

DigiBook

Mag

December 2002, no. 3

2002 : A very good vintage for Digi-Book !

In this end of year 2002, I benefit from this occasion to thank you all, in the name of the DigiBook team. The results of this year 2002 are excellent and the number of the installed sites in a very strong progression. We thank all of our clients, usual and new, for their confidence in our products and testimonies of satisfaction. We also thank our distributors for the excellent work they have been doing on their respective market.

As you will be able to read in this magazine, Santa Claus will stop in i2s, in his basket a new building! Larger and even better adapted to the requirements of the quality standards. The dedicated surface to the production of the DigiBook scanners will be multiplied by two, the DigiBook team will welcome 3 to 4 more engineers in order to better serve you, improve the existing products and continue developing new ones. I don't resist to the pleasure of announcing you the forecast developments that will last all

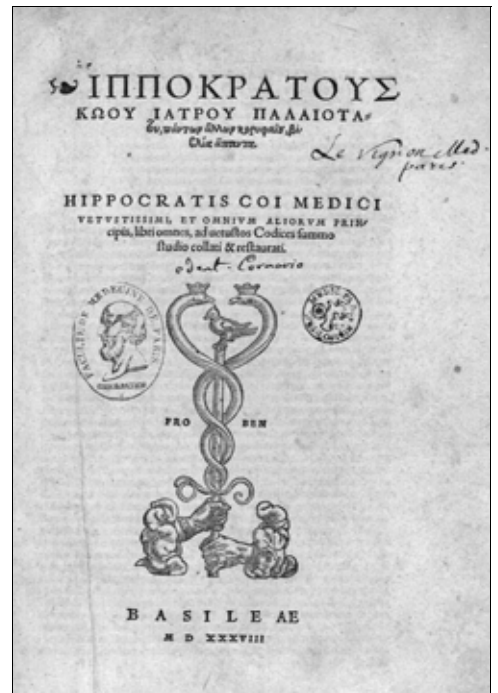
(Cont'd on page 4)

Hippocrate in the digital era !

At the beginning of the year 2000, the Inter University Medicine Library of Paris (BIUM) decides to set up an ambitious on-line project for digitized ancient works.

The aim is to make accessible, in 256 gray-level mode in Jpeg format, a certain amount of medical works that, for long, were not. Until now, and to limit the fastidious consulting of unique bound documents (wooden covers, important weights, etc.), the BIUM has realized some microfilm campaign, and proposed its readers to come and consult them in the library thanks to specific reading systems.

On the digitizing market, i2s already sheers of scanners that produce some very high quality images and contribute to the constant efforts of preservation of documents: non aggressive lightings, book cradles to take into account the characteristics of the binding of books,



no glass plate etc. Regardful of the DigiBook scanners performances, then the BIUM starts an important digitizing program.

The running of this digitizing process was given from the beginning

(Cont'd on page 3)

>> i2S IN BRIEF

The version 3.1 of the Book Restorer™ software is now available:

- Better productivity
- New verifying function

New version of book-cradles:

The Book Cradle 30 cm replaces the 20 cm-version one.

- Accepts 30 cm-thickness documents for a maximum weight of 30 kg.
- System of motor-powered balances with a control-console for a better accuracy of the adjustment.

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New RD lighting, How does it work ?

The new lighting is made of 4 fluorescent lighting sources that are symbolized by the cuts on the two hereafter schemes.

It comes in several lighting configurations depending on the document surface quality to digitize.

The **first configuration** offers a bi-lateral lighting dedicated to bright documents: the 1 and 4 sources work simultaneously. The lighting angle of incidence is studied to suppress the reflective effects in the optical axis of the imager. This configuration concerns the following documents : photos on bright paper and glazed one, adhesive pieces on the documents (plastified documents do not belong to such a category).

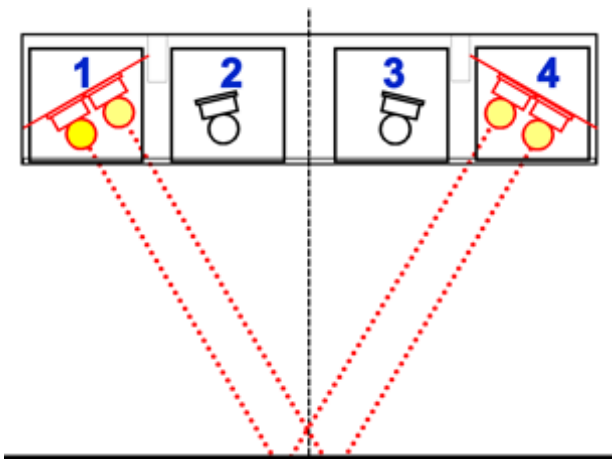
The **second configuration** is ideal for documents in relief (e.g, seals) and laminated pa-

pers. It implements a mono-lateral illumination by the only working of the source #1 or source #4. The angle of incidence of the illumination serves to generate relief.

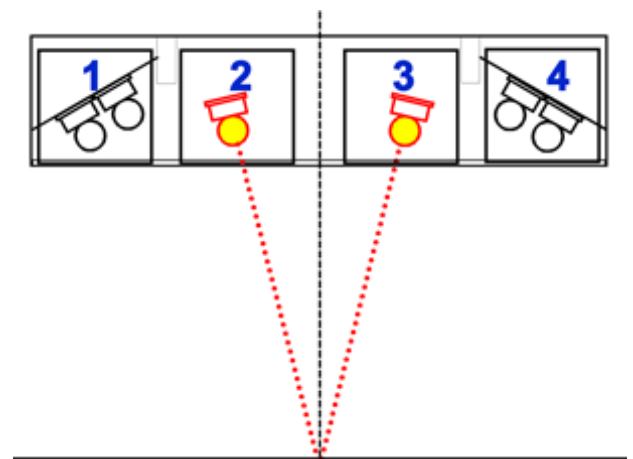
The **third configuration** operates a central illumination particularly adapted to the illumination of the binding background (the sources 2 and 3 work simultaneously).

The **last configuration** implements a total illumination that allows to decrease the exposure time of the imaging device for an increased productivity or the increment of the depth of field (all the sources 1, 2, 3, and 4 work).

NB: The Reflective Document version will be standardly available with the DB10000BW and DB10000RGB digitizers, and as an option on the DB2000LC, DB6002BW and DB6002RGB versions.



Im.1 : Configuration no1



Im.1 : Configuration no3

Illumination by transmission ?

Essential accessories to digitize negatives, the back-lighting tables proposed by i2S are per formant and optimize digitizing conditions while preserving all the details.

The major characteristics of our tables are the following ones :

- Uniform luminance
- Illuminated source of daylight kind
- High-frequency

- Lighting power electronic dimmer
- Glare suppression by curtains.



TECHNOLOGY

i2S moves !

In a fortnight, i2s will take possession of its new building, in which we will have the pleasure of welcoming you from January 3rd 2003. The moving will be operated between Christmas and New Year's day. On the practical hand : no change in the phone or fax numbers, the name of the street remains the same, with a number 19 turned in 28-30.

The itinerary access of i2s is identical: the new building is located right in front of the former one.

To know more about it, please contact your usual interlocutor or connect to :

http://www.i2s-vision.com/new_building/i2s-newbuilding.html



New building pattern

New address :

i2S SA

Parc technologique Europarc

28-30 rue Jean Perrin

33608 PESSAC CEDEX - FRANCE

Hippocrate in the digital era ... (cont'd).

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to a firm called ARKHËNUM (www.arkhenum.com), specialized in the digitization of the written and iconographic heritage.

ARKHËNUM is one of the first companies equipped with the DigiBook technology. Its expertise developed around the Book Restorer image enhancement software, allows it to apply some sophisticated algorithms to get some very compliant and identical reproductions of documents. In complex digitizing cases - leaflets disposing of some important curves (e.g, thick works), with wavy phenomenon in the page, the used algorithm has permitted to get some remarkably deskewed images, similar to the ones that would have been obtained if the book had

been unbound, and the same leaflets digitized on a flatbed scanner !!

Results? High-quality images, while guaranteeing integrity and respect of the original documents.

Until now, several corpus of the XVIth and XVIIth centuries have been digitized (Hippocrate, Galien, Celse, etc.), and this digital library disposes of some 105 volumes, that is more than 65000 pages on line. The whole of these images is presented in the « Medic@ » collection, accessible at the following website address: www.bium.univ-paris5.fr, heading « Histoire de la Médecine ».

By Christian Chabrier / Arkhënum

The IFLA fair 2002...

Once again, we thank all of our customers that came to visit us at the IFLA from August 18th to 21st, that occurred in Glasgow, SCOTLAND this year. Despite, an average frequentation rather low, our booth was particularly well visited thanks to our demonstration workshops. Let's recall we presented full solutions, in term of digitization, restoration, and data management.

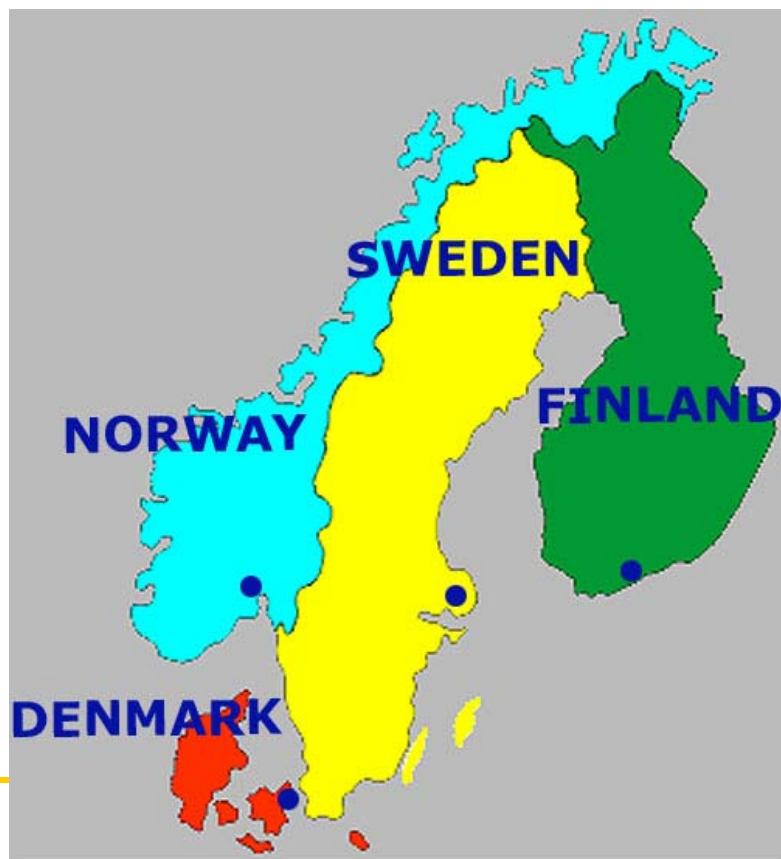
Next year, the IFLA fair will occur in Berlin, GERMANY.



DigiBook expands its distribution network to the Nordic countries !

The DigiBook department has the pleasure to share with you the extension of its distribution network. Actually, our division now exports its products to Denmark, Sweden, Norway and Finland. We thank our new Scandinavian and Finnish partners for their collaboration to promote our digitizing solutions, and assert a presence we want durable. We assure our Nordic distributors of our entire will of training, supporting, and accompanying them on their respective market.

> Contact us to obtain our distributors' coordinates.



Edito (cont'd)

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over the year 2003 to fetch up new major evolutions in our range.

Increase of the productivity gains

- Improvement of the digitising cycle time left-right: measured gain 1 to 1.5 sec. per cycle.
- Possibility of digitising left-right and then right-left: measured gain 1.5 to 2 sec. every two cycles

Improvement of the quality, the environment system and of the accessories

- New principle of the white balance
- Improved gamma 10/12 bits
- Faster camera generation
- Easier DPI resolution adjustment
- New generation of book-cradles 30 and 50 cm for A1 format
- Lighting table for transparent documents
- Up-grade for Windows® 2000
- New API version
- Hotline via internet

Industrialization of new products

We have developed a new A0 color and B&W prototype with our 10,000 pixels cameras, to digitise A0

flat documents but also bound documents in A1 formats. This prototype will be marketed in the current of March/April 2003 with some new specific accessories for maps, i.e. an A0 vacuum table and an A0 lighting one.

What's more ? this new scanner will allow the use of A1 book cradles to digitize bound works, as well.

Book Restorer™

In the coming months, we are going to dedicate ourselves to improve some already existing algorithms. These works will bring more flexibility and more speed to the different usual plug-ins of the version 3.1 of the Book Restorer software. For all these coming improvements and developments, I appoint a meeting with you in the following issues of the DigiBook Mag, and if I am well informed, also to announce a very big technical surprise (secret !!).

In the name of the whole DigiBook team I wish you all, Ladies and Gentlemen, a Merry Christmas and a Happy New Year with all our best wishes of health and good-fortune for the year 2003.

Alain COSTE
DigiBook Business Unit
Manager



i 2 S D i g i B o o k
phone +(33)(0)557 26 68 98
fax +(33)(0)557 26 68 99
www.i2s-bookscanner.com
info-bookscanner@i2s.fr

All remarks and suggestions have to be sent to Pascal CHEVALIER, in charge of Communication. p.chevalier@i2s.fr