

# PC-controlled Gel Documentation Systems Felix®

UV-Fluorescence | VIS-Fluorescence



**biostep**®

It's all about Bio-Imaging.

[www.biostep.de](http://www.biostep.de)

## Felix® 1010 - Getting started easily



Configuration example

- 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 €)

## Felix® 2020 - The compact gel documentation system



Configuration example

- 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



- 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 %)
- converter plate 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**

- filter size 23x30 cm, 12x8 W tubes, 312 nm, intensity 50/100 %

**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 10

# Felix® 2050 - The comfortable preparative system



Configuration example

- 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

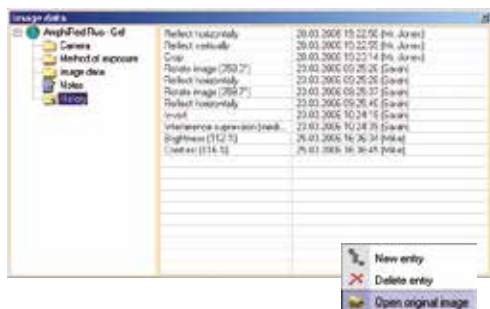
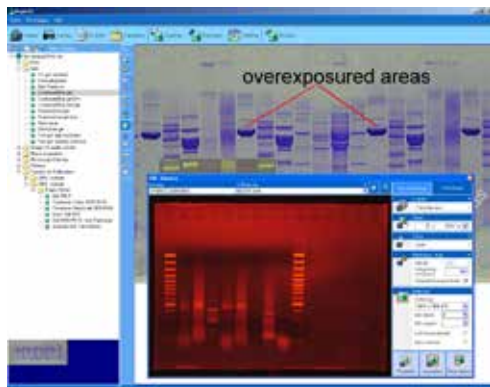
Gel documentation and fluorescence system Felix® 2050  
Order No.: BG62-A2455

#### 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 %)
- converter plate 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 10



## Acquisition and archiving software argusX1® with data base and post-processing tool

- Operating of all camera functions, as well as darkhood and transilluminator
- Data base for storage and reproducing of all capturing parameters with comprehensive search function
- Post-processing tool for the captured images
- Functionalities:
  - Real-time live image
  - Creation and storage of acquisition templates for different applications
  - Rotation of images e.g. in free angle
  - Labeling of the captured samples
  - Creation of different print reports
  - Direct transfer to analysis software

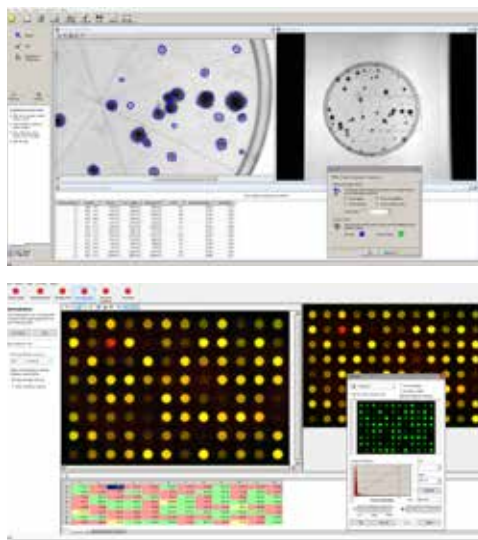
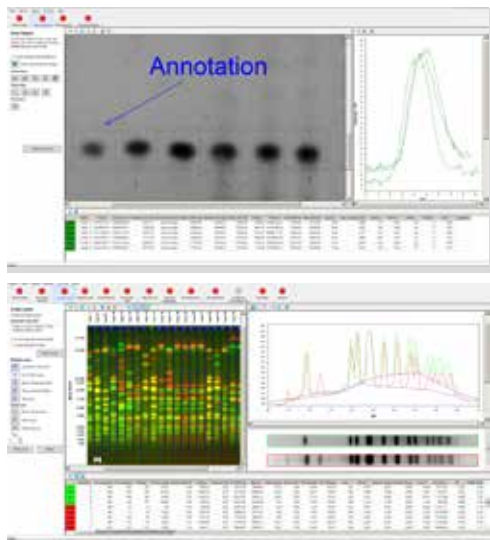
## Additional modules of control and documentation software argusX1®

- 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 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 Project Administration → creation of many projects (database); acquisition and assignment of image data to different databases according to time and application

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

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

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



## 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 compliant analysis of 1D gels incl. dendrogram generation

# Transilluminators

Result of long-time expertise and know-how

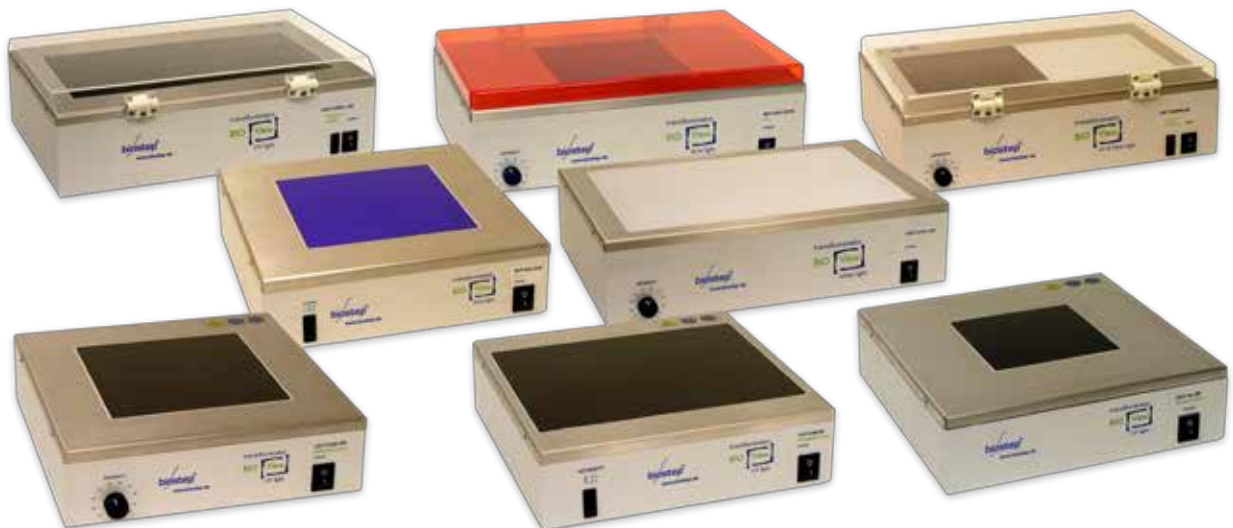


## Applications

- fluorescent transparent samples (DNA-/RNA-gels)
- colorimetrically-stained samples (protein-Gels)
- films and autoradiogramms

## 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
- flexibility by modular system



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

## 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
- super contrast glass for fluorescent dyes between 420 and 800 nm as well as intense background minimization

## 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

further models on request

## Case sizes

314 x 245 x 80 mm (M)  
325 x 322 x 105 mm (S)  
478 x 322 x 135 mm (X)

# Transilluminators

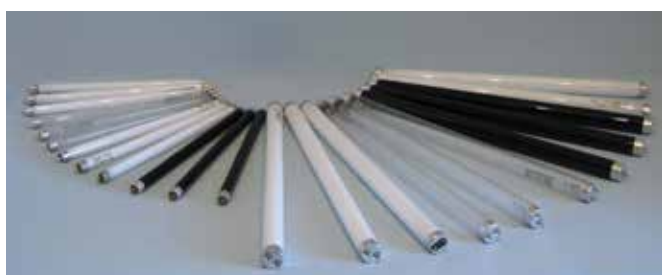
Result of long-time expertise and know-how

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-15L-8K	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-C20L-8E	with super contrast glass, small filter size 20 x 20 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

## About biostep®

### biostep® - made in Germany

Since 1997, biostep® offers different products for Bio-Imaging. In Burkhardtsdorf (Saxony), we develop and produce instruments incl. software according to German quality standards for users worldwide.

At the beginning, we focused on radioanalytic measurement technology and UV-transilluminators. As time went on, we developed different gel documentation systems as well as chemiluminescent and fluorescence imager by systematic research.

In 2012 we took over the world-famous and established product line of Thin-layer chromatography (TLC/HPTLC) of the company Desaga GmbH. Due to some technical common features of these differentiated application fields there are numerous synergy effects for customers benefit in both areas.

After 20 years of experience, the team of biostep® GmbH is established as a leading developer and producer of different transilluminators, dark hoods, documentation systems, imagers and densitometers mainly in the field of molecular biology as well as thin-layer chromatography.

**Test yourself!**

**Today, biostep® is YOUR Specialist for Bio-Imaging.**



### biostep® GmbH

Innere Gewerbestraße 7  
09235 Burkhardtsdorf, Germany  
T +49(0) 3721-39 05-0  
F +49(0) 3721-39 05-28  
info@biostep.de