

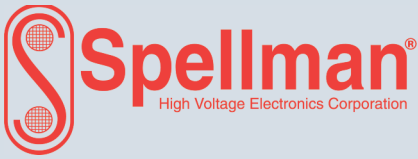


SPELLMAN INDUSTRIAL X-RAY SYSTEMS

XRV SERIES

1.8kW—6.0kW X-Ray Sources





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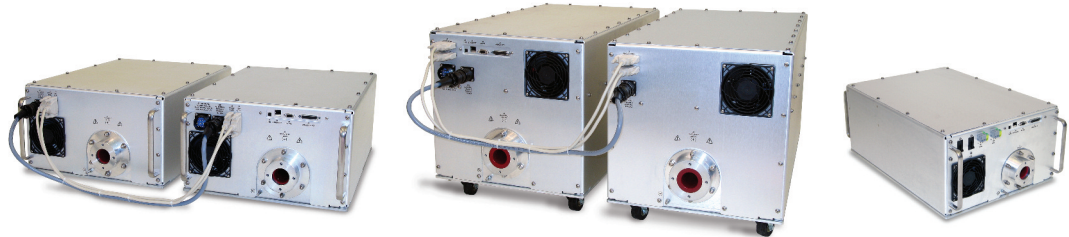
Spellman's XRV Series has set new standards for non-destructive testing imaging systems for aerospace, defense and industrial NDT applications

Dependable power for efficient, high resolution X-Ray inspection



XRV225

When it comes to dependable HV power for X-Ray applications, Spellman High Voltage leads the way. No other manufacturer builds a more reliable, efficient, stable, or compact X-Ray Generator. Offering negative, positive or bipolar output ranging from 160kV to 450kV, Spellman can deliver an ideal solution for a wide variety of applications.



XRV320

XRV450

XRV160

- 160kV to 450kV, negative, positive or bipolar output configurations
- Adjustable arc count, quenching and ramping speeds protect X-Ray tubes
- Lightweight, compact
- The use of terminal blocks for installation offer quick set-up and replacement times
- Dual filament power supplies drive all conventional metal ceramic X-Ray tubes
- Power factor corrected AC input circuitry
- Custom OEM configurations

AUTOMOTIVE

AEROSPACE

MANUFACTURING

DEFENSE

AVIATION

SECURITY CARGO
SCANNING

SECURITY BAGGAGE
INSPECTION

MEDICAL X-RAY

INDUSTRIAL X-RAY

ANALYTICAL X-RAY

NDT/INSPECTION

MEDICAL
STERILIZATION



Call or visit our website to inquire about an X-Ray NDT solution with the worlds' leading XRV generators.

Performance.

LOW RIPPLE... HIGH STABILITY

Industry best stability and output ripple specification provide consistent output (kV & mA) for longer scans, reduced banding and improves data quality.

CUSTOMIZABLE ARC MANAGEMENT

Arc detection in < 5uSec, plus integrated current limiting protects your tube. Response and recovery to arc events are fully customizable allowing you to adjust the system to your specific testing requirements.

FAST DIGITAL CONTROLLER

The XRV utilizes a DSP based microcontroller to monitor and control critical tube and generator parameters. This helps ensure accuracy, repeatability, and dose stability throughout the XRV Series.

Reliability.

DESIGN VALIDATION

Industry leading reliability and MTBF. Environmental stress screening, electrical overstress, extended arcing and HALT compliance further support the XRV's industry leading levels of reliability. Testing conducted on X-Ray tube loads and beta testing in multiple applications.

ENCAPSULATION

The XRV's oil free design eliminates leaks and environmental concerns. The encapsulated dielectric high voltage section made of our proprietary large-pour formulation provides significantly higher dielectric strength than oil, is more forgiving of field stresses, and eliminates the maintenance and biohazards associated with oil tanks.

Flexibility.

COMPACT & LIGHTWEIGHT

The XRV Series models small footprint and light weight offer additional flexibility and logistical options.

PLUG-N-PLAY COMPATIBILITY & EASE OF USE

DSP based SMT control circuitry provides your choice of USB, Ethernet and RS-232 along with analog interfaces simplifying OEM system integration.

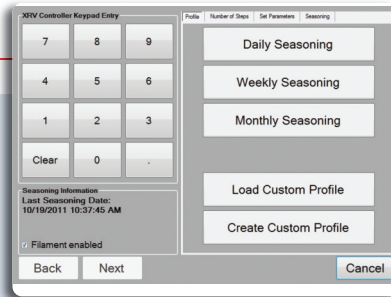
SERVICEABILITY

The XRV Series has a unique modular design, with four Field-Replaceable Units (FRUs) that minimize MTTR, service inventory and overall repair cycle time. A trouble-shooting tree and fault indicators simplify problem detection for faster, more accurate servicing. Global technical support ensures swift worldwide response to any service requests

XRV Controller

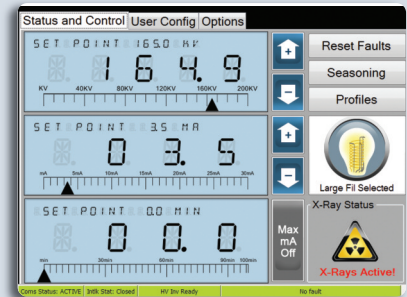
The XRV Controller (XRVC) provides intuitive, touch screen driven programming and control of any of Spellman's popular XRV Series of X-Ray generators. This sophisticated and robust controller was designed using an embedded computing system running a custom Graphical User Interface (GUI).

The GUI embedded computer and ancillary hardware are housed in a rugged 5.25 inch tall (3U) rack mount chassis. Capability of the XRVC include: creation of custom X-Ray tube seasoning profiles, one shot or continuous user fabricated operational profiles, automatic X-Ray tube configuration and much more.



Tube seasoning screen

Comprehensive status/control screens provide information on all critical operational parameters and system status indicators.



Status and control screen

- Designed and system matched
- Specialized warmup programs offer optimized tube performance and lifespan
- Select X-Ray tubes automatically configure the system with required operational profiles
- Create, save and load customized one shot profiles
- Timed or continuous exposure modes
- Configuration menu for user options
- Fault and status monitor
- Easy set up and integration



Available in bench top or standard 19" rack mount configurations



631.630.3000
www.spellmanhv.com

Let us propose a solution ranging from a stand alone XRV to a complete turn-key X-Ray sub system designed to your specifications.

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