BDAdigital

The Smart Solution for Gel Documentation

BioDocAnalyze (BDA) digital provides state-of-the-art imaging with an advanced digital single lens reflex (DSLR) camera. It is the first system of this type on the market. It combines a modern megapixel camera with superior optical quality with a specifically adapted image acquisition software and a powerful gel analysis software.

Camera parameters are easily set by software control. Parameter sets can be saved as individual user profiles for repetitive applications. The gel image is directly stored on a personal computer and the file is transferred by one mouse-click to the BioDocAnalyze gel analysis software. A high-resolution thermal printer creates prints in photo-quality but every standard Windows printer can also be used.
A professional gel analysis with automatic lane and band detection and subsequent size and mass calculation is completed with a few mouse-clicks. Thanks to the intuitive software-interface the use of the highly versatile software doesn´t require any detailed training.

BDAdigital compact with BDA Hood on UVstar transilluminator

The modular design offers the choice between the cost-effective **BDAdigital compact** set with small darkhood or the integration of more advanced darkhoods. Biometra offers BDAdigital also as fully installed complete **BDAdigital system** for pure „plug and play".

Applications

Image documentation of fluorescent and non-fluorescent electrophoresis gels and coloured blots, stained with any of these dyes and more:

- Ethidium bromide, GelRed™
- SYBR® Green, SYBR® Safe, SYBR® Gold, GelStar®
- SYPRO® Ruby, SYPRO® Orange
- Coomassie Blue
- Silver Stain
- Qdots®

Benefits

- High resolution images in colour or grey values
- Real-time image preview for easy gel positioning
- Dedicated software for camera control inclusive autofocus, manual focus, aperture and exposure time setting
- New, upgraded release of powerful BioDocAnalyze gel analysis software
- Independent use of the camera possible
- Anti-theft camera protection
- Sets for limited lab space and budget available

BDAdigital system with BDA Box 3

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System (Order No.)	Optional and included equipment	
	Darkhoods (Order No.)	Transilluminators (312 nm UV) (Order No.)
BDAdigital core set (034-000) includes: • Digital SLR camera with USB 2.0 interface (currently **12.2 MP resolution**, please ask for latest specs.), 18 – 55 mm zoom, power supply • UV filter for ethidium bromide stains • BioDocAnalyze image acquisition software and gel analysis software	**BDA Box 1 (034-801)** – optional • Epi-white light • UV protection shield • For integration of a transilluminator with max. footprint of 41.5 cm x 42.0 cm (W x D), e.g. UVstar • Incl. camera anti-theft device **or** **BDA Box 2 (034-802)** – optional • Epi-white light • UV protection shield • 4-position filter-wheel • Drawer for transilluminator (type UVstar) • Incl. camera anti-theft device **or** **BDA Box 3 (034-803)** – optional • Epi-white light • UV protection shield • 4-position filter-wheel • Drawer for transilluminator (type UVstar) • Epi-UV light (254 nm, 365 nm) • Incl. camera anti-theft device	Choose one of these optional models: **20 cm x 20 cm filter size** UVstar 20 (057-503)[1] UVstar 20i (057-513)[2] UVstar 20 plus (057-523)[1,3] UVstar 20i plus (057-533)[2,3] UVstar 20HM (057-543)[1,4] UVstar 20ML (057-553)[1,5] **23 cm x 30 cm filter size** UVstar 30 (057-603)[1] UVstar 30i (057-613)[2] UVstar 30 plus (057-623)[1,3] UVstar 30i plus (057-633)[2,3] UVstar 30HM (057-643)[1,4] UVstar 30ML (057-653)[1,5]
BDAdigital compact (034-050) includes: • BDAdigital core set 034-000 • BDA Hood	**BDA Hood** – included • Footprint 32.5 cm x 29.0 cm (W x D) • With small sliding door for gel positioning • Incl. camera anti-theft device	Models (optional) see above. For UVstar models inclusive UV protection shield please replace the order no. 057-xx3 against 057-xx0.
BDAdigital system 20 (034-302/032-312*) includes: • BDAdigital core set **plus** • BDA Box 2 • UVstar 20[1] • Personal computer, 19" TFT monitor • Thermal printer (Mitsubishi P95DE) • UV converter plate	**BDA Box 2** – included • Epi-white light • UV protection shield • 4-position filter-wheel • Drawer for transilluminator (type UVstar) • Incl. camera anti-theft device	**UVstar 20** – included • 20 cm x 20 cm filter size • 50 %/100 % intensity switch
BDAdigital system 30 (034-303/034-313*) includes: • BDAdigital core set **plus** • BDA Box 2 • UVstar 30[1] • Personal computer, 19" TFT monitor • Thermal printer (Mitsubishi P95DE) • UV converter plate	**BDA Box 2** – included *see above.*	**UVstar 30** – included • 23 cm x 30 cm filter size • 50 %/100 % intensity switch

BDA Box dimensions:
52 cm x 54 cm x 51 cm (W x D x H)

[1] *with 50 %/100 % intensity switch*
[2] *with 10 % – 100 % intensity setting*
[3] *with Super Brilliant filter*
[4] *with 254 nm and 312 nm UV*
[5] *with 312 nm and 365 nm UV*

Accessories

	Order No.
UV Converter plate: For application on a transilluminator for documentation of colour stains (30 x 24 x 0.8, W x D x H, cm)	057-005
Digital thermal printer Mitsubishi P95DE, high resolution (325 dpi), USB 2.0 interface	031-921
Thermal printer paper KP65HM, high contrast, 4 rolls à 20 m	031-985
Thermal printer paper KP95HG, high glossy, high contrast, 5 rolls à 18 m	031-987
Bandpass filter for SYBR® Green stains (transmission max. 520 nm)	034-012
Bandpass filter with wide pass (490 nm – 690 nm)	034-015
Bandpass filter with wide pass (490 nm – 690 nm) + adapter ring for filter wheel of BDA Box 2/3	034-016
Adapter ring 58 - 55 mm for mounting of filter 034-015 directly to the camera lens adapter	034-019
UV transparent acrylic tray for preparative tasks, 31 cm x 36 cm	057-012
UV transparent gel scoop, scoop area 14 cm x 15 cm	057-013

Software

	Order No.
Similarity Analysis Software: Software module for cluster and RFLP analysis as upgrade for BioDocAnalyze software	035-114

Computer minimum requirements
Personal computer with Windows XP or Windows 7, processor dual core 1.6 GHz, 1 GB RAM; graphic card resolution 1280 x 1024 or higher; CD-ROM drive. Compatible and fully installed computers and monitors are also available at Biometra.

* 032-302 and 032-303 are delivered with PC with German operation system, 032-312 and 032-313 are delivered with PC with English operation system.

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