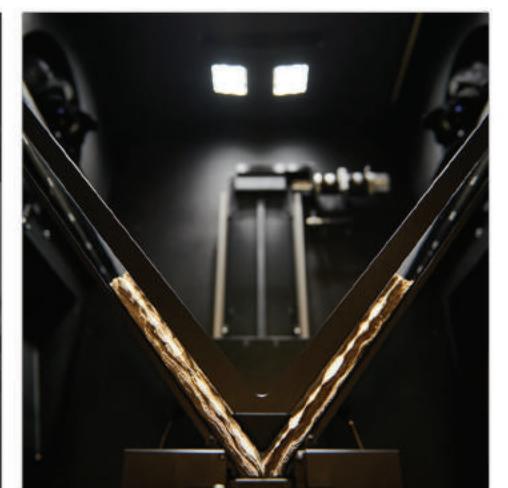
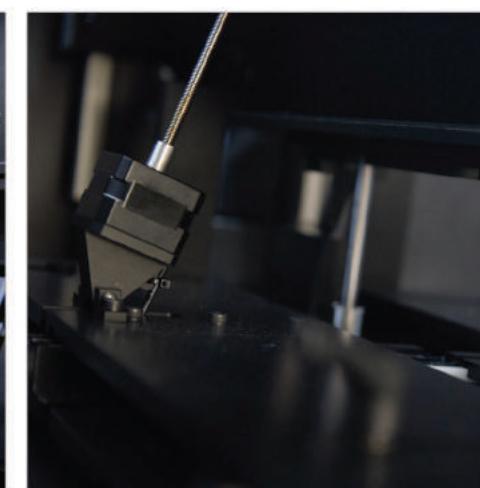
MASTERED Book Scan

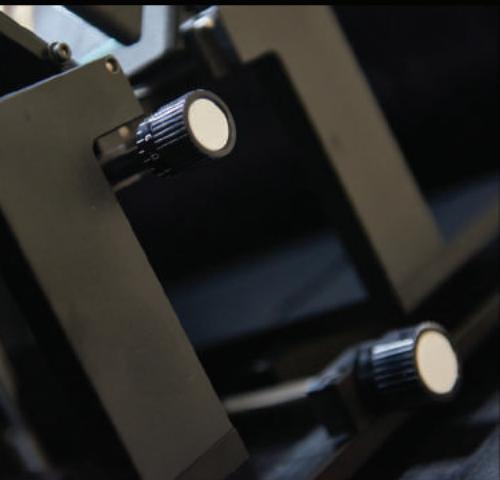
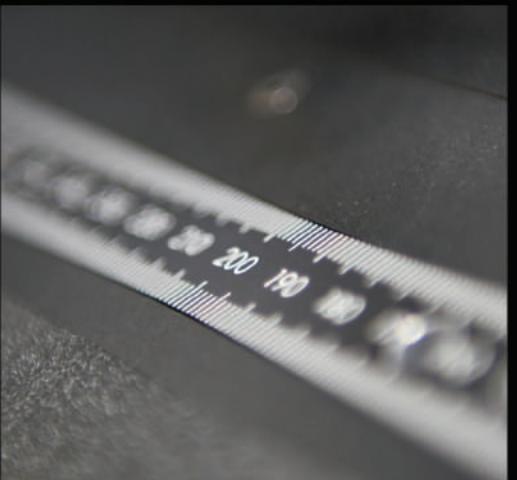
In digitization, quality and speed are of paramount importance, since entire libraries need to be preserved for posterity making time of the essence in such endeavors. There is no system that combines those aspects better than the MASTERED book scanner.

Being a semi-automatic scanning system, the scanner utilizes three engines to operate the system automatically. Its book cradle is completely adjustable, ensuring protective handling of the books. The scanner moves its V-shaped glass plate while two engines adjust the side flaps of the cradle to perfectly fit the glass. Synchronously, CMOS sensors scan the area with high resolution in an instant. All that is left to do for the operator is to turn the page!

These processes are geared to maximise output with the highest possible quality. All the while, light grids continuously monitor the edges of the scanning area, halting the system if anything should enter during the scanning process. This allows for complete safety both for the operator and the scanner. Its versatility is unparalleled in the market. By the push of the button it switches from the semi-automatic to manual mode, allowing for the careful digitisation of fragile books.

And yet what truly distinguishes the MASTERED from other devices is its upgradability. Its camera system and IT system can be upgraded, allowing even for the oldest scanners to be always at the frontier of imaging quality.





GLASS-PLATE

The system has an integrated motorised glass-plate which guarantees a curvature free image. With its gentle 80° opening angle, even the most disintegrated books can be scanned without harming the binding. The 3mm thin, double coated glass, ensures a crisp image with no distortions.

CAPTURING SYSTEM

Depending of its configuration, the Mastered unit is available with various capturing systems. Full-frame cameras from leading brands like Canon, Nikon, Raytrix are equipped with the best suiting versions of professional line lenses: Carl Zeiss, Canon, Sigma and Nikon. The system can be upgraded in time.

IMAGE QUALITY

Having a high resolution digital copy is the purpose of any digitisation project. The highest industry standards are FADGI and METAMORFOZE and Mastered is compliant with both.

AREA SCAN

The Mastered unit is the most versatile product in the Qidenus portfolio. It offers the widest range of scan area size and resolution output. Starting from A3+ and going up to A1 surface, with a resolution output between 300 to 600dpi, it is a match for 90% of the digitisation projects for bound material.

OPERATING MODE

Automatisation is the future and we have been part of it since the very beginning. The Mastered unit combines the ability of man and machine to offer the best use case. Semi-automatic and manual mode are both incorporated in the system. By the press of a button, the system becomes the extra set of hands the operator needs.

BOOK CRADLE

The book cradle present is the most advanced. Side flaps covered with anti-slip mats, angle is self or manually adjustable with the use of 2 engines, the book spine has a separate support which is height adjustable. Accommodates materials with up to 16 cm thickness, and self-adjusts the position towards the glass-plate. Three dimensional adjustment at your disposal.

ROBOTIC

Book Scan



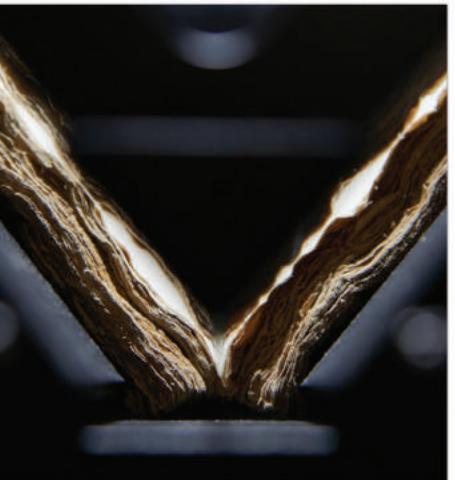
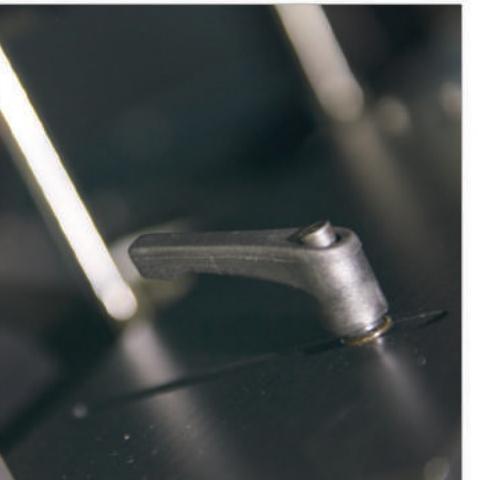
ROBOTIC Book Scanner

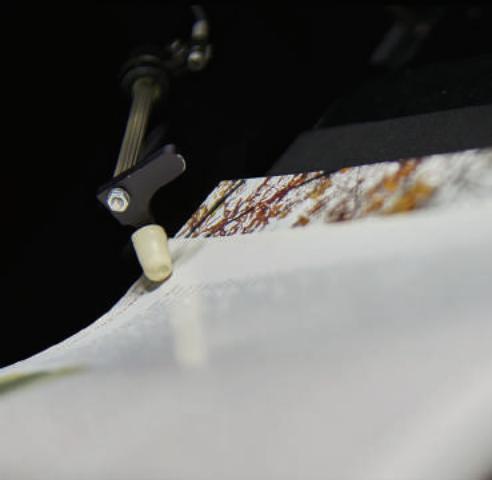
The noble goal of preserving our past for the future is arduous and time-consuming. A plethora of historic pages must be immortalised, lest time decays records of our history. Books as multifarious in form and condition as the cultural heritage they contain need to be archived. Any solution that would undertake such an extensive task would have to be flexible. Meet the ROBOTIC book scanner.

As its name suggests, the scanning is done fully automatically. Every aspect is accounted for. The entire scanning process from the turning of the pages all the way to the authentic replication of their content is performed by one machine. A bionic finger lifts one page carefully and turns it, while the double-page control ensures that only ever one page is turned at a time. The glass plate moves mechanically, and the CMOS sensors capture the images instantaneously, making this machine not only independent but also fast.

Yet with the mere pushing of a button, the scanner switches between a fully automatic to a semi-automatic and even a manual book scanner, incorporating all three stages of automation for a genuinely all-encompassing digitisation solution that can scan all types of books. A truly autonomous scanning solution.

The **robotic** archivist.





BIONIC FINGER

The bionic finger is a proprietary design of the Robotic unit. The mechanism mimics the natural movement of the human finger in the process of grabbing one page of the book. Delicate, precise, self adjusting to page characteristics.



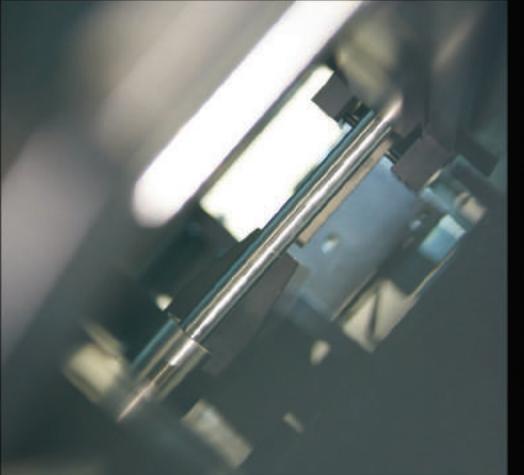
PAGE TURNER

The page turner has a double feature: turning the pages of the book while ensuring one page is turned it does this just one page at a time. The built-in light sensor will transmit the information accordingly and help the bionic finger adjust its parameters in order to turn one page at a time.



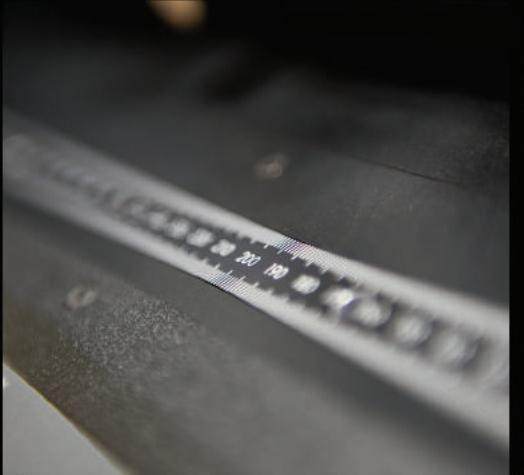
CAPTURING SYSTEM

The capturing system is shared along the portfolio. Raytrix, Canon, Nikon are all implemented in the system depending on the size of the scanning area and resolution needed. Industrial cameras are put to work to achieve the best results.



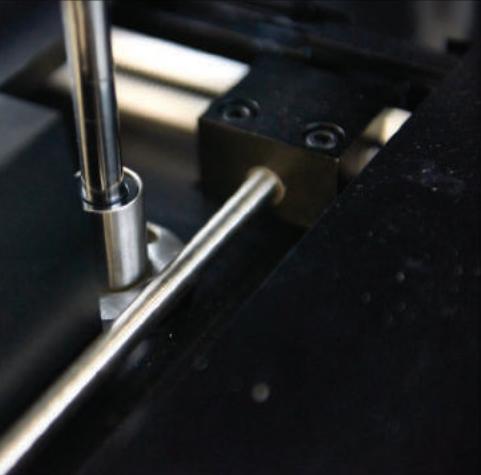
OPERATING MODE

For the cases requiring human touch, the system incorporates 3 operating modes. Toggle between the modes just by pressing a button. It's that easy to switch from full-automatic to manual or to semi-automatic and vice versa. An operating mode for each situation.



AREA SCAN

The Robotic unit is available in two sizes, with different scanning areas: A3+ and A2 total surface. Use the versatility of the full-automatic mechanism even in large format. Resolution output is between 300 and 600dpi. The Robotic unit is FADGI and METAMORFOZE standards compliant.

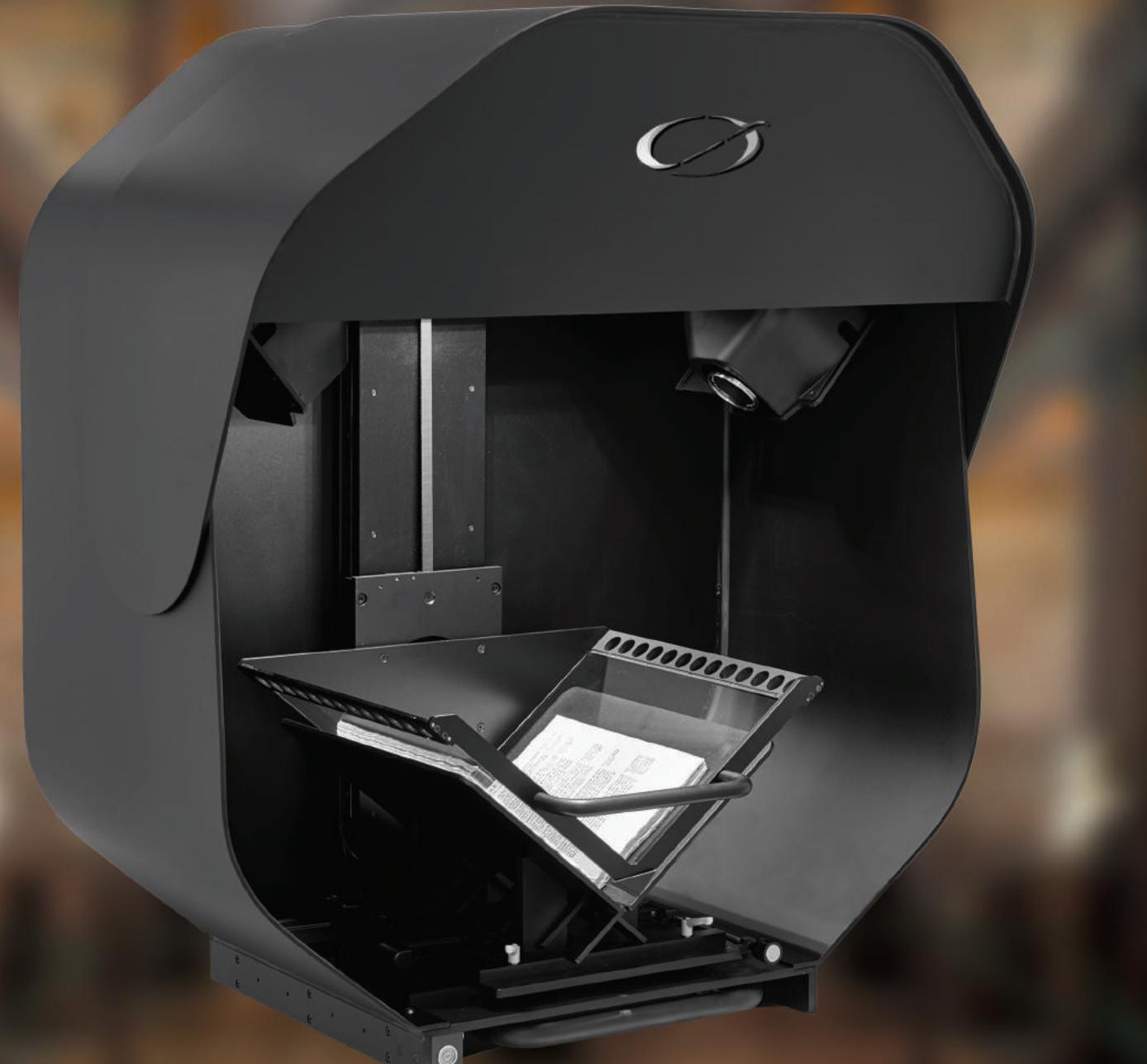


BOOK CRADLE

The book cradle is identical to the one used on the Mastered unit and it offers unrivaled adjustability. Adjust the system to the book, not the other way around. Best scanning conditions.



SMART
Book Scan



SMART Book Scanner

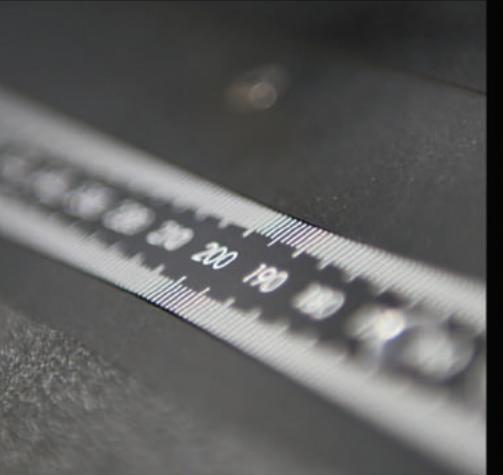
The most fragile often prove to be the most valuable, making their careful conservation a primary concern. Nothing could ever protect the material better than careful human supervision. Manual treatment is a prerequisite, which should be incorporated in the scanning process. Meet the SMART.

A manual book scanner designed with the idea of maximum preservation in mind. With its narrow opening angle, the cradle prevents the book binding from overextension. The adjustable side flaps provide vital support to the book spine. The glass plate slides seamlessly onto the book, covering it protectively. The specially designed cold lighting illuminates the material evenly while sophisticated CMOS sensors scan the area achieving Metamorfoze and FADGI standard image quality.

Every aspect of the scanning process from the treatment of the book to the quality of the images produced, has been purposefully engineered and combined into an outstanding book scanning station.

Be clever, choose SMART.





CAPTURING SYSTEM

Best cameras and lenses we have to offer are to be found on this system. The unit is configurable with a variety of cameras and lenses in order to achieve any project requirement for V-shape scanning. The Smart unit is FADGI and METAMORFOZE standards compliant.

BOOK CRADLE

The cradle present here has an opening angle of 100°. A slightly larger opening allows the large format material to settle in the cradle under the best conditions. Books up to 16cm thickness can be scanned. Smooth metal surface and a solid book spine support make the handling effortless.

GLASS-PLATE

The glass-plate is the exact one as in the Mastered and Robotic unit. Curvature free images even in large format. 3mm thin glass, double coated and hardened glass that ensures a long-life span.

AREA SCAN

The system is available in two area scan sizes: DIN A2 and A1. Designed for larger formats, but it has no issues in handling smaller material.

PORTABILITY

The scanner is a monument to stability: CNC aluminum, stainless steel, industrial bearings, sliding mechanisms and counterbalancing weights. Everything is tightened into place and can be located or re-located without any issue. Two handles are present on the front and back side of the unit.

OPERATING MODE

The SMART is a system designed for individual work: one operator, one book. The applicability of a manual system like this is limitless. From specialised preservation laboratories to service providers, it has always been a great choice. It represents the least invasive way of production scanning. The operator has total control of the handling, glass-plate position and speed.

SWAN

Document & Book Scan



SWAN Document and Book Scanner

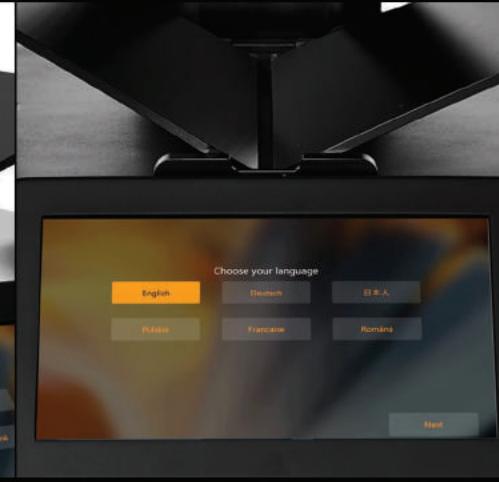
The most common source of grievance for anyone using scanners is its speed or the lack thereof. Especially with bound materials, the process of scanning them can not only be very time-consuming but may harm the material in the process.

The SWAN Scan is the solution!

With its CMOS sensors, it can scan two pages at once in less than a second! Because of the placement of the sensors above the document and its own LED lighting combined with the V-Shaped adjustable cradle, it can scan a single page documents just as easily as entire books! One only needs to place the document in the scanner and press a button.

It scans faster than you can turn the page! This is a fraction of the time it would take an ordinary scanner to scan a similar document. Additionally, because of the V-Shaped book cradle, it is no longer required to unbind bound materials, since all one needs to do is turn the page.



**CRADLE****FUNCTIONALITY****SCAN AREA****TOUCH SCREEN****CAPTURING SYSTEM****APPLICATION**

The cradle is cleverly designed and it allows the user to adjust it with great ease. The mounting parts of the flaps represent the angle adjustment. By lifting and pushing the flaps towards the back of the scanner, one creates the first setting. By doing the opposite, namely lifting and retracting the flaps towards the user, the second adjustment is set. Lifting and centering the flaps will result in a flat surface.

It does not get easier than this: out of the box solution, plug and play, ready to use, pre-installed software, no training needed.

The Swan scan is available in two variations: A3 and A2 size. All materials are scanned from above, freeing the entire area for material handling.

The easiest way to control a device nowadays is definitely a touch screen. The one mounted on the Swan is a high definition 10" display. To complete the package, the QiDrive Touch Software is here to walk you through the workflow.

Two options are available in terms of cameras: dual system Sony sensors or dual Raytrix 42 MPIX cameras leading to a resolution output of 300 to 600dpi.

Every size is a match for the cradle: invoice, ring folders, stapled and crumpled paper. A system to replace the conventional flatbed scanner and all its limitations. Excellent match for: office use, self service in public spaces, heritage material digitisation.

QiDrive Software Suite

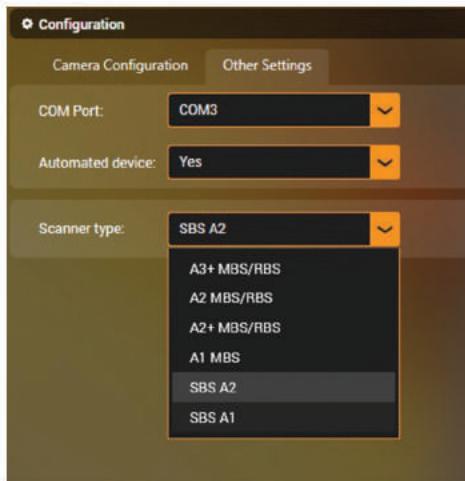
The QiDrive Software Suite is an extensive software package allowing the scanning, processing and quality controlling of books while at the same time managing different digitisation workflows.

The software is designed to speed up every part of the digitisation process – including functions for automated processing, data conversion and object character recognition.

The software works as a stand-alone version and can be integrated into any existing digitisation environment.

Highlights:

- Real time preview of images
- SQL Database
- Image processing algorithms
- Execution of image processing scripts
- Quality control center for scanned images/books
- Management of different batch processors
- Color management – ICC profiling



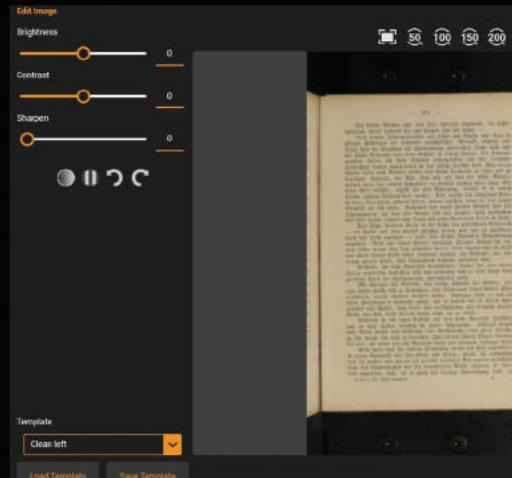
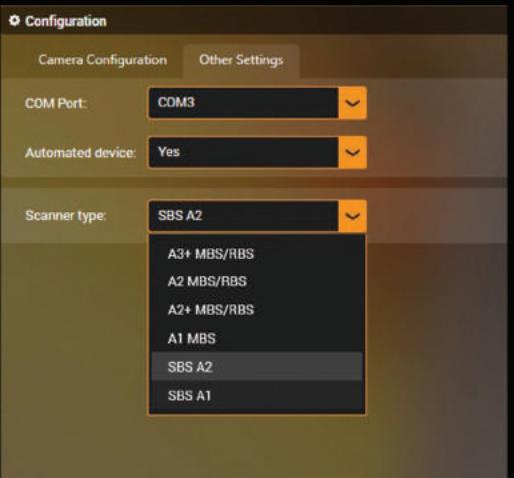
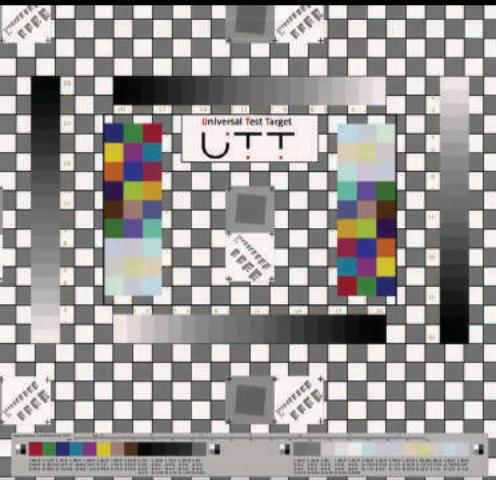


IMAGE QUALITY

The Universal Test Target is a single test target which is designed to provide insight into the complete image quality of all types of high end cameras. These targets are captured and analysed with special software to provide information on technical aspects such as OECF, MTF, noise and color accuracy for Metamorfoze and FADGI standard image quality.

COLOR

The art of color management is all about getting your colors to match from input to output. Eliminate the chance of any extreme white balance errors which cannot be corrected later in Image Processing. By utilising ICC profile, the colors in the scan are optimised to match the original document.

IMAGE FORMATS

A large variety of image formats is available within the software, allowing the user to save the files in the needed format for long time preservation.

COMPATIBILITY

QiDrive has implemented various camera models available on the market: Canon, Nikon, Raytrix. The software package is compatible with the entire Qidenus portfolio and can be used on earlier models as well.

PROCESSING

User friendly interface with intuitive buttons for a quick and effective image processing. Direct preview of the changes in the right panel for an efficient quality check of the results.

CALIBRATION

Identical left and right images - simultaneous camera calibration directly from the user interface. Live view function for sharpness calibration.