DENSORAPID D/ DLI

Transmission Densitometer
according to ISO 5, ISO 14807, ASTM E1079

Luminance and Illuminance Multi Light Meter
according to DIN 5032-7, class C



For precise determination
of optical densities of X-ray films,
luminance measurement at monitors and
illuminance measurement at evaluation stations

KOWOTEST
Suppliers of Equipment for Inspection

DENSORAPID D Densitometer for optical Density

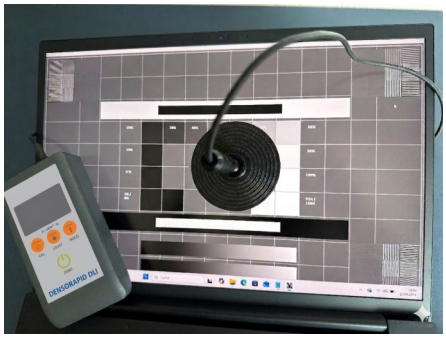
DENSORAPID DLI Densitometer and Multi Lightmeter for optical Density, Luminance and Illuminance

For precise determination of optical densities of X-ray films, luminance and illuminance the DENSORAPID D/ DLI is equipped with innovative digital measuring technique.
The illuminated display enables easy readings even in darkened rooms and calibration of the instrument for optical density, done with the software, is simple and much more accurate than on conventional densitometers.
Fault-free measurements even in slightly inclined positions are guaranteed by the ergonomic hand probe with a soft tip avoiding scratches on the film. The battery is charged with an USB C charger and ensures an operating time of over 100 hours with display illumination switched off.
DENSORAPID DLI only - For luminance and illuminance measurements of film viewers, monitors and evaluation stations special designed adapters or covers are plugged onto the measuring probe. A monitor test image is supplied on an USB stick.



Specification for DENSORAPID D/ DLI:

Housing:	ABS plastics, IP 65
Hand probe:	Aluminum, anodized
Communication port:	USB 2.0, USB C
Battery operating time:	100 hours (illumination off)
USB Charger:	100 ... 240 V, 50 ... 60 Hz, USB C
Dimensions unit:	135 x 73 x 29 mm (LxWxH)
Dimensions probe:	Ø 14 x 120 mm (ØxL), cable 1 m
Dimensions case: :	325 x 270 x 55 mm
Weight unit:	0.25 kg
Weight total with case:	0.90 kg



Transmission Densitometer - DENSORAPID D and DLI:

Measuring range:	D 0.00 ... > 5.00
Resolution:	D 0.01
Accuracy:	+/- D 0.03
Repeatability:	+/- D 0.02
Aperture size:	Ø 2.0 mm

Required measuring light source - Film viewer:

Luminance:	70,000 ... 100,000 cd/m²
Color temperature:	2,800 ... 5,000 K

DENSORAPID DLI	**Luminance Meter**	**Illuminance Meter**
Measuring range:	0.1 ... 1,500,000 cd/m²	0.1 ... 200,000 lx
Resolution:	0.1 ... 100 cd/m²	0.1 ... 100 lx
Total Error:	max. 15%	max. 15%
Error Limits:	20%	20%

(allowed according to DIN5032, part 7, class C)



Scope of supply:	DENSORAPID D	DENSORAPID DLI
	Art. No.: 13 40540	*Art. No.: 13 40550*
complete with:		
Transport case	*Art. No.: 13 40547*	*Art. No.: 13 40547*
Measuring mask, magnetic, 10x24 cm / Ø 10 mm	*Art. No.: 13 40104*	*Art. No.: 13 40104*
KOWOSTEP D Density step tablet	*Art. No.: 13 40207*	*Art. No.: 13 40207*
USB Charger	*Art. No.: 13 40546*	*Art. No.: 13 40551*
Measuring adpter, cd/m², Ø 19 mm	*not included*	*Art. No.: 13 40552*
Measuring diffusor, Lux, Ø 15 mm	*not included*	*Art. No.: 13 40554*
Test Image for Monitor, USD Stick	*not included*	*Art. No.: 13 40560*

Test certificates, Certificates of Conformity



Accessories:

Measuring mask, magnetic, 10x48 cm / Ø 10 mm	*Article No.: 13 40084*
X Densitometer holder for KOWOLUX X, universal	*Article No.: 13 40087*
BAM X-001 Density step tablet, 15 densities >0,20 ... >5,00	*Article No.: 13 40205*

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