

# SITEX SCU2.0

## STANDARD CONTROL UNIT



## PORTABLE X-RAY GENERATOR CONTROL UNIT

**Increase the reliability of on-site X-ray techniques while decreasing their costs**

### KEY FEATURES

- 90 to 264 V mains selector free
- Multilingual menu navigation
- 2 x 20 characters display
- 5.000 records can be stored
- Exposure time calculator
- Soft customizable exposures
- Automatic preheating
- Rubber shock absorber
- Working temp range of -25°C to +55°C
- Weighs 14.6 kg and IP65 protection class
- Fail-safe pilot lights
- Autodrive all SITEX

### PERFORMANCE

To guarantee the accuracy of the radiological parameters the **SCU2.0** has a system for direct measurement of the high voltage delivered by the X-ray generator. Based on this data the control system maintains the stability of milliamperes and kilovolts to within  $\pm 0.5\%$  in any selection range.

Because they are virtually exempt from fluctuations in the power supply, **SITEX** units offer a totally constant quality of exposures.

Its broader input range (from 90 V to 264 VAC) voltage selector free means that this robust control unit will operate from practically any mains power network worldwide. Alternatively, its 0.98 power factors means it can operate from any of the most commonly used light and low power generating sets available on the market.

### OPERATOR INTERFACE

The front panel is made of high-strength polyester film which incorporates a sensory-type 16-key keypad. Pilot lights, powering-on, interlock switching, "START" and "STOP" functions are provided by broad and robust indicators, switches and push buttons. A high brightness display, protected by an anti-reflection screen, gives all the useful information in the language of your choice.

RMS and peak voltages, frequency of the power supply, date and time, internal temperature, choice of language or the time zone can be called up or updated from the keypad.

A freely programmable system of access codes at three levels (supervisor, operator and service engineer) limits the access to certain functions. Disconnectable if necessary, this security system is non-active by default (except for the servicing functions).

### DATABASE

All the radiological parameters of exposure are memorised by operation of a single key : kilovolts, milliamperes, exposure time, film type, focus-film distance, type of materials, controlled thickness and density of the film.

Future search for the optimum exposures will be based on a specific test case and will no longer necessarily be determined by the recall of an abstract serial number which moreover is impossible to memorise.

# SCU2.0 technical specifications :

SUPPLY CHARACTERISTICS	UNITS	SCU2.0
Supply voltage range	VAC	90 to 264
Supply frequency range	Hz	45 to 66
Maximum input power	KVA	2
Cos(phi) / power factor at full power 230VAc	-	0.98 / 0.98
Type of power supply	-	Mains, generator set, inverter
<b>MEASURES AND REGULATION</b>		
KV accuracy	%	± 0.5
mA accuracy	%	± 0.5
KV selection step	KV	1
mA selection step	mA	0.1
Time selection step	s	1
Timer range	min:sec	00:15 to 99:59
<b>WEIGHT, DIMENSIONS AND ENVIRONMENT</b>		
Operating weight	kg	14.6
Overall size	mm <sup>3</sup>	355 (W) x 157 (H) x 525 (D)
Operating temperature range	°C	-25 to +55
Storage temperature range	°C	-40 to +80
Ingress protection	-	IP65
<b>CONTROLS AND DISPLAY</b>		
System	-	Industrial PC boards
Control of mains voltage and frequency	-	Yes
Control of ambient temperature	-	Yes
Logging of shots's history	-	Yes
Pre-warning time	s	3 to 99
Pilot light indicators	-	3 (green, red, yellow)
Independent START and STOP buttons	-	YES
Two positions safety key rotary switch	-	STANBY – X-RAY
Two position main rotary switch	-	Mains ON-OFF
Vacuum Fluorescent Display	Line x char.	2 x 20 with anti-reflection screen
Available languages	-	EN, FR, DE, IT, ES, TR, FI, PL, RU

## DATABASE

Memory capacity of standard exposures	5000 (ext. => 20000)
Exposures parameters capable of being memorised	KV, mA, time, film, FFD, thickness, film density, materials
Search for standard exposures according to selection criteria	yes / (=> 7 criteria)
Memory capacity of executed exposures	5000 (ext. => 20000)
Software for automatic calculation of exposure time	option

