

biostep Transilluminators

Result of long-time expertise and know-how

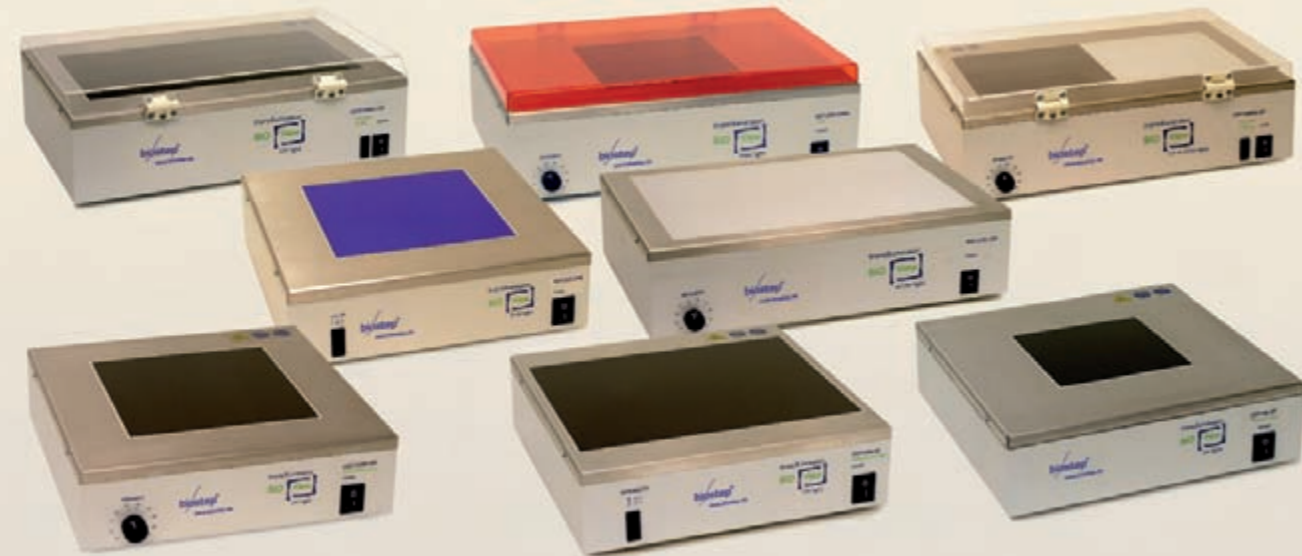


Applications

- fluorescent transparent samples (gels)
- colorimetrically-stained samples
- films and autoradiograms

Advantages

- excellent proof sensitivity due to optimal quantity of tubes per filter size (e.g. 12 x 8 W tubes at filter size 23 x 30 cm)
- vertical direction of the tubes (direction of lanes) at most types
- flicker-free illumination and elongated lifetime of the tubes due to gentle control via circuit board
- improved homogeneity due to special filter glasses
- cover plate made of stainless steel



Example equipment

Filter sizes

15 x 15 cm / 20 x 20 cm / 21 x 26 cm / 23 x 30 cm / 20 x 40 cm / 27 x 40 cm

Wavelengths

- UV tables with 1 or 2 wavelengths (254, 312 or 365 nm)
- blue light tables with LED matrix 504 or 765 (20 x 20, 21 x 26 or 23 x 30 cm)
- white light tables in different sizes and versions

Versions/Equipments

- K-Type: low cost version (switch on/off button)
- E-Type: with intensity switch 50/100 %, circuit board
- R-Type: with intensity setting 10 – 100 %, circuit board
- PC-Type: with intensity setting 10 – 100 %, circuit board, control of intensity and wavelength by software

Case sizes

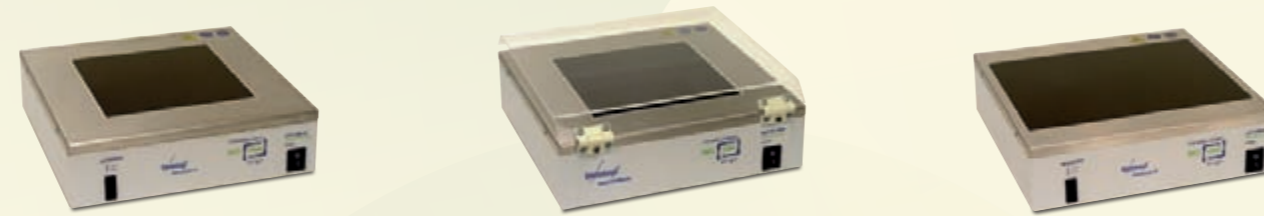
314 x 245 x 80 mm
325 x 322 x 105 mm
478 x 322 x 135 mm

biostep Transilluminators

Result of long-time expertise and know-how

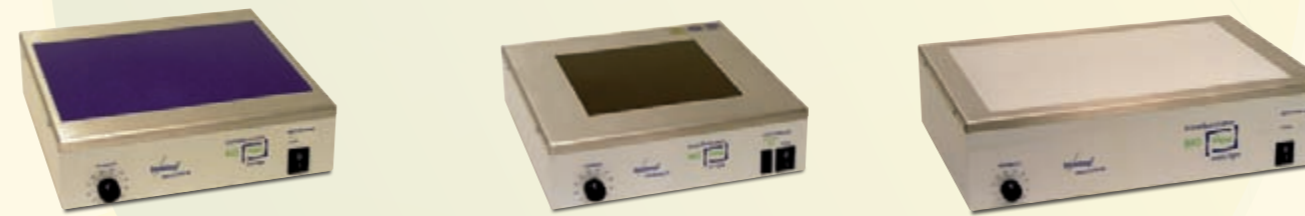


Example equipment



Example models

UST-20M-8E	top-selling model, filter size 20 x 20 cm, wavelength 312 nm, e.g. for EtBr applications
UST-20L-8PA	well suited for preparative tasks, wavelength 365 nm
UMT-26M-8E	popular filter size 21 x 26 cm, wavelength 312 nm, with intensity switch 50/100 %
UST-30M -8E	suitable for larger gels up to 23 x 30 cm, wavelength 312 nm
USDT-20ML-8R	2 wavelengths 312+365 nm, with intensity setting 10 - 100 %
UST-C15L-8E	with super contrast glass, small filter size 15 x 15 cm, wavelength 365 nm
BST-30G-D4R	blue light with large LED matrix for size 23 x 30 cm
BST-C20G-D2E	blue light super contrast glass with small LED matrix for size 20 x 20 cm
WXT-47W-15R	white light, filter size 27 x 40 cm, with intensity setting 10 - 100 %



Accessories

- UV tubes 4, 6, 8 and 15 Watt
- white light tubes 8 and 15 Watt
- UV protection shields, UV full face protection, UV safety glasses
- blue light filter shields, blue light filter glasses
- preparative working plates, conversion screens



Detailed information at www.biostep.com

Your dealer



biostep® GmbH
Innere Gewerbestraße 7
09235 Burkhardtendorf, Germany
Tel. +49(0) 3721-39 05-0
Fax +49(0) 3721-39 05-28
E-Mail: info@biostep.de

www.biostep.com



Your Specialist for
PCR, Electrophoresis, Bio-Imaging,
TLC & Analytics

PC-controlled Gel Documentation Systems

UV-Fluorescence • VIS-Fluorescence • Densitometry

Felix®



Configuration example

Felix® 2050 - The comfortable preparative system

- fully automated control of camera, dark hood and transilluminator via software argusX1®
- high-resolution digital reflex camera for detailed color and greyscale images
- analysis software for 1D gels
- dark hood DH-50 with sliding table - perfect for preparative working

Gel documentation and fluorescence system Felix® 2050 Order No.: BG62-A2455

Scope of supply:

- high-resolution reflex camera with 18 Mpixel, filters (e.g. EtBr) and light-sensitive objective (F1:1.8) with automated software-controlled settings for aperture and focus
- adjustment of the imaging area to sample size by digital zoom
- dark hood DH-50 with UV protection shield, dimmable white epi light and sliding table for transilluminator
- UV-transilluminator UST-20M-8R (filter area 20x20 cm, 8x8 W tubes, 312 nm, intensity 10-100 %)
- white light plate WCP-18-5E (area 18x13 cm, white light) for colorimetrically-stained samples
- argusX1® for controlling camera and dark hood; for imaging, analyzing and archiving

PC system Professional Order No.: CC01-A1080

- Shuttle XPC with min. 4 GB RAM, DVD Dual Multi Norm Recorder, NIC, 22" TFT-monitor, Win 7



Cameras



Dark Hoods



Acquisition Software



Analysis Software



Transilluminators



Printers and PCs

biostep® GmbH
also develops
and manufactures
according
to YOUR
requirements.
We gladly
assemble Your
individual system.

www.biostep.com



Felix® 1010 - Getting started easily

- powerful digital reflex camera with manual zoom objective
- high-quality color and greyscale acquisitions of extreme quality
- method-based control of camera via software argusX1®

Gel documentation system Felix® 1010 Order No.: BG62-A2010

Scope of supply:

- high-quality reflex camera with 18 Mpixel, filter (e.g. EtBr) and zoom objective (F1:3.5) with automated, software-controlled setting for aperture and focus
- set-top dark hood DH-10 with camera angle
- UV transilluminator UST-20M-8K incl. UV protection shield (filter size 20x20 cm, 6x8 W tubes, 312 nm)
- argusX1® for controlling camera, live image function, image acquisition and editions, archivation

Thermal printer P95DE Order No.: CD02-D1515

- digital monochrome printer with roll-type technology and USB port
- high resolution, short print time, low costs per print-out (from 0.05 €)



Configuration example



Felix® 2020 - The compact gel documentation system

- automated control of camera and dark hood via software argusX1® with acquisition methods, image processing and database
- compact dark hood with control panel, max. filter size 20 x 20 cm

Gel documentation system Felix® 2020 Order No.: BG62-A2125

Scope of supply:

- high-quality reflex camera with 18 Mpixel, filter (e.g. EtBr) and zoom objective (F1:1.8) with automated, software-controlled setting for aperture and focus
- adjustment of exposure area to sample size via digital zoom
- dark hood DH-20 with sliding door, dimm. white epi light and autom. UV cut-off when opening the door
- UV transilluminator UST-20M-8E (filter size 20x20 cm, 8x8 W tubes, 312 nm, intensity 50/100 %)
- argusX1® for controlling camera and dark hood, image acquisition and edition, archivation

UV protection shield for DH-20 Order No.: BD01-M3120

- vertically movable



Configuration example



Felix® 1040 - The extendable system for various applications

- powerful, digital reflex camera with manual zoom objective
- high-quality color and greyscale acquisitions of different applications
- dark hood with UV epi light, LED epi light, filter wheel, even more accessories on request
- transilluminator with maximum filter size of 27 x 40 cm possible

Gel documentation and fluorescence system Felix® 1040 Order No.: BG62-A2340

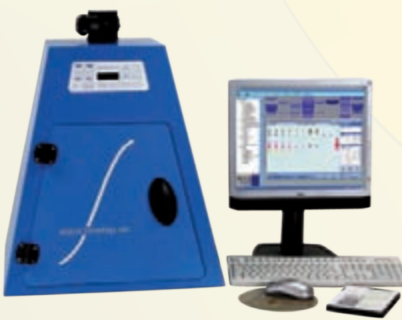
Scope of supply:

- high-quality reflex camera with 18 Mpixel, filter (e.g. EtBr) and zoom objective (F1:3.5) with automated, software-controlled setting for aperture and focus
- dark hood DH-40 with dimmable white epi light and automated UV cut-off when opening the door
- UV transilluminator UST-20M-8E (filter size 20x20 cm, 8x8 W tubes, 312 nm, intensity 50/100 %)
- white light plate WCP-18-5E (area 18x13 cm, white light) for colorimetrically-stained samples
- argusX1® for controlling camera and dark hood, image acquisition and edition, archivation
- analysis software for 1D electrophoresis gels and TLC plates

UV transilluminator UST-30M-8E (surcharge for UST-20M-8E) Upon request

PC system Standard Order No.: CC01-A1040

- PC with min. 4 GB RAM, DVD Dual Multi Norm Recorder, network interface card, 22" TFT monitor, Win 7



Configuration example



Felix® 6050 - Just more sensitivity

- wide linear dynamic range for optimized quantification
- manual adjustment of objective, automated control of CCD camera
- Super Contrast transilluminator for acquisition of versatile fluorescence stains
- increase of bit depth up to 16 bit via image addition in software argusX1®

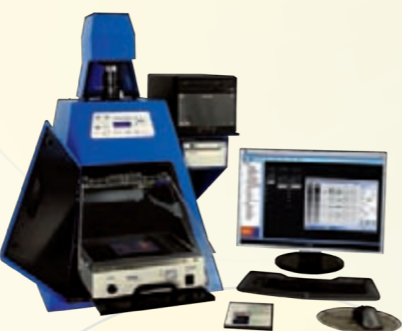
Gel documentation and fluorescence system Felix® 6050 Order No.: BG62-A4650

Scope of supply:

- 12 bit ProgressiveScan CCD camera Felix 6000 with 1.4 Mpixel (1392 x 1040), 1 filter
- manual zoom objective with excellent detection sensitivity (F1:1.0)
- Super Contrast transilluminator UST-C20M-8R (20x20 cm, 8x8 W tubes, 312 nm, intensity 10 - 100 %)
- dark hood DH-50 with UV protection shield, dimmable white epi light and sliding table for transilluminator; outstanding for preparative work
- white light plate WCP-18-5E (area 18x13 cm, white light) for colorimetrically-stained samples
- argusX1® for controlling camera and dark hood, image acquisition and edition, archivation
- argusX1® additional modules GLP and User Administration
- analysis software for 1D electrophoresis gels and TLC plates

Professional Analysis software (surcharge for standard version) Order No.: BW01-A0100

- 4 modules for automated analysis of 1D gels, blots, TLC, arrays, colonies, unspecific structures
- multiplex analysis (up to 4 channels) for modules 1D and array



Configuration example



Felix® 6050M - Fully automated, professional

- fully automated control of the system via software argusX1®
- features as system above but
- with motorzoom objective

Gel documentation and fluorescence system Felix 6050M Upon request

Extended scope of supply to Felix® 6050:

- PC controlled, light sensitive motorised zoom objective (F1:1.2) with high-quality optics
- PC controlled Super Contrast transilluminator with big filter area UST-C30M-8PC, 23x30 cm, 312 nm, intensity 10 - 100 %
- PC controlled, motorised filter wheel with 4 positions incl. 2 interference filters

Felix 6050M incl. UV epi light Standard Upon request

- 2x8 W tubes each right and left; UV wavelengths: 254 nm, 365 nm

Felix 6050M incl. UV and LED epi light Standard Upon request

- VIS wavelengths: 470 nm, 525 nm or 625 nm, illumination from two directions
- UV wavelengths: 254 nm, 2x8 W tubes each right and left



Additional modules of control and documentation software argusX1®

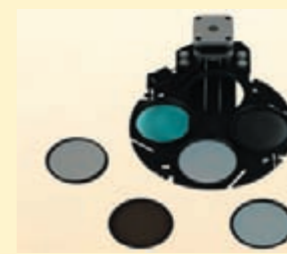
- module User Administration ⇒ for user profiles and user-related program settings (e.g. language, image name, export path, export and print format, active project); assignment of image and method data to user
- module GLP ⇒ internal protocol system for record and documentation of all relevant processing steps in processing history; storage of raw data image as original
- module Project Administration ⇒ creation of many projects (database); acquisition and assignment of image data to different databases according to time and application

argusX1® additional module User Administration Order No.: BG02-A7310

argusX1® additional module GLP Order No.: BG02-A7520

argusX1® additional module Project Administration Order No.: BG02-A7345

Accessories (Selection)



Motorised filter wheel for dark hoods DH-40 and DH-50

- filter wheel with 5 filter positions
- direct and method-based control via software argusX1®, alternatively controllable via touchpad of the dark hood
- filter selection available for most commonly-used fluorescence stains

Motorised filter wheel with 5 positions (without filters) Order No.: M062-K1140



Motor zoom objective for dark hoods DH-40 and DH-50

- automated control of zoom, aperture and focus
- direct and method-based control via software argusX1®, alternatively controllable via touchpad of the dark hood
- objective with excellent optical features and high image quality
- light level F1:1.2 for excellent detection sensitivity
- focal length 8 - 80 mm for wide zoom area
- for use with systems Felix 5000/6000/7000

Motor zoom objective incl. control electronics for DH-40/50 (surcharge) Upon request



UV and LED epi light for dark hoods DH-40 and DH-50

- epi wavelengths for fluorescence excitation of blots, TLC and similar samples
 - epi wavelengths UV: 254 nm, 312 nm, 365 nm
 - epi wavelengths LED: 470 nm, 525 nm, 625 nm each dimmable in 20 steps, other wavelengths upon request
- options with max. 5 wavelengths each (UV and LED combinable):
 - Standard illumination from 2 directions
 - Professional illumination from 3 or 4 directions

UV epi light Standard Order No.: BD03-M7150

UV epi light Professional Order No.: BD03-M7165

VIS LED epi light Standard Order No.: LA04-P4752

VIS LED epi light Professional Order No.: LA04-P4762



UV epi light Professional

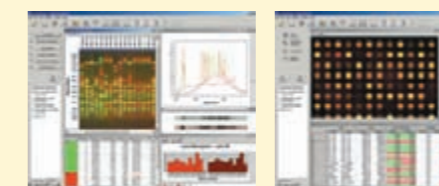


Analysis software for different applications

CLIQS: 1D gels, western blots, TLC, arrays, dot/slot blots, microtiter plates, colony counting, autoradiograms

CLIQS 1D Pro: 1D database for comprehensive analysis in reference libraries

CLIQS 1D 21CFR: GxP conform analysis of 1D gels, Western blots and TLC/HPTLC plates



[Complete product range at www.biostep.com]

[Complete product range at www.biostep.com]

