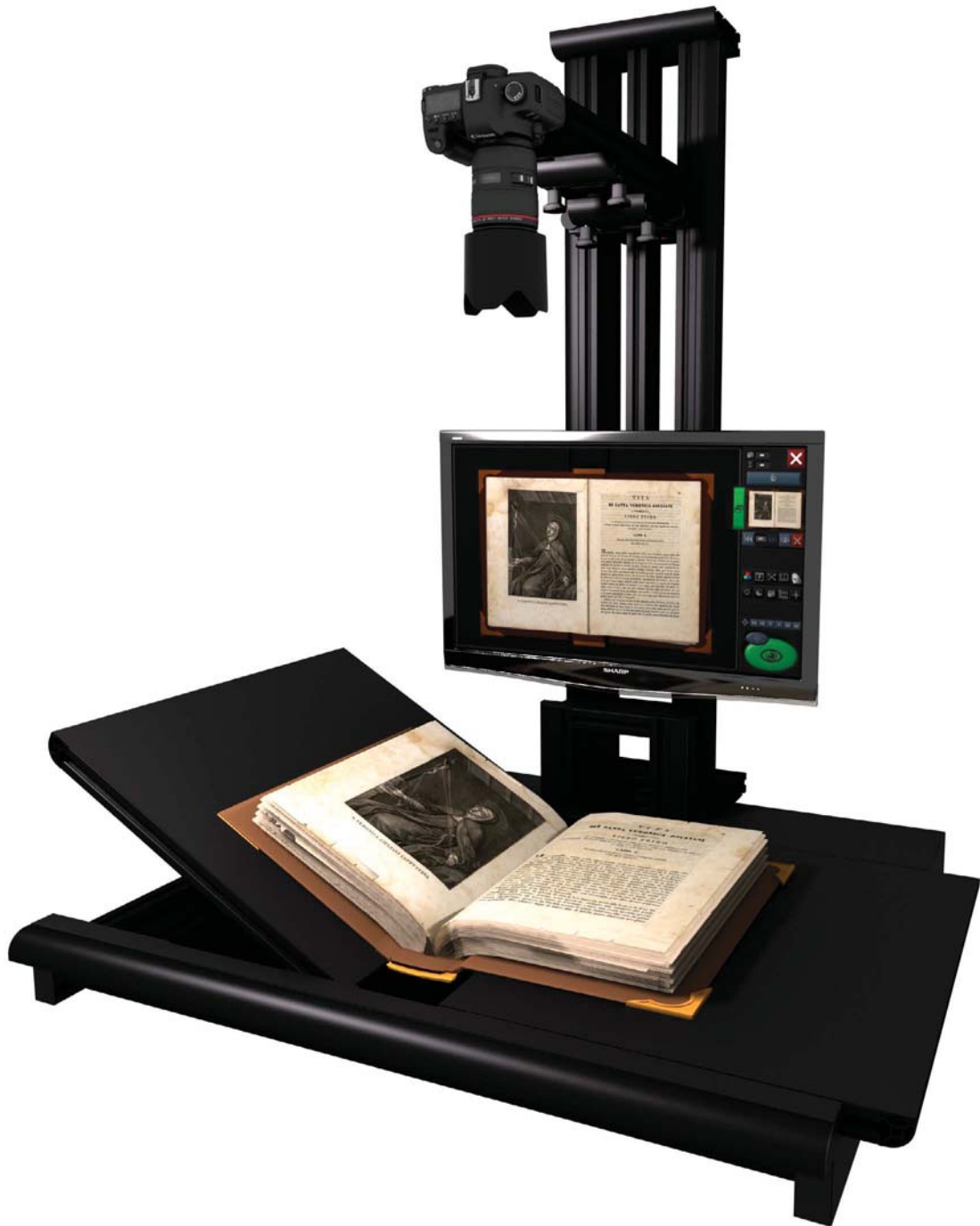


**METIS**

**EDS GAMMA**



*by Metis*

**Metis desktop professional scanner:  
great quality, fast and easy to use!**

# METIS

# EDS GAMMA

## The V-Table design

The EDS GAMMA integrates an innovative V-Table design supported by specific software tools in order to hold the originals in any possible position/angle. The V-table has been specifically designed by Metis in order to accept and gently hold different kind of originals in an optimal manner, even antique books with limited opening angle. The V-Table allows scanning large books, maps, drawings and many types of originals even larger than the A1 format and up to 15cm of thickness. Thanks to the METIS exclusive “shape recognition” and “curvature correction” technology, which is integrated into the EDS software, the document shape is detected in real time and the acquired image is deskewed in a fraction of second delivering a perfect result.

### Plates can be tilted independently



### Plates distance may also vary independently



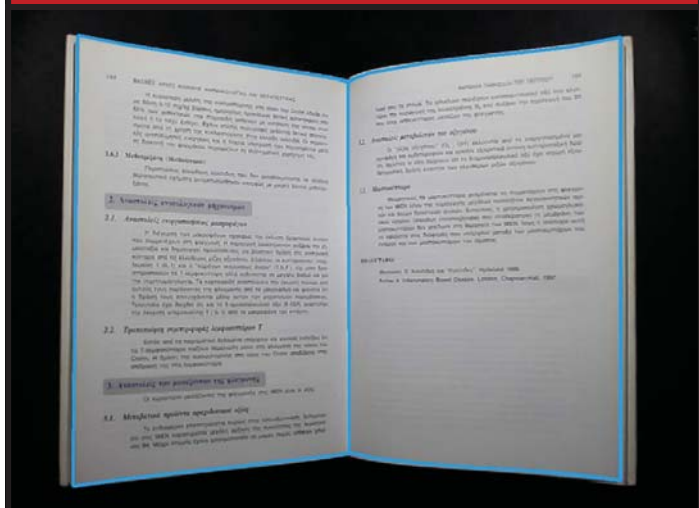
### Example 1



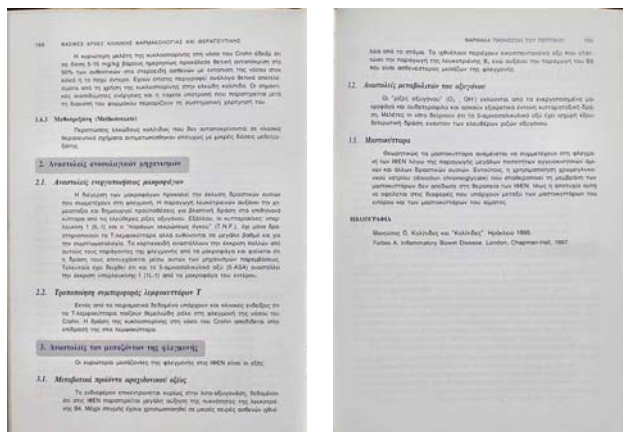
### Example 2



### Automatic shape recognition



### Automatic curvature correction

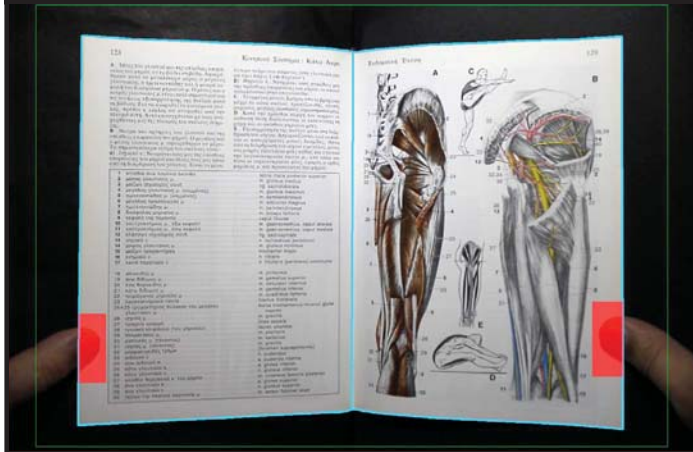


# State of the art technology !

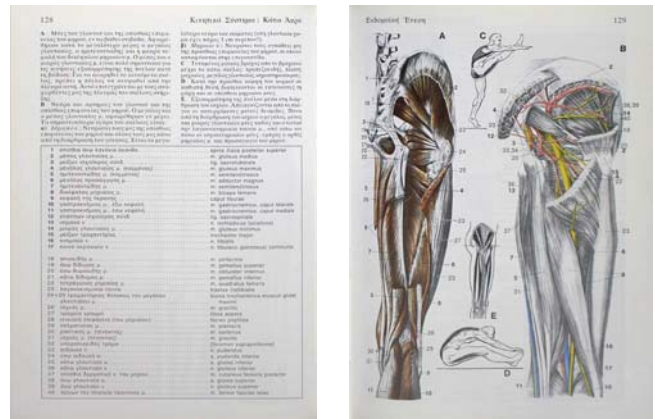
## Automatic finger recognition

The Metis EDS software is capable of recognizing the operator fingers (and remove them from the image). Furthermore the acquisition can be automatically triggered when the fingers are recognized.

### Automatic finger recognition



### Automatic finger removal



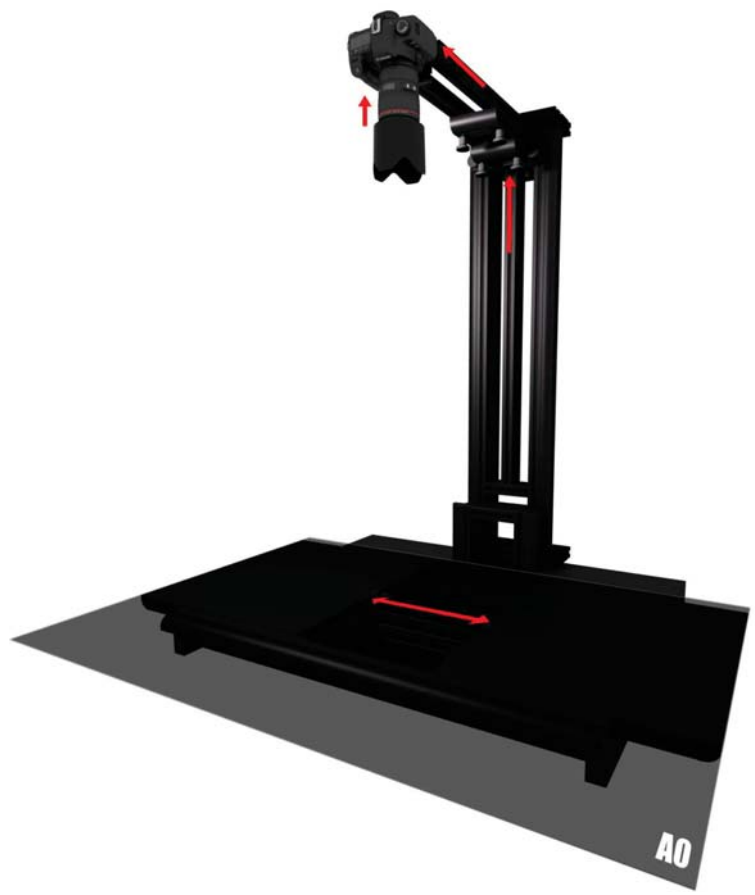
## Variable Scan Area and resolution

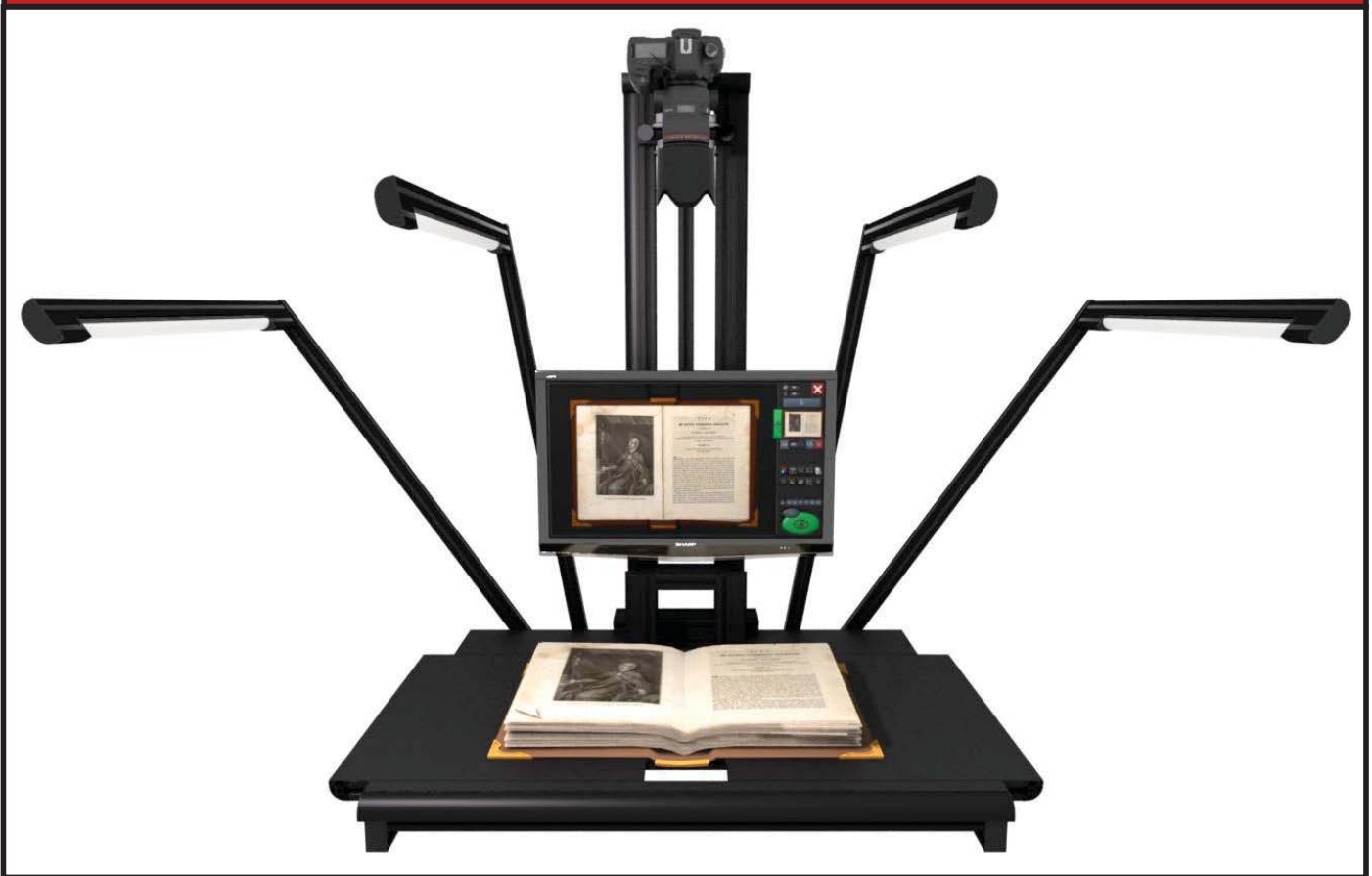
In the EDS GAMMA system is possible to customize the scan area size and optical resolution depending on the specific requirements. Final image resolution can further be adapted to specific needs. There are different ways of customizing the scan area size: by using of the zoom lens; by varying the digital camera height and by moving the digital camera toward the front of the system (in order to extend the scan area over the 90x60cm).

### Scan area may vary up to 90x60cm



### Scan area can also be extend over the A0 format



**EDS GAMMA system with the integrated EDS lighting (4 lamps) in a typical configuration****The EDS Lighting**

The EDS GAMMA integrates an innovative lighting system, designed by Metis, which deliver unique features. The main characteristics of the EDS lighting system are:

- Light color temperature is Warm White and provide very high color rendering index (CRI=93)
- It includes 4 lamps (LED array based) that can be positioned and tilted independently. This allows to optimize the light distribution over the scan area by maximizing uniformity and minimizing reflections. Furthermore the possibility to change the angle of the lamps also allows to optimize for particular type of originals.
- Every EDS lamp integrates 60 state of the art high power LEDs arranged in a single array (line).
- Every EDS lamp deliver a luminous flux of about 950 lumen; a total of 3800 lumen for 4 lamps.
- Luminous flux is equivalent to 4x120 watt traditional bulbs but power consumption is only 4x17 watt.
- Every EDS lamp have a 120 degree uniform output.
- Power supply, cables and electronic are directly integrated into the EDS GAMMA structure.
- 2 lamps can be connected to form a single light source.
- All lamps are directly controlled from the EDS software (the lamps can be switched ON/OFF independently); a specific USB link is provided in order to connect the EDS lighting with the PC.
- Thanks to the perfect integration of the EDS lighting with the EDS software, additional acquiring modes and features are also possible as:
  - to acquire a special 3D image of the original in which the 3-dimensional shape, the relief and fine texture is extrapolated. The 3D image can be used to provide additional information of the original or it can be mixed with the color image in order to deliver specific results (i.e. enhancing a specific structure or pattern in the original).
  - the light distribution can be fine tuned into the EDS Software and the single light sources can be regulated to specific lighting levels with real-time adjustments and simulation. This provide further control of the light distribution (distance and angle) but without having to move physically the lamps.

# State of the art technology!

## Independent lighting position/tilt

The EDS lighting includes 4 lamps that can be adjusted independently by the user (fixed in different positions and tilted). Customizing the light position/tilt allow to control the light distribution over the scan area and to optimize reflections and uniformity. This is very important because different originals may require different arrangements and optimization of the lighting for best results. Furthermore every lamp is controlled (switched On/Off) directly from the EDS Software and according to the selected working profile (i.e. book, map, etc.).

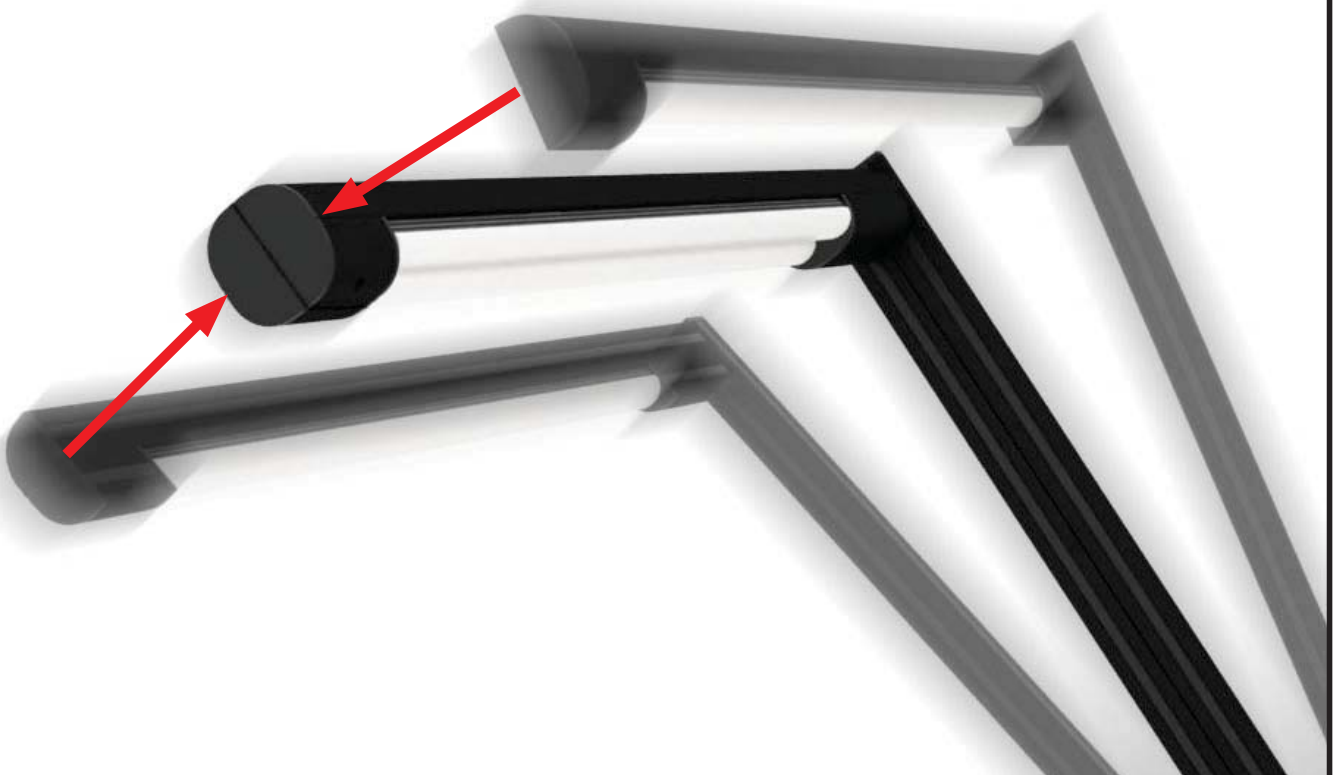
**Light from the Top can minimize shadows in the book gutter**



**Light direction from the sides may provide higher uniformity especially on large flat originals as maps or drawings**



**2 lamps can be linked in order to form a single and powerful light source**



The EDS GAMMA is an innovative A1 desktop planetary scanner and it's the latest addition to the METIS EDS family (Easy Digital Scanner). The EDS is a new line of professional scanners that has been created by Metis in order to overcome the usual limitations inherent this category of products. In particular, to offer a superior image quality, ergonomics, ease of use and high productivity in a unique integrated solution. Among the main characteristics of the EDS-GAMMA there are:

- scan area size and resolution can vary according to user needs thanks to the integrated zoom optics and to the variable camera height and position; this makes possible to acquire very large originals (even larger than the A1 format) or increase the optical resolution over 800PPI on smaller formats.
- unique V-table solution with automatic shape recognition, deskew and curvature correction features.
- unrivalled image quality that is far beyond any other similar solution.
- extremely rapid acquisition time (about 30 full scans per minute).
- integrated METIS LED lighting solution with advanced software control and 3D features.
- comprehensive EDS acquisition software with many powerful and useful features.

## EDS GAMMA Technical Specifications

- Supported DSLR Digital Cameras (CMOS color):
  - Nikon D800, 36 MegaPixels, Full Frame sensor
  - Canon 5D MKII, 21 MegaPixels, Full Frame sensor
  - Canon 600D / 550D, 18 MegaPixels, APS-C sensor
- Extensive support of Nikon/Canon lenses
- Acquisition color depth of 14bit per channel (3x14bit), integrated sensors for real-time reading of exposure, color temperature and automatic focus
- Variable camera height and position in order to optimize scan area and optical resolution; adjustable optical resolution (over 800 PPI is possible) through:
  - integrated Zoom optics with motorized focus
  - variable camera height
- Acquisition area up to 90x60cm (A1=84x59,4cm). Acquisition area can be further extended (over the A0 format for drawings or maps)
- Adjustable working area: it includes the V-table which consists of two tiltable and shiftable fully independent plates which can be easily adapted to different needs and perfectly accommodate even difficult original such as old and fragile books with limited opening angle
- Acquisition time < 1 second; full cycle time, between one acquisition and the next one, including acquisition, processing and saving: ~ 2 seconds
- Professional EDS LED lighting system with CRI=93 and high luminous flux of 3800 lumen; it includes 4 LED lamps fully and independently adjustable in position and tilt. All lamps are directly controlled by the EDS Software. The EDS LED lighting system allows advanced features such as 3D acquisition, fine-light tuning options and reflection control.

## Minimal PC Specifications

- 4GB RAM
- 3x FREE USB 2.0 ports
- Windows 7 (32-64bit)

## METIS EDS Software Specifications

- Background and parallel image processing/saving (image processing and saving do not affect the acquisition time).
- "Live Video" function allow a real time control over the scanning area; this is particularly useful in order to maximize image quality and to perfectly position the original respect to the camera
- Image review and navigator tools with a full resolution image viewer
- Automatic JOB handling with full image and shooting parameters save and reuse
- Automatic image naming with user selectable rules (customizable fields, programmable increments, programmable actions, etc.)
- Automatic or manual exposure and gray balance control (light color temperature compensation)
- Automatic or manual focus control (with Depth Of Field customization)
- Manual and automatic Crop
- Automatic deskew and curvature correction
- Automatic book center and shape recognition; automatic page split with definable overlap
- Light uniformity correction Filter
- Automatic Finger recognition and removal filter
- EDS Light Control directly from the EDS software; it also allow advanced features such as: 3D acquisition for pattern, texture and relief enhancement (it extrapolate the 3-Dimensional shape and fine structure of the originals); fine software control of the light angle and intensity allow to control reflections and help optimizing image quality
- Keyboard shortcuts
- Image saving in grayscale and color in TIFF, JPEG, JPEG2000, BMP, PNG, PDF, Multipage PDF, Multipage TIFF, TIFF G4 1bit