

METIS

DRS 1300 DCS



by Metis

**The perfect merging between extreme quality
and productivity for the most demanding market**

It integrates the DC SynchroLight (Patent protected technology)

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Books / Atlases / Parchments

The new Metis DRS 1300 DCS system integrates a fully electronic book cradle that can effectively manage different types of planar and non planar originals (drawings, maps, papyrus, scrolls, parchments, but also books, atlases, etc.). This is the largest book cradle in the world with the ability to accept originals up to 130x91cm and 50 cm thick (larger originals can also be scanned thanks to the side vents provided in the system around the glass).

Thanks to real pressure sensors and to the highly sophisticated electronic management, Metis book cradle can be adapted to the most different digitization needs always maintaining a high level of safety for the original and an optimal configuration (required to provide the highest image quality level). For example, in the case of digitization of books or atlases, the book cradle integrate an electronic balance which automatically, and in real time, correct the height of the two sides of the book in functions of the detected information of weight and pressure. In this way the book is always maintained open in an optimum manner so as to allow a perfect digitization. Furthermore, when working with the originals in contact with the glass the pressure is minimum and continuously adjusted by the integrated pressure sensors which are capable of sensing minimal changes of even only a few grams. Working with the original in contact with the glass is recommended in order to keep the original as flat as possible and minimize distortions during digitization but working without contact with the glass is also possible. Thanks to these advanced solutions the DRS 1300 DCS book cradle is the only book cradle capable to handle very delicate originals in full safety and with a high degree of automation.

The different operational modes of the book cradle are highly customizable by the user, based on the specific needs, so as to allow a high productivity and optimization of the workflow (i.e. with automatic control of the scanner and book cradle by foot pedals).

Fine Art / Decor

The new Metis DRS 1300 DCS system is particularly suitable for high quality digitization and reproduction in the Fine-Art and Decor Markets. This is possible thanks to different technical solutions especially designed by Metis for this system (that has no equal in other scanners) such as the new DC SynchroLight lighting system and the "Light Inspector" software tool. In fact, the DC SynchroLight lighting system (patent protected technology) allows to obtain thousands of different light schematics providing a high capacity of image enhancement and quality optimization. The combination of the "Light Inspector" software and the DC SynchroLight lighting also enable to scan 3D information and store the depth map of the original together with the color information. The 3D information can be used individually (for example when scanning a painting in order to extrapolate the brush signs from the color information), or combined with the color image to obtain outstanding results, so far unreachable. Moreover, the "Light Inspector" tool also allows to store all the different light schematics in the same image file with the possibility to vary the light in real time directly by software and without the need to rescan the original.

Professional Cartography

The new Metis DRS 1300 DCS system is the only system in the world able to guarantee a very high geometric accuracy, which is fundamental for the digitization in professional cartographic applications. In fact, in professional cartography, faithful digitization of the original is essential, as the mutual distances between two points represent a specific distance information which must be safeguarded and reproduced as much precisely as possible. The DRS 1300 DCS, thanks to the particular opto-mechanical design and to unique solutions introduced by Metis, is able to provide images with practically perfect geometry and with a maximum measureable error less than 0.3% (measured in all directions and not only horizontally). This result is about 10 times better than what is today obtainable by any other professional scanner on the market, as repeatedly demonstrated by comparative technical tests carried out by primary European institutions.

Metis3D

In the next images it's possible to see a detail of a painting acquired in natural color and the relative 3D information. In this case the 3D image allows to study the brush and stroke with a high degree of detail by providing information that is otherwise invisible.



Thousands of possible results

Thanks to the DC SynchroLight, from a single scan is possible to extrapolate thousands of different versions of the same original.



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DRS 1300 DCS

The new DRS 1300 DCS introduces important features which have no comparison in any other system on the market such as the innovative *DC SynchroLight* lighting system (Dynamically Controlled Synchronized Light) which incorporates a new technology developed by Metis, covered by patent deposited in January 2010, which allows to dynamic control the light in the scanning area. The *DC SynchroLight* technology gives the ability to control and change dynamically, instantly and automatically the angle and intensity of the light emitted by the light sources in the scanning area, making it possible to optimize the result of the digitization, depending on the type and nature of the originals and thus providing results previously unreachable. The DRS 1300 DCS is a professional system designed in order to provide a “non-invasive” high quality digital reproduction of atlases, maps, books, drawings and parchments. Some of the new benefits introduced by the DRS 1300 DCS system are: high scanning speed; perfect zenithal vision; a highly automated electronic book cradle capable of handling A0 books over 50cm of thickness (the largest book cradle available on the market); the digital camera integrated into the DRS 1300 DCS system has been vertically motorized in order to allow achieving an optical resolution of 800PPI (and up to 1600x800PPI) on the A2 format; the geometrical accuracy is the highest possible allowing for use in the most demanding professional cartography applications; an unmatched lighting system with *DC SynchroLight* technology for light schematic variations; a driving software extremely powerful and complete. The automatic book cradle can accept books as well as drawings, maps and even tri-dimensional originals.

DRS 1300 DCS General Features

- Maximum original format: 91x130cm
- Image Sensor: Tri-linear Professional CCD, 3x12 = 36 bit
- Optical Resolution: 400-800 PPI (adjustable from 100 to 1600 PPI)
- Very Large Depth of Field (user selectable)
- Focusing: fine adjustable by Software control
- Lighting: new “*DC SynchroLight*” system, LED based, (IR/UV free) active only during the scanning process provide for thousands of different light schematics
- High grade precision and reliable mechanic
- Automatic Book Cradle for books up to A0 and 50cm thick with fine pressure adjustment; fully adjustable and user customizable
- Modular system can be assembled/disassembled in small parts for easy transportation
- Size (cm): Height 240, Length 205, Depth 160
- Weight: ~400 Kg

DRS 1300 DCS Performances

High real productivity including: original positioning, scanning, image processing, saving on local hard drive or network and book cradle operativity.
80 A0 x hour, 300PPI, in colour, in “Best Quality” Mode.

Metis DRS Software Features

- Native 64bit software and processing
- 16bit per channel image processing (3x16bit)
- Customizable user Profiles for workflow optimization and system settings retrieving
- Manual/automatic crop: up to 8 originals/pages
- Lighting calibration and Gray Balance tools
- Color/density tools: exposure, contrast, highlight, shadows, gamma, automatic adjustments, black and white points, histograms and point analysis, ICC color profiles, paper color correction, etc.
- Unsharp masking, despeckle, deskew, etc.
- “Light Inspector” tools allow for real-time light schematic variations and evaluation
- Completely automatic workflow allows operating the system directly from the front through foot pedal commands
- Ability to save in Metis DCS-RAW format for image post-processing (include light variations and 3D)

Workstation Minimal Requirements

- Latest Intel Processor
- 16 GigaBytes RAM
- Microsoft Windows 7 (64bit)

Product specification or appearance may change without prior notice. - V.13/06b-ENG

METIS Systems srl - Via del Fontanile Arenato 295 - 00163 - Rome - Italy
Tel. +39.06.6615.0066 - Fax +39.06.6614.1265 - e-mail: metis@metis-group.com
WEB: www.metis-digital.com