bionis

LED TECHNOLOGY HPTLC DOCUMENTATION SYSTEM

PROVIDOC
DD90
Reference: BS147.013

Full LEDs device: White (Transmission, Remission), 254nm (UVC), 310 nm (UVB), 365 nm (UVA) and 395nm (UVA)
Security thanks to UV safety switch
Pull-out drawer for easy positioning of your samples
High-resolution Industrial CMOS camera
Acquisition and documentation thanks to new software argusX3 incl. database
Integrated user management
GLP-conform image acquisition with date and time
Extensive image processing possibilities
21 CFR Part 11 compliant including a complete system audit trail by additional module

The ProViDoc DD90 is a high-performance documentation system with brilliant recording quality. The workstation consists of a dark hood with different light sources, a camera for taking high-resolution images, a documentation top for guaranteeing the optimal distance between camera and sample as well as a software for controlling the system and saving the recorded images.
The UV LEDs are arranged symmetrically in the Providoc DD 90 for different light sources and guarantee the homogeneous illumination. When the drawer is opened, there is an automatic UV cutoff for safety reasons.
A special white light LED is fitted in the base for transmitting light applications. It is now possible to examine individual wavelength ranges.
You can choose between 254nm, 310 nm, 365 nm and 395 nm, or use all four wavelengths together for your test.
The Providoc DD90 allows you to work according to GLP laboratory requirements and subsequently detect the wavelength more accurately.

OPERATION

Illumination

Large illumination compartment 390 x 385 x 280mm (W x D x H)
Provides overhead illumination of TLC/HPTLC plates with 2x254 nm UV LEDs, 2x310 nm UV LEDs, 2x365 nmUV LEDs , 2x395 nm UV LEDs, 2x white LEDs
Allows to illuminate from below (transparency) the tlc plates thanks to 1x white LED, for transmission analysis

Observation

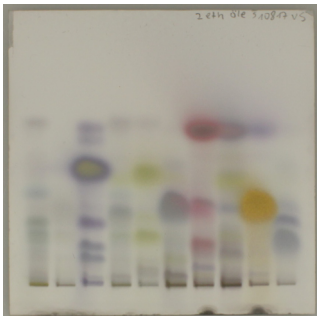
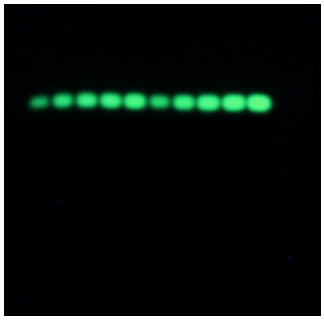
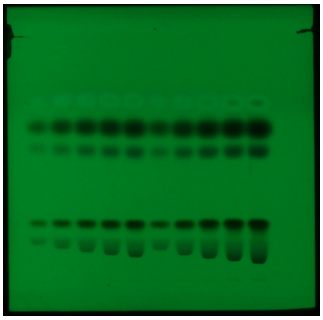
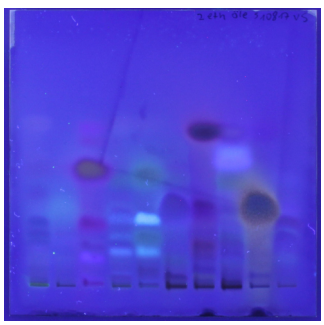
The transparent support of the base, covered with an acrylic sheet, makes it possible to observe TLC plates up to 200 x 200mm.
UV circuit breaker when opening the cabinet (user protection). Switch to keep the lamps on for certain jobs (Preparative Thin Layer Chromatography).

Capture head

Upper module consisting of a camera support plate, which acts as an interface and completely protects the system from stray light.
Special high-quality optical glass filter for UV work, which can be mounted on the filter holder if required. Filter for stable colour reproduction and high resolution.

Digital camera

System comprising a high-resolution CMOS camera with a high-performance lens. Its high light sensitivity means it can record weak fluorescence.
Resolution: 19.7Mpixels, 2F 1/1.8 CMOS sensor

NEW SOFTWARE ARGUS X3

Special dedicated software for saving, processing and archiving images taken by the ProViDoc DD90 camera, ArgusX3 makes it possible to qualitatively manage images and:

-Enlarge them

-Change format

-Change colors, shine, sharpness, etc… to reach the best adjustment in order to make it possible to visualize all the tasks, even the weakest ones

- Compare several adjustments

-Add comments, shapes, scales and Rf indices

-Add date

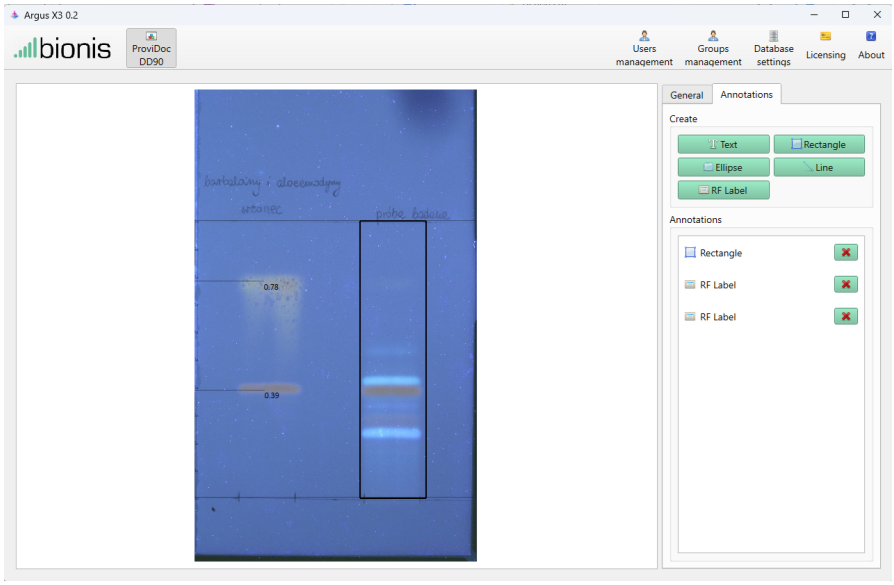
-Classify them in files saved by passwords,

-Compare them, superimpose them, etc.

-Edit reportsfor each of the programmed methods

Each image is automatically saved with the date, user name and unique identification number. It can therefore be stored according to GLP guidelines and can even be password protected if desired.

Also available, as an option, version compliant with CFR 21 part. 11



PROVIDOC

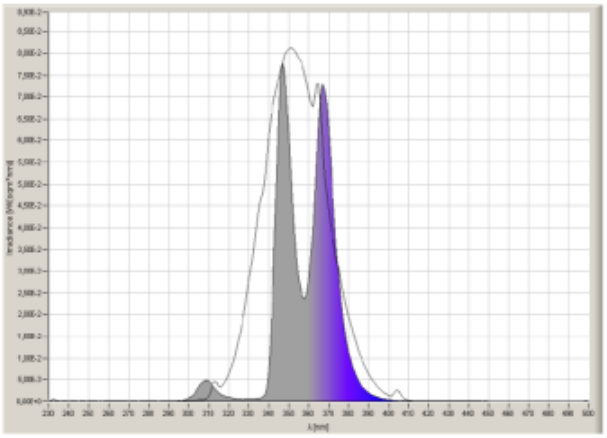
DD90

LED TECHNOLOGY HPTLC DOCUMENTATION SYSTEM

TECHNICAL SPECIFICATIONS

Providoc DD90

detection area: 200 x 200 mm
dimensions (L x W x H): 400 x 460 x 510 mm
Weight: 17.5 kg



Light sources:
2x UV LEDs 254 nm
4x UV LEDs 310 nm
2x UV LEDs 365 nm
2x UV LEDs 395 nm
2x white LED
1x white LED transmission

Camera:
Industrial CMOS camera
Resolution of 19.7 MPixels
Light sensitive lens F 1/1.8

REFERENCES FOR ORDER

Reference	Description
BS147.013	HPTLC documentation system PROVIDOC DD90 - 230V
BS147.014	HPTLC documentation system PROVIDOC DD90 - 110V
BS150.030	Module 21 CFR Part 11 for Argus X3
BS140.066	IQ/OQ documents for PROVIDOC DD90
BS140.068	IQ/OQ documents for PROVIDOC DD90 with CRF21 part 11 module
BS140.085	Validation plate for documentation system
BS160.001	Salycilate plate for documentation system
BS160.002	Rhodamine B plate for 310nm UV Led control
BS147.005	QuantiX3 - Argus X3 Quant. Module

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