

Pocket exposure assistant

PEX is the first module of a complete range of products oriented to Safety, Measurements and Quality improvement tools.

PEX is the ideal companion for every Field Radiographer but also for Lab applications.

This unit has been developed to provide all the necessary tools all along the Radiographic exposure and even until the processing of the film; in a single small compact ergonomic casing. Menu operation is a kid's game as only one central mini Joystick is driving you all through operations with the use of a single thumb.



Eliminates the risks of retakes due to calculation errors

How many times did you have to retake an exposure because of a wrong calculation? If only once; it is too much in the era of computers!

The most frequent source of errors is the use of approximate values given by unverified charts or incomplete information input while computing manually with a slider. This has a direct effect on the quality of service you give to your customer and also on your production margins. A PEX is the unique answer to your worries.

Made by radiographers with a team of experienced electronic engineers, this compact unit is holding all constants and data necessary to give you the right exposure time. Extremely easy to use you can use it like you would use a standard phone thanks to the simplicity of menu sequences that are organized efficiently and logically to the work you have to perform: just follow the screen indications and you will get used to the manipulation in less than 5 minutes after your purchase. Built in flash memory is allowing you to update your PEX firmware with new standards and data to keep on getting reliable results even if surrounding variable are changing (films; X ray units, ...)

Reduces the number of small equipment needed

When the exposure has been calculated, your PEX will be used as a countdown timer both for exposure but also for film processing with a dual channel timer and an audible warning when the time has elapsed.

PEX can display values in actual (SI) or former (MKS, Imperial) units but as a tool it also contains a real unit converter for conversions of main units used in radiography.

Isotope database is another feature built in your PEX. When you operate with multiple sources on field, it is important to know what is, at the current date, the activity of the isotope used. Your PEX has the ability to store data of up to 5 different sources at the same time. Set the type, identification, loading date, and initial activity and your PEX will calculate on a day by day basis the activity of the source you use.

Your PEX displays the date and time and is equipped with a backlight that makes the reading of messages easier.

Specifications

Mechanical		
Size	mm	96 x 47 x 24
	Inch	3,78" x 1,85" x 0,94"
Weight	g	50 (without battery)
Protection		IP41
Quality assurance		CE manufacturing process

Electrical	
Power supply	2x Standard AAA batteries
Autonomy (typical)	> 6 months (3 hours continuous operation a day without LED)
Display	102x80 pixels Graphics
Memory	Built in

Computing material	
Isotopes	¹⁹² Ir, ⁶⁰ Co, ⁷⁵ Se, (¹⁶⁹ Yb, ¹⁷⁰ Tm, ¹³⁷ Cs and others are optional)
Database	Up to 5 individual sources
Calculation limits	Up to 20 types of films (extendable) Up to 3 materials (Steel, Cu, Al) other optional
	Optical density 1,5 to 3,5
	3 X-Ray sets BALTOSPOT range
Calculation typical accuracy	5% (depends on processing)

Units	
Distances	mm, inches
Activity	Ci, GBq
Converter tool	According to SI standard recommendation

Misc.	
Countdown timer	Three channels independent, Start-Pause-Stop
Timer accuracy	1 second
Connectivity	RS232 connection for software and data upload USB optional
Warranty	Limited 2 years carry in

Producer

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