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LED TECHNOLOGY HPTLC DOCUMENTATION SYSTEM

PROVIDOC
DD80
Reference: BS147.003

White (LED), UV light at 254 nm (tube), 310 nm (LED), 385 nm (LED) and 366 nm (LED)
Low energy consumption thanks to LED lamps
Light intensity adjustment
With UV safety switch
Pull-out drawer for easy positioning of your samples
High-resolution digital camera
USB-C Connection
Acquisition and documentation software argusX2 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 DD80 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 Tubes and LEDs are arranged symmetrically in the Providoc DD 80 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 310 nm, 385 nm and 366 nm, or use all three wavelengths together for your test.
The spectrum of the original fluorescent tube can be reproduced using LED technology (all 3 wavelengths active). This allows you to work according to 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 2 x 254 nm 8 watts UV Lamps, 4x UV LED 310 nm, 2x UV LED 385 nm, 2x UV LED 366 nm, 4x white LED
Allows to illuminate from below (transparency) the tlc plates thanks to 1x white LED, for transmission analysis

Observation

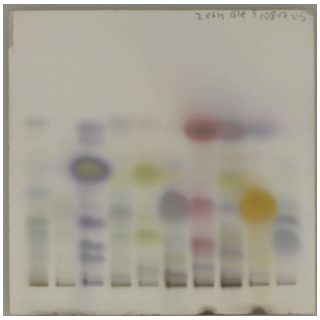
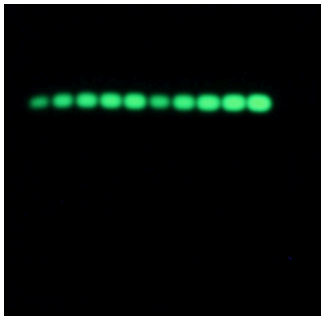
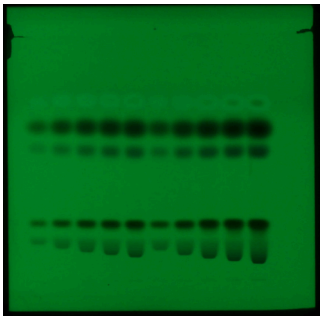
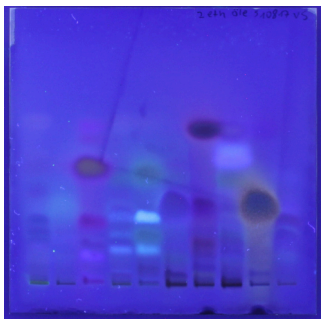
The transparent support of the base, covered with an acrylic sheet, makes it possible to observe TLC plates up to 200 x 200mm.
UV circuit breaker when opening the cabinet (user protection). Switch to keep the lamps on for certain jobs (Preparative Thin Layer Chromatography).

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 digital SLR camera with a high-performance lens, motorised zoom and autofocus. Its high light sensitivity means it can record weak fluorescence.
Automatic zoom, Resolution: 18Mpixels, 22.3mm x 14.9mm CMOS sensor

SOFTWARE ARGUS X2

Special dedicated software for saving, processing and archiving images taken by the ProViDoc DD80 camera, ArgusX2 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

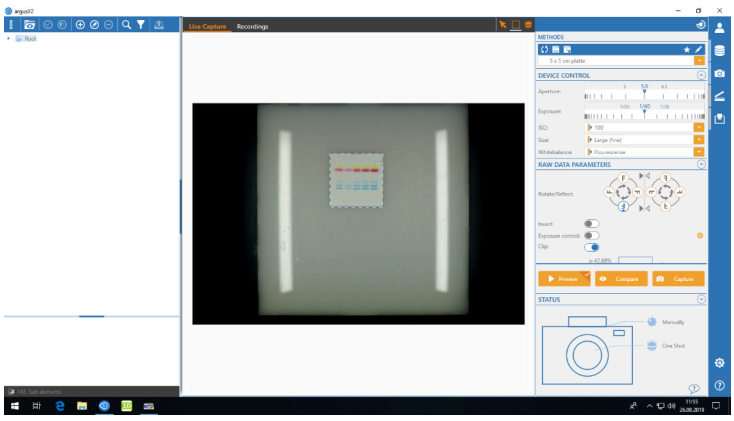
-Classify them in files saved by passwords,

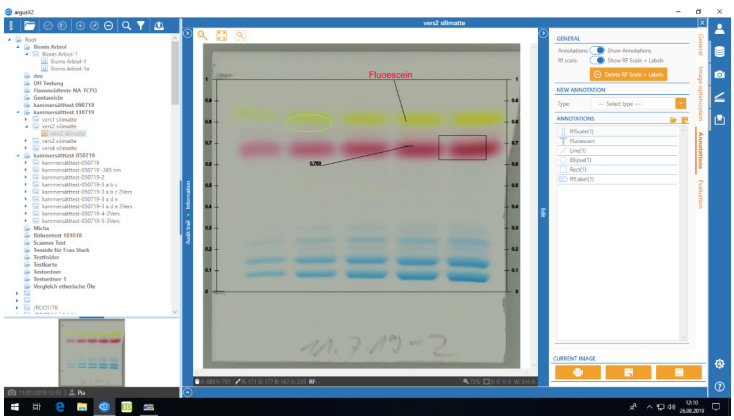
-Compare them, superimpose them, etc.

-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





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PROVIDOC DD80

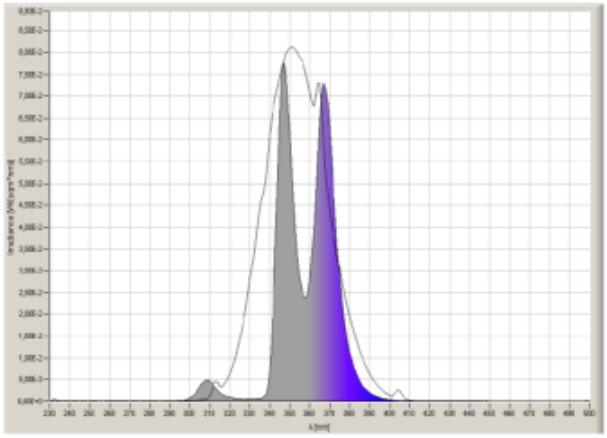
LED TECHNOLOGY HPTLC DOCUMENTATION SYSTEM

TECHNICAL SPECIFICATIONS

Providoc DD80

detection area: 200 x 200 mm
dimensions (W x H x D): 450 x 400 x 680 mm
Weight: 33 kg

Light sources:
2x UV tube 254 nm
4x UV LED 310 nm
2x UV LED 385 nm
2x UV LED 366 nm
4x white LED
1x white LED transmission
Camera:
Digital mirror reflex camera
Resolution of 24 MPixels
Light sensitive lens F 2.8
Autofocus



REFERENCES FOR ORDER

Reference	Description
BS147.003	HPTLC documentation system PROVIDOC DD80 - 230V
BS147.004	HPTLC documentation system PROVIDOC DD80 - 110V
BS150.030	Module 21 CFR Part 11
BS140.066	Documents: IQ/OQ for PROVIDOC DD80
BS140.085	Validation plate for documentation system

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