



**艾瑞特电气**  
X-Ray Technology

## 移动式X射线探伤机控制器

Mobile X-Ray Controller

- 艾瑞特 ART-200 控制器  
ART-200 Controller
- Spellman XRVC 控制器  
XRVC Controller



**丹东艾瑞特电气有限公司**

Dandong X-Ray Technology Co., Ltd

## 艾瑞特 ART-200 控制器

- 根据停机天数自动训机。
- 管电流、管电压及曝光时间显示与设置。
- 通过触摸屏或者旋钮调节管电流和管电压。
- 射线管（冷却油入口处或出口处）温度值实时显示，超温保护。
- 可以预设100组曝光参数。
- X射线管保护功能，包括：灯丝电流限制、大灯丝和小灯丝功率保护和最高电压和最大电流限制功能。
- 多种故障显示及保护功能，包括：打弧故障、逆变器故障、灯丝故障、管头过温故障、铅门开故障。

### 高级的控制器功能

- PLC 控制
- 触摸屏显示
- 保护功能齐全，减少误操作的损害
- 操作方便快捷

## ART-200 Mobile X-Ray Controller

- Automatic seasoning according to the down time.
- Tube current,tube voltage and exposure time can be set and display.
- Tube current and tube voltage can be set by touch screen or rotating knob.
- The temperature of the tube can be real-time display and save from OT (over temperature)
- 100 sets of exposure parameters can be preset.
- Tube protections: filament current protection,filament power protection, max.voltage protection, max.current protection.
- Fault Alarm Display and protection system:striking arcing fault, inverter fault ,filament fault ,over -heated fault,lead door fault.

### Advanced Controller Functionality

- PLC Control.
- Touch-screen display.
- The functions of preventing the false operation of device.
- Easy to operate.

## 系统面板



- 电源指示灯：电源通电时，指示灯亮。
- 安全指示灯：系统辅助设备正常时，指示灯亮。
- X射线指示灯：X射线通电时，指示灯亮。
- 训机指示灯：训机状态时，指示灯亮。
- KV旋钮：在系统高压开机状态下，旋转KV旋钮，增加或减少KV控制值。
- mA旋钮：在系统高压开机状态下，旋转mA旋钮，增加或减少mA控制值。
- X射线开机按钮：在系统大、小焦点参数设定画面按动X射线开机按钮，系统开机。
- X射线关机按钮：在系统运行画面按动X射线关机按钮，系统关机。
- 钥匙开关：OFF位置，系统关机。

Stand-by位置，待机状态。

ON位置，系统可以开机。

## System Panel

- |                              |                      |
|------------------------------|----------------------|
| 1.电源指示灯——Power Indicator     | 6.mA旋钮——mA Knob      |
| 2.安全指示灯——Safety Indicator    | 7.X射线开机按钮——X-Ray On  |
| 3.X射线指示灯——Ray Indicator      | 8.X射线关机按钮——X-Ray Off |
| 4.训机指示灯——Seasoning Indicator | 9.钥匙开关——Key Switch   |
| 5.KV旋钮——KV Knob              |                      |

● Power Indicator : The indicator lights up when the current is switched on.

● Safety Indicator : The indicator light will shine when the equipment in normal operation.

● Ray Indicator: The indicator light will shine as raying.

● Seasoning Indicator: The indicator light will shine as seasoning.

● KV Knob: Increase or reduce KV.

● mA Knob: Increase or reduce mA.

● X-Ray On: Press X-Ray On, the unit will send out rays.

● X-Ray Off: Press X-Ray Off, the unit will stop sending out rays.

● Key Switch: OFF——Press OFF, the system will shutdown

Stand-by——Standby mode

ON——Press ON, the system will start up

技术参数

SPECIFICATIONS

输入电压 Input Voltage:	180-264V, 50/60Hz
尺寸 Dimensions:	48H x 58Wx 55Dcm
管电压步长 Tube Voltage:	0.1KV , 20-450KV , 4 bit
管电流步长 Tube Current :	0.01mA , 0- 30 mA , 4 bit
温度范围 Temperature Range:	工作 Operating: 0° C to +50° C 存储 Storage: -20° C to +80° C
湿度 Humidity:	0% to 95% RH



训机屏

Seasoning Screen



大焦点 Large Focus



小焦点 Small Focus

## Spellman XRVC 控制器



- 英特尔原子N270CPU @1.6千兆赫
- 1GB内存
- 7” 触摸液晶屏@800 X 600
- 英特尔945快速图表算法
- 10/100/1000兆以太网
- 遥感技术RS232串行端口
- 160GB内部硬盘驱动器

### 软件特点

- 紧凑的，在中心区域触摸屏的操作环境
- 提供集成的虚拟屏幕操作键盘，给操作带来丰富的输入能力（没有外接键盘）
- 适配的软件，检测XRVC控制器和相应的配置
- 动态反馈使控制单元能够实时观测输出的情况

## Spellman Mobile X-Ray Controller

- INTEL ATOM N270 CPU @ 1.6GHZ
- 1GB RAM
- 7” TOUCH SCREEN LCD @ 800 X 600
- INTEL 945 EXPRESS GRAPHICS
- 10/100/1000MBIT ETHERNET
- RS 232 SERIAL PORTS
- 160GB INTERNAL HARD DRIVE

### Software Features

- Designed for compact, touch centric environment
- Integrated on screen keyboard provides rich input capabilities for operation without an external keyboard
- Adaptive software detects XRVC controller and configures accordingly
- Dynamic feedback allows control of unit with real time viewing of the output

## 高级的控制器功能

### 训机

- 具有创建、保存和装载用户定制的训机界面的能力（包括默认界面）。
- 实时训机进程监视，运行时间和剩余时间显示。
- 当必须进行训机时的自动提醒通信。
- 经由RS 232串口与XRVC 发生器通信。
- 经由直接交叉以太网或者经由以太网网络交换器与XRVC发生器进行通信。

### 单次曝光界面

- 具有创建、保存和装载用户定制的单次曝光界面。
- 在与XRVC型发生器单元进行连接的操作里具有界面验证的能力。

### X射线管的选择

- 指定的X射线管的配置会自动地与厂家推荐的操作界面相一致。
- 选定的X射线管经自动配置后能上载到XRVC型控制器上。

### 操作简单

- 直观的，中心触摸屏式的菜单驱动系统允许操作者不用学习就会使用。
- 通信的参数设定是由XRVC 控制器进行的，只需要一堂配置课即可学会。
- 综合的状态/控制屏可提供所有的运行参数和系统状态信息

## Advanced Controller Functionality

### Seasoning

- Ability to create, save and load customized seasoning profiles (Default profiles are included)
- Real time seasoning progress, elapsed time and remaining time clocks
- Automatic notice when seasoning is required

### Communications

- Ability to communicate with the XRVC over RS 232 serial port
- Ability to communicate with the XRVC over a direct crossover Ethernet connection or Ethernet switch

### One Shot Profiles

- Ability to create, save and load customized one shot profiles
- Verification of profiles within the operating capabilities of the connected XRVC unit

### X-Ray Tube Selection

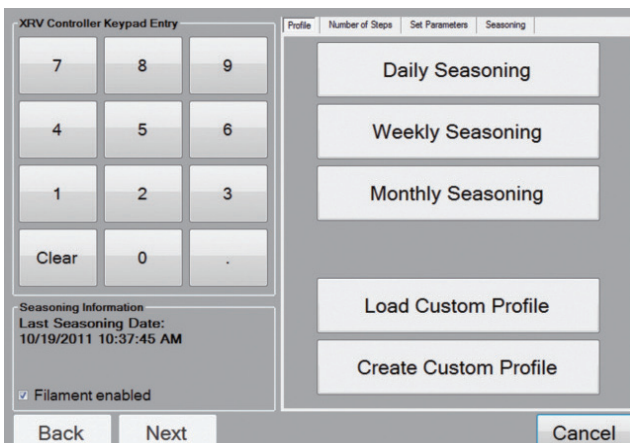
- Specific X-Ray tubes automatically configures the system with the recommended manufactureres operational profiles
- Supported tubes for automatic configuration can be uploaded into the XRVC

### Easy to Use

- Intuitive, touch-centric, menu driven system allows operator use with little to no learning curve.
- Communication settings are retained by the XRVC, requiring only a single configuration session.
- Comprehensive status/control screen provides information on all critical operational parameters and system status indicators.

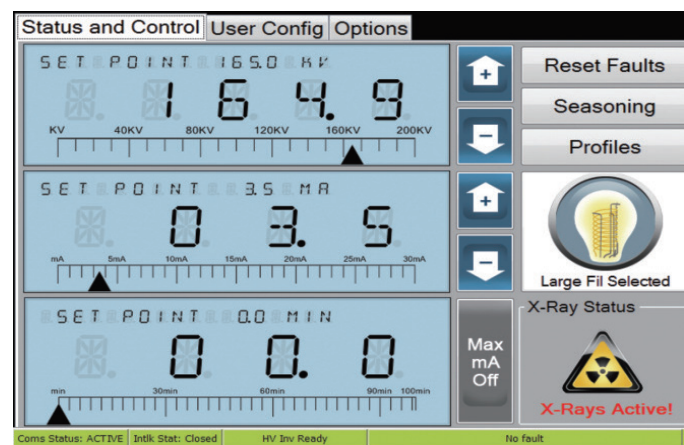
**技术参数 SPECIFICATIONS**

输入电压 Input Voltage:	180-264V, 50/60Hz
尺寸 Dimensions:	133.35H x 482.6Wx 330.2Dmm ( 5.25" H x 19" W x 13" D )
重量 Weight:	12磅-lbs ( 5.44 kg )
输入电源连接器 Input Power Connector:	14针圆形连接器 类型97-3102A-22-19P
	14 pin circular connector type 97-3102A-22-19P
温度范围 Temperature Range:	工作 Operating: 0° C to +50° C
	存储 Storage: -20° C to +80° C
湿度 Humidity:	0% to 95% RH
冷却 Cooling:	对流风冷 Convection cooled



**训机屏**  
**Seasoning Screen**

**状态和控制屏**  
**Status and Control Screen**



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