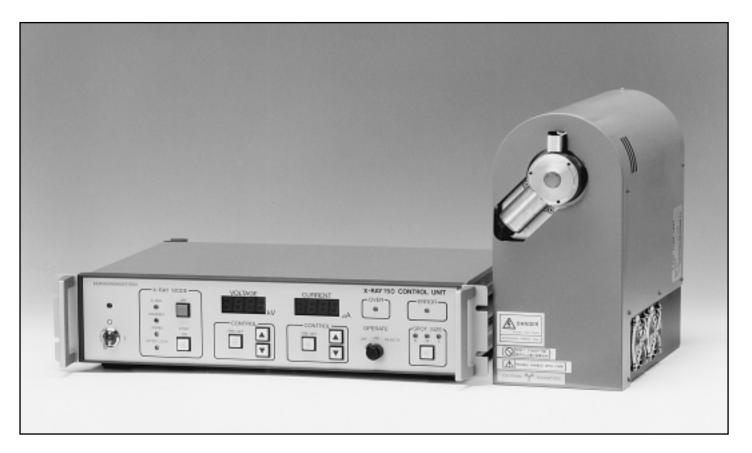
150 kV NEW MICROFOCUS X-RAY SOURCE L8121-01



FEATURES

• Focal Spot Size: 5 µm (at 4 W)

Providing 5 µm focal spot size, for the sealed-off type X-ray source with built-in power supply. It gives a clear clairvoyance image despite of higher magnification ratio.

Easy Handling

Convenient handling (with no high voltage wiring) since the air cooled X-ray source and the high voltage power supply are in one package.

Continuous Operation

It allows continuous maximum output, 150 kV and 500 μ A, operation.

Built-in External Control Function

It is automatically operable from external control since it has a built-in RS-232C interface.

APPLICATIONS

X-ray Non-destructive Test Electronic Components

- Printed Circuits
- Semiconductor Devices
- Soldered Parts
- Combinated Materials New materials
- Multilayer Printed Circuit Board X-ray Inspection.Drilling Instrument

Ceramics

Rubbers

Die casting

Plastics

- Industrial On-line Process Control and Measurement
- Industrial X-ray Computer **Tomography System**



SPECIFICATIONS

•GENERAL

Parameter		Value/Description	Unit
Target Voltage		40 to 150	kV
Target Current		0 to 500	μA
Maximum Output Power		75	W
Focal Spot Size	"S" Small Spot Mode	7 (10 W isowatts), 5 (4 W)	μm
	"M" Middle Spot Mode	20 (30 W isowatts)	μm
	"L" Large Spot Mode	50 (75 W)	μm
Beam Angle		43	degree
Minimum Distance Focus/Object		17	mm
Environmental X-ray Dose Leakage		20	mSv/h Max.
Operation		Continuous	_

■X-RAY TUBE UNIT

Parameter	Description	
X-ray Tube	Sealed Type	
Cooling Method	Forced Air Cooling	
Window Material	Beryllium (200 µmt)	
Target Material	Tungsten	
Cathode Material	Dispenser Cathode	
Window Position	End-window	
High Voltage	Built-in Type	
Power Supply		
Operation /Storage	+10 °C to +40 °C / 0 °C to +50 °C	
Temperature		
Operation/Storage	85 % RH Max. [@]	
Humidity	00 /0 Hill Max. 9	
Weight	Approx. 17 kg	

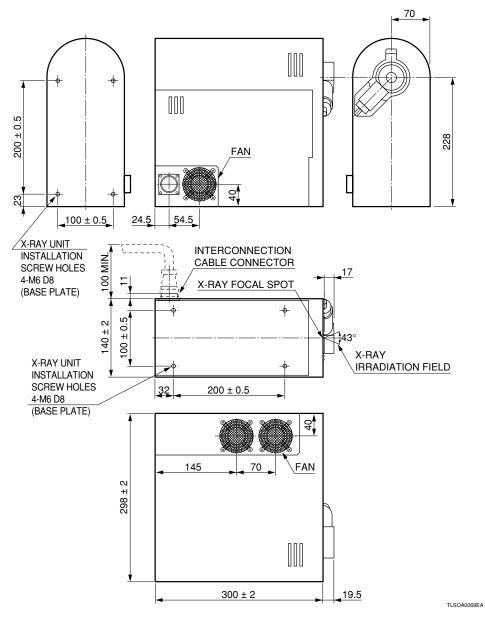
NOTE: (a) Without moisture condensation.

■X-RAY CONTROL UNIT

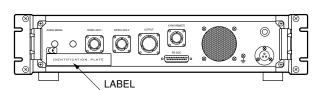
Parameter	Description	
Function	Target Voltage/Current	
	Pre-set, Auto Warm-up	
Protection	Safety Interlock	
External Control	RS-232C	
Operation /Storage	0 to +40 °C	
Temperature	0 10 +40 C	
Operation/Storage	85 % RH Max. [@]	
Humidity		
Power Consumption	Less than 240 W	
Inter Voltage	24 Vdc	
Installation Method	Designed for both bench-top	
Installation Method	and rack mounting	
Weight	Approx. 5 kg	

DIMENSIONAL OUTLINE (Unit: mm)

X-RAY TUBE UNIT



X-RAY CONTROL UNIT UN VOLTAGE CURRENT X-RAY MODE (OVER 0 50 99 ± 2 X RAY O STANDED O AGING O с OPERATE PRE-SET Ô 426 ± 2 9 40 300 ± 2 9 2 482 ± 2



100 MIN.

11

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RELATED PRODUCTS

X-RAY IMAGE INTENSIFIER CAMERA UNIT C7716, C7716-10

The C7716 series X-ray image intensifier (I. I.) camera unit now offers greatly improved X-ray detection efficiency even at low energy levels. This improvement stems primarily from a built-in X-ray image intensifier having an extremely thin aluminum input window. Its thickness is only 0.3 mm or less, virtually at the limit of present technology providing excellent X-ray transmit-tance and low scattering.

The results are sharp, clear, high-quality images taken at low energy X-ray levels down to several keV which penetrate plastic (PET) materials.

X-RAY IMAGE INTENSIFIER CAMERA UNIT C7876, C7876-10

The C7876 is an X-ray image intensifier camera unit ideal for non-destructive inspection of light-element materials and radiation imaging at low-energy X-ray levels.

The C7876 remarkably improves X-ray transmittance at low-energy X-ray levels by using a beryllium window instead of the aluminum window currently used for most X-ray image intensifiers.

The result is a sharp and clear, high-contrast image taken in real time even at low energy X-ray levels down to a few keV.





A PRE-CAUTION TO USE

- 1. X-ray emitted from this device is harmful for human body. And it should be necessary for the operator to protect himself/herself from it.
- 2. During an operation, the X-ray tube unit should be installed in the X-ray shielded cabinet in order to avoid any X-ray leakage. Also the safety interlock system in X-ray control unit should be always used in order to avoid any misoperation.

WARRANTY PERIOD

This device is guaranteed for one and a half years from data of purchase or 5000 hours of operation, whichever comes first. The warranty extends only to replacement of the products. The warranty does not cover damage due to misuse or natural calamity.

* C E This product(s) conforms to the EMC directive (89/336/EEC) of the European Union.

* To meet FDA standards, the Interlock-1 circuit incorporates a relay that shuts off the X-ray generation power supply circuit if the circuit is open.

Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult with our sales office. Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are subject to change without notice. No patent rights are granted to any of the circuits described herein. ©2000 Hamamatsu Photonics K.K



HOMEPAGE URL http://www.hamamatsu.com

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