

High-Intensity Compact Light Source with a Mercury Short-Arc Reflector Lamp 120 W

LQ-HXP 120

This compact device is the ideal external light source for fluorescence excitation in microscopy. Coupling is preferably achieved via liquid light guides. The average service life of a lamp is 2,000 hours. The optimised internal air flow cools the lamp and enables quiet operation. A resettable operating hour meter shows lamp operating hours. The brightness of the lamp output can be varied in 5 steps (0-100%) by means of a mechanical dimmer unit. An ultra-fast shutter opens or closes after activation with approx. 6 ms. The shutter is actuated by means of an appliance switch, but is also possible externally by means of a remote control input or CAN-BUS connection. This compact light source is available as a VIS or UV version in addition to a version that permits the coupling of multi-pin liquid light guides.



Light source with lighting adapter

Lighting

HBO/XBO

Light sources

Flashlight

UV-Equipment

Other

Features

- long lamp service life
2000 hours (avg.)
- integrated lamp reflector unit,
no adjustment
- automatic glare shield when light
guide is disconnected
- no heat on the illuminated sample
- 5-steps dimming
- integrated shutter electronically controlled
- Interface for internal shutter:
 - via remote signal
 - via hand/foot-actuated switch
 - CAN-BUS connection on request
- RoHS-compliant
- CE-compliant
- UL/CSA- approval

Applications

- Microscopy / fluoreszenz lighting
- Image processing
- Forensic
- UV-curing

Safety	as per EN 61010-1
Equipment class	I
Protection class	IP 20 (EN 60529)
Safety circuit	switches unit supply off when device lid is opened
Excess temperature protection	switches lamp voltage off in the event of excess temperature, switches on again after cooling
Glare shield	light output remains automatically closed as long as no light guide is connected
EMC	
Interference	EN 61326 (class B)
Immunity	EN 61326 appendix A
Voltage fluctuations, flicker	EN 61000-3-3
Harmonic current emissions	EN 61000-3-2
Environmental conditions	
Ambiente tmeperatur	0 °C up to 40 °C
Storage temperature	- 20 °C up to + 85 °C
Model	desktop device
Dimensions (HxWxd)	210 x 130 x 290 mm
Weight	ca. 4,7 kg
Conformity	CE, RoHS
Approvals	UL/CSA

Subject to errors and alterations with regard to technological progress.

Technical data LQ-HXP 120 Components



LQ-HXP 120 with lighting adapter

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Compact light source		LQ-HXP 120			
Connection conditions					
Mains voltage	100 up to 240 VAC ± 10 %, 50 up to 60 Hz				
Power input	max. 210 VA				
Device type (Configuration)	LQ-HXP 120-3	LQ-HXP 120-5	LQ-HXP 120-UV	LQ-HXP 120-Xpole for multi-pin light guide coupling	
Mercury short-arc reflector lamp	HXP R 120W/45C VIS with focussed reflector (OSRAM)	HXP R 120W/45C VIS with focussed reflector (OSRAM)	HXP R 120W/45C UV with focussed reflector (OSRAM)	HXP R 120W/45C VIS with focussed reflector (OSRAM)	
Light output (other on request)	light guide retainer, type Storz long, f. light guide active Ø 3 mm	light guide retainer, type Storz long, f. light guide active Ø 5 mm	light guide retainer, type Storz long, f. light guide active Ø 5 mm	light guide retainer type LUMATEC D. light guide active Ø 3 mm	
Filter/ heat protection filter installed in filter holder	UV-IR cut - filter	UV-IR cut - filter	IR- reflection filter	UV-IR cut - filter	
Shutter	electrical control via interface, max. frequency 40 Hz, switching time approx. 6 ms				
Dimming	mechanically, 5 steps 0 ... 100%				
operating hour meter	display of lamp operation hours, resettable				
Interface: shutter activation	remote control connection for remote signal and foot switch, CAN-BUS-connector on request				

Accessories

Accessories such as replacement bulbs, fiber-optic cables and adapters can be found in the separate data sheet.

Light source LQ-HXP 120 - Accessories

Order

Scope of delivery	device with lamp mains cable and manual (optional accessories)
Order example (standard)	LQ-HXP 120-3 (with lamp HXP R 120W/45C VIS)

Since the basic device types and accessories permit numerous customer-specific configuration options, please do not hesitate to contact us.

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