

XRD-EP Power Supply for XRD Digital X-Ray Detectors



Description

The enhanced power supply XRD-EP is a stand-alone unit to support the XRD 512-400 series, the XRD 1640 series including ES versions, and the XRD 1620 series. The power supply supports 100 V to 240 V at 47 Hz to 66 Hz. An LED display indicates the status of the device.

The XRD-EP Power Supply is distinguished by its rugged design, versatility, and low ripple- and humming voltage. The output voltages are stabilized across the load using voltage-sensing connections.

When used with the XRD-EP power supply, all detectors of the XRD 1640, XRD 1640 ES and XRD 1620 series fulfill the medical grade requirements of UL 60601-1 and EN 60601-1 certification.

Application

- Radiotherapy Simulation and Portal Imaging
- Non-Destructive Testing
- 3D CT Reconstruction
- Scientific & Medical Applications

Features:

- Supports all XRD 512-400 X-Ray detectors
- Supports all XRD 1640 X-Ray detectors
- Supports all XRD 1620 X-Ray detectors
- Rugged Design
- Tolerates wide range of main voltages
- Voltage sensing to compensate for voltage drop across cable
- Unlimited short circuit protection



Cable and Connectors



Fig. 1 XRD-EP AC cable (US 115V)



Fig. 2 XRD-EP DC Cable (10 wires)



Fig. 3 XRD-EP DC Adapter (10 wires to 5 wires)

Environmental Considerations

	Transportation / Storage ^{*1}	Operation
Ambient temperature	-10° to +70°C	+0° to +70°C Derating > 50°C: 2.5%/K
Relative humidity ^{*2}	5% to 90%	5% to 90%

^{*1} In original transport box

^{*2} No condensation

Technical Specification

Mechanical Dimensions

Length	291 mm
Width	100 mm
Height	180 mm
Weight	6,56 kg

Electrical Specification

Input	100 Volts – 240 Volts AC 47 Hz – 66 Hz 3,3 Ampere max; 200 Watts
Output	5,5 Volts / 5 Ampere DC 12,5 Volts / 5 Ampere DC -12,5 Volts / 5 Ampere DC
Internal Fuse	4 Ampere / 250 Volts

Accessories

95510254	Power Supply PKI-EP
95510321	XRD-EP DC Cable 25 FT / 7.6 M
95510322	XRD-EP DC Cable 50 FT / 15.25 M
95510323	XRD-EP DC Cable 16.5 FT / 5 M
95510324	XRD-EP DC Cable 100 FT / 30.5 M
95510320	XRD-EP DC Cable Adapter
95510331	XRD-EP AC Cable EP – D
95510332	XRD-EP AC Cable EP – US
95510333	XRD-EP AC Cable EP – JP
95510334	XRD-EP AC Cable EP - UK

Regulatory Requirements

The Power Supply XRD-EP complies to the EN 60601-1 and UL 60601-1 regulatory requirements

For more information e-mail us at opto@perkinelmer.com or visit our website at optoelectronics.perkinelmer.com
All values are nominal; specification subject to change without notice.

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