

PEGASUS

Portable Gamma Survey Meter



*detection
monitoring
radiation*

PEGASUS (NHL) is a hand-held survey meter for ambient dose measurement.

It provides accurate measurement over wide dose rate range from background level.

FEATURES

- High sensitivity
 - ✓ Wide range of measurement from background level 0.01 $\mu\text{Sv/h}$ to 99.99 mSv/h (1 $\mu\text{R/h}$ to 9.999 R/h)
 - ✓ Advanced model (NHL4) measures more wide range from 0.001 $\mu\text{Sv/h}$ to 99.99 mSv/h (0.1 $\mu\text{R/h}$ to 9.999 R/h)
- Light weight and small size, < 1/2 lb and easy to carry
- Ease of operation with single hand, easy operation for anyone with big buttons
- Dust and Water proof, reliable for outdoor measurement (Water resistant IP54)
- Data output function, transmit the measurement data to PC by connecting USB cable
- Other function
 - ✓ Both digital and analog dose rate indications
 - ✓ Operable by optional rechargeable battery as well as standard AA battery
 - ✓ GPS unit (Model: NHL4)



PEGASUS

SPECIFICATIONS

Model	NHL3 (not available in US)	NHL4 (US model)
Name	PEGASUS	PEGASUS Pro
Radiation detected	Gamma (X) rays	Gamma (X) rays
Detector	Silicon semiconductor detector	CsI(Tl) scintillator detector and Silicon semiconductor detector
Energy Range	50 keV to 6 MeV	50 keV to 6 MeV
Measurement Range		
Dose Rate	0.01 μ Sv/h to 99.99 mSv/h	0.1 μ R/h to 9.999 R/h 0.001 μ Sv/h to 99.99 mSv/h
Accumulated Dose	0.001 μ Sv to 99.99 mSv	0.1 μ R to 9.999 R 0.001 μ Sv to 99.99 mSv
Energy Response	$\leq \pm 30$ % (60 keV to 1.5 MeV, ¹³⁷ Cs reference)	
Accuracy	$\leq \pm 10$ % (1 μ Sv/h to 99.99 mSv/h)	$\leq \pm 10$ % 10 μ R/h to 9.999 R/h (0.1 μ Sv/h to 99.99 mSv/h,
Angular Response	$\leq \pm 25$ %	$\leq \pm 25$ %
	(Horizontal Vertical $\pm 90^\circ$: ¹³⁷ Cs except Battery direction)	
Time Constant Setting	Standard Deviation Fixed mode or Time Constant Fixed mode switchable Time Constant 3 level setting (3 seconds, 10 seconds, 30 seconds)	
Display	STN Monochrome LCD	
Indication Data	Digital and analog Indication of current dose rate, Maximum dose rate, Accumulated dose, Alarm setting value, Battery Indication and Time Indication	
Sound Function	Counting and Alarm sound (Internal speaker or earphone)	
Power Supply	Standard AA Batteries (LR6) x 2 cells Alkaline or Nickel-metal-hydride (USB supply, recharging possible)	
Battery Lifetime	≥ 72 hours	≥ 48 hours
	(Continuous operation, when counting sound OFF, communication function OFF)	
Communicating Functions	USB	USB, GPS (Positioning)
Operating Temperature	-20 °C to +50 °C	
Operating Humidity	≤ 95 %RH (Non-condensing)	
Degree of Protection	(IP Code) IP54	
Size	Approx. 2.4 x 1.1 x 4.7 in. (60 x 27 x 120 mm)	
Weight	0.44 lb. (200 g) excluding Batteries	
Compliance Code	JIS Z 4333 (2006)	

