

# POWERBO)



Fluorescent Displays and CANNON MIL connectors.

It is supplied with 90 to 264 VAC mains voltage, which is selector free. Light yet robust, it offers a multi-working positions handle and a highly intuitive multilingual menu. Furthermore, it is shockproof, safe and reliable, even in harsh cold, warm and dusty environments.

We are certain that the 'PowerBox' will change the way you perform RT inspections.



#### **KEY FEATURES**

- 90 to 264 V mains selector free
- Multilingual menu navigation
- 128 x 256 pixels VF Displays
- Constant power mode
- 5.000 records can be stored
- Exposure time calculator
- Soft customizable exposures
- Automatic preheating
- Rubber shock absorber
- Working temp range of -30°C to +55°C
- · Weighs 7.9 kg and IP65 protection class
- USB for monitoring & upgrade
- Full system monitoring
- Auto resettable fuses
- Fail-safe pilot lights
- Autodrive all SITEX CP
- MIL CANNON connectors

#### **EXCEPTIONAL PERFORMANCES**

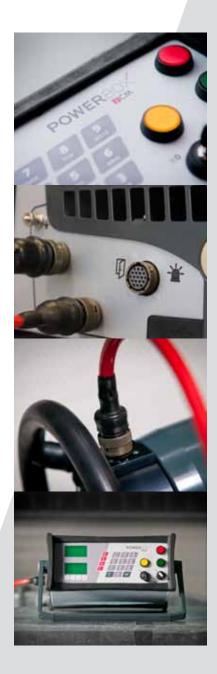
Let us help you better understand the technology breakthrough that ICM has achieved in releasing this new SITE-X CP range and the excellent performance it will deliver. You will discover that our CP200D tubehead, together with the lead cap, four diaphragms and its laser pointer. PLUS its 'PowerBox' and its two cables are - combined - LIGHTER than any single 200 kV CP tube head made by any of our competitors. And in most cases, they are MUCH LIGHTER.

However, we obviously did not design our systems only to be light. We also gave them the best duty cycle ever and we naturally decided to use our now tried and trusted highly reliable, selfdesigned and CrO2 coated X-ray tubes. These provide our customers with the very latest evolution of the ultra-high vacuum technology in the X-ray generation.

The 'PowerBox' control unit is not a minor component of the new system. It is one of the best!

Its broader power range (from 90V to 264 VAC) voltage selector free means that this small and robust control unit will operate from practically any mains power network worldwide. Alternatively, its 0.99 power factor means it can operate from any of the most commonly used light and low power generating sets available on the market.

Indeed, it will even be possible for the 'PowerBox' to take its energy from a car battery by simply using a small additional DC/AC converter.



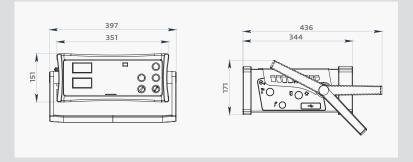


# **POWERBOX technical specifications:**

kV, mA, and time settings steps kV, mA, sec Exposure time range min, sec 1 secto 99 min 59 sec  Nes  Adjustable pre-warning time sec 3 ito 99  Pilot light indicators (Power ON, X-ray ON, Securities) Independent 'START' and 'STOP' push buttons 'No position safety key rotary switch Two position main rotary switch - Bual high brightness graphic Vacuum Fluorescent Displays (VFD) - Could high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high brightness graphic Vacuum Fluorescent Displays (VFD) - Dual high	Technical specifications	UNITS	PowerBox
Constant power mode Adjustable pre-warning time sec 3 to 99 Pilot tight indicators (Power ON, X-ray ON, Securities) Independent 'START' and 'STOP' push buttons Independent 'START' and 'STOP' push buttons Two position safety key rotary switch	kV, mA and time settings steps	kV, mA, sec	1, 0.1, 1
Adjustable pre-warning time  Pitot light indicators (Power ON, X-ray ON, Securities)  Independent 'START' and 'STOP' push buttons  Two position safety key rotary switch  Two position main rotary switch  Dual high brightness graphic Vacuum Fluorescent Displays (VFD)  Total number of languages, including Chinese, Japanese & Russian  Polyester alphanumeric keypad with sensory touch and sound effect  Preheating is function of selected kVs (kV max by default)  Exposure time calculator (material, FFD, film, density, kV, mA, time)  User-defined data enabling exposure time calculation  Programmable safety interlocks  Side panel USB port to enable monitoring and software update  Clear indication of the precise carrousel system position  Type of power supply  Supply voltage range - SELECTOR FREE - Auto resettable fuses  VAC  Supply frequency range - SELECTOR FREE - Auto resettable fuses  VAC  Supply frequency range - SELECTOR FREE  Input power factor when at full output  Ryc (Prom 45 to 66  Ryc (Prom	Exposure time range	min, sec	1 sec to 99 min 59 sec
Pilot light indicators (Power ON, X-ray ON, Securities)  Independent 'START' and 'STOP' push buttons  Two position safety key rotary switch  Two position main rotary switch  Two position main rotary switch  Poul high brightness graphic Vacuum Fluorescent Displays (VFD)  Total number of languages, including Chinese, Japanese & Russian  Total number of languages, including Chinese, Japanese & Russian  Polyester alphanumeric keypad with sensory touch and sound effect  Preheating is function of selected kVs (kV max by default)  Exposure time calculator (material, FFD, film, density, kV, ma, time)  User-defined data enabling exposure time calculation  Programmable safety interlocks  Gide panel USB port to enable monitoring and software update  Clear indication of the precise carrousel system position  Type of power supply  Jupit voltage range – SELECTOR FREE – Auto resettable fuses  VAC  Supply voltage range – SELECTOR FREE – Auto resettable fuses  VAC  Supply frequency range – SELECTOR FREE  Hz  From 45 to 66  Supply frequency range – SELECTOR FREE  Input current at full power, 230 VAC  Norking ambient temperature range  TC  -40 to +80  Working ambient temperature range  TC  -30 to +55  Protection Class  Weight  Position Standard  Arayon / Standard  Standard  1  Lead cap, laser, be window, etc  From 90 to 264  From 90 to 264  From 90 to 264  From 90 to 264  From 45 to 66  -60  Go  Go  40 to +80  Working ambient temperature range  TC  -40 to +80  Working ambient temperature range  Folication of -40 to +80  Working ambient temperature range  Folication of -40 to +80  Weight	Constant power mode	-	Yes
Independent 'START' and 'STOP' push buttons  - Yes  Two position safety key rotary switch  - X-ray ON / STANDEY  Two position main rotary switch  - Amin ON / OFF  Dual high brightness graphic Vacuum Fluorescent Displays (VFD)  - 2 (off) 64 pixels x 128 pixels each  Total number of languages, including Chinese, Japanese & Russian  Polyester alphanumeric keypad with sensory touch and sound effect  - Yes  Preheating is function of selected kVs (kV max by default)  Exposure time calculator (material, FFD, film, density, kV, mA, time)  User-defined data enabling exposure time calculation  Programmable safety interlocks  Side panel USB port to enable monitoring and software update  Clear indication of the precise carrousel system position  Type of power supply  - Mains, generator, battery (option)  Supply voltage range - SELECTOR FREE - Auto resettable fuses  VAC  From 90 to 264  Supply frequency range - SELECTOR FREE  Hz  From 45 to 66  Input power factor when af full output  Myorking ambient temperature range  'C -40 to +80  Working ambient temperature range  'C -30 to +55  Protection Class  Weight  Weight	Adjustable pre-warning time	sec	3 to 99
Two position safety key rotary switch  Two position main rotary switch  Dual high brightness graphic Vacuum Fluorescent Displays (VFD)  Total number of languages, including Chinese, Japanese & Russian  Polyester alphanumeric keypad with sensory touch and sound effect  Preheating is function of selected kVs (kV max by default)  Exposure time calculator (material, FFD, film, density, kV, mA, time)  User-defined data enabling exposure time calculation  Programmable safety interlocks  Side panel USB port to enable monitoring and software update  Clear indication of the precise carrousel system position  Type of power supply  Clear indication of the precise Carrousel system position  Type of power supply  Supply voltage range – SELECTOR FREE – Auto resettable fuses  VAC  From 90 to 264  Supply frequency range – SELECTOR FREE  Hz  From 45 to 66  Input power factor when at full output  %  99  Storage ambient temperature range  "C -40 to +80  Working ambient temperature range  "C -30 to +55  Protection Class  Weight  Weight	Pilot light indicators (Power ON, X-ray ON, Securities)	-	3
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Dual high brightness graphic Vacuum Fluorescent Displays (VFD)  Total number of languages, including Chinese, Japanese & Russian  Polyester alphanumeric keypad with sensory touch and sound effect  Preheating is function of selected kVs (kV max by default)  Exposure time calculator (material, FFD, film, density, kV, mA, time)  User-defined data enabling exposure time calculation  Programmable safety interlocks  Side panel USB port to enable monitoring and software update  Clear indication of the precise carrousel system position  Type of power supply  Amins, generator, battery (option)  Supply voltage range – SELECTOR FREE – Auto resettable fuses  VAC  Supply frequency range – SELECTOR FREE  Hz  From 45 to 66  Input power factor when at full output  Menurent at full power, 230 VAC  A  6.0  Storage ambient temperature range  C  -40 to +80  Working ambient temperature range  From 45 to +55  Protection Class  From 90 to 254  From 90 to 264  From 90 to 264  From 90 to 264  From 45 to 66  From 90 to 264  Fro	Two position safety key rotary switch	-	X-ray ON / STANDBY
Total number of languages, including Chinese, Japanese & Russian  Polyester alphanumeric keypad with sensory touch and sound effect  Preheating is function of selected kVs (kV max by default)  Exposure time calculator (material, FFD, film, density, kV, mA, time)  User-defined data enabling exposure time calculation  Programmable safety interlocks  Side panel USB port to enable monitoring and software update  Clear indication of the precise carrousel system position  Type of power supply  Supply voltage range – SELECTOR FREE – Auto resettable fuses  VAC  Supply frequency range – SELECTOR FREE  Hz  From 45 to 66  Input power factor when at full output  Morking ambient temperature range  "C  -40 to +80  Working ambient temperature range  Frotection Class  Weight  Kg  7.9	Two position main rotary switch	-	Main ON / OFF
Polyester alphanumeric keypad with sensory touch and sound effect  Preheating is function of selected kVs (kV max by default)  Exposure time calculator (material, FFD, film, density, kV, mA, time)  User-defined data enabling exposure time calculation  Programmable safety interlocks  Side panel USB port to enable monitoring and software update  Clear indication of the precise carrousel system position  Type of power supply  Supply voltage range – SELECTOR FREE – Auto resettable fuses  VAC  From 90 to 264  Supply frequency range – SELECTOR FREE  Hz  From 45 to 66  Input power factor when at full output  Meinst current at full power, 230 VAC  A  Storage ambient temperature range  "C  -40 to +80  Working ambient temperature range  Protection Class  Kg  7.9	Dual high brightness graphic Vacuum Fluorescent Displays (VFD)	-	2 (off) 64 pixels x 128 pixels each
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Exposure time calculator (material, FFD, film, density, kV, mA, time)  User-defined data enabling exposure time calculation  Programmable safety interlocks  - 3  Side panel USB port to enable monitoring and software update  - 1  Clear indication of the precise carrousel system position  Type of power supply  - Mains, generator, battery (option)  Supply voltage range - SELECTOR FREE - Auto resettable fuses  VAC  From 90 to 264  Supply frequency range - SELECTOR FREE  Hz  From 45 to 66  Input current at full power, 230 VAC  A  6.0  Storage ambient temperature range  C  -40 to +80  Working ambient temperature range  Kg  Kg  7.9	Polyester alphanumeric keypad with sensory touch and sound effect	-	Yes
User-defined data enabling exposure time calculation  - Standard  Programmable safety interlocks - 3  Side panel USB port to enable monitoring and software update - 1  Clear indication of the precise carrousel system position - Lead cap, laser, be window, etc  Type of power supply - Mains, generator, battery (option)  Supply voltage range - SELECTOR FREE - Auto resettable fuses VAC From 90 to 264  Supply frequency range - SELECTOR FREE Hz From 45 to 66  Input power factor when at full output % 99  Input current at full power, 230 VAC A 6.0  Storage ambient temperature range C -40 to +80  Working ambient temperature range Frotection Class - IP65  Weight  Kg 7.9	Preheating is function of selected kVs (kV max by default)	-	Fully automatic
Programmable safety interlocks - 3 Side panel USB port to enable monitoring and software update - 1 Clear indication of the precise carrousel system position - Lead cap, laser, be window, etc  Type of power supply - Mains, generator, battery (option) Supply voltage range – SELECTOR FREE – Auto resettable fuses VAC From 90 to 264 Supply frequency range – SELECTOR FREE Hz From 45 to 66 Input power factor when at full output % 99 Input current at full power, 230 VAC A 6.0 Storage ambient temperature range °C -40 to +80 Working ambient temperature range °C -30 to +55 Protection Class From 45 to 66 From 90 to 264 Fro	Exposure time calculator (material, FFD, film, density, kV, mA, time)	-	Standard
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Supply voltage range – SELECTOR FREE – Auto resettable fuses  Supply frequency range – SELECTOR FREE  Hz  From 45 to 66  Input power factor when at full output  %  99  Input current at full power, 230 VAC  A  6.0  Storage ambient temperature range  °C  -40 to +80  Working ambient temperature range  °C  -30 to +55  Protection Class  Kg  7.9	Clear indication of the precise carrousel system position	-	Lead cap, laser, be window, etc
Supply frequency range – SELECTOR FREE Input power factor when at full output % 99 Input current at full power, 230 VAC A 6.0 Storage ambient temperature range °C -40 to +80 Working ambient temperature range °C -30 to +55  Protection Class Kg 7.9	Type of power supply	-	Mains, generator, battery (option)
Input power factor when at full output  Note: The power factor whe	Supply voltage range – SELECTOR FREE – Auto resettable fuses	VAC	From 90 to 264
Input current at full power, 230 VAC  Storage ambient temperature range  °C  -40 to +80  Working ambient temperature range  °C  -30 to +55  Protection Class  - IP65  Weight  Kg  7.9	Supply frequency range – SELECTOR FREE	Hz	From 45 to 66
Storage ambient temperature range  °C -40 to +80  Working ambient temperature range  °C -30 to +55  Protection Class  - IP65  Weight  Kg 7.9	Input power factor when at full output	%	99
Working ambient temperature range °C -30 to +55  Protection Class - IP65  Weight Kg 7.9	Input current at full power, 230 VAC	А	6.0
Protection Class - IP65 Weight Kg 7.9	Storage ambient temperature range	°C	-40 to +80
Weight Kg 7.9	Working ambient temperature range	°C	-30 to +55
	Protection Class	-	IP65
Dimensions 251/M/ v151/LU/ v244/D)	Weight	Kg	7.9
Ullielisions 331 (W) X 131 (H) X 344 (D)	Dimensions	mm	351 (W) x 151 (H) x 344 (D)



## **Dimensions**



### **Optional accessories**

- External fail-safe audible / flashing warning system
- External fail-safe flashing warning system
- "STORMCASE" transport system
- 20 m extension interconnection cable (up to 5x to reach 100 m)
- Single interconnection cable customized up to 100 m in length
- 10 m interlock cable for 3 door programmable contacts
- 1.5 m USB cable to enable monitoring and software upgrade
- Car battery / 220 VAC converter

## Standard delivery features

- Bag to store cables and safety accessories
- 10 m universal mains voltage power supply cable (1.1 kg)
- 20 m interconnection cable (4.3 kg)
- Exposure time calculator software

#### **Certifications**

- CE certified
- NFC74-100 Bureau VERITAS LCIE certified
- PTB certified
- Manufactured under ISO9001/2008 certified quality management system

