



**FOR PROFESSIONALS IN LAW ENFORCEMENT AND HOMELAND SECURITY**

**PERSONAL RADIATION DETECTORS WITH IDENTIFICATION**  
**PM1703MA/PM1703GNA**  
**GAMMA/GAMMA-NEUTRON PAGERS**



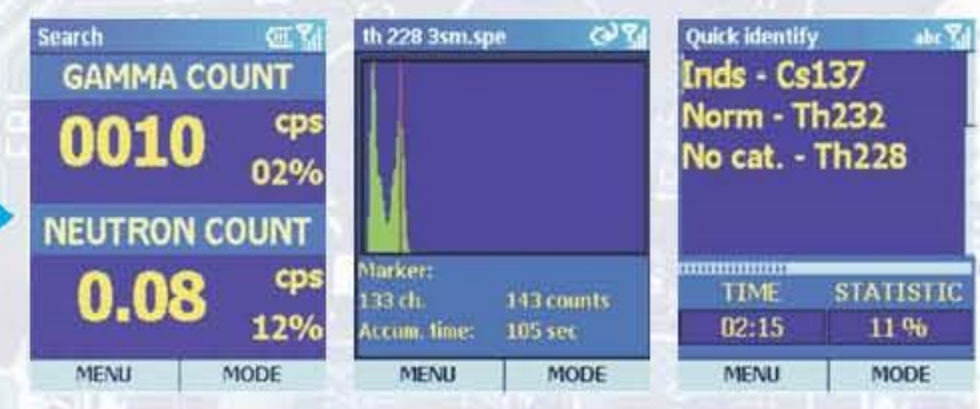
The **PM1703MA/PM1703GNA** are the first in the world unique gamma / gamma-neutron pagers of the new generation, which are capable to detect the small amounts of radioactive and nuclear materials including the weapon ones. Using the instruments, it is possible to identify these materials.

The use of the PM1703MA/PM1703GNA may prevent inland illicit trafficking of radioactive sources and prevent terrorist actions with radioactive and nuclear materials.



**Bluetooth communication**

**IRDA compatible**



- ALARM**
- LOCATION**
- IDENTIFICATION**
- MEASUREMENT**

**ISO 9001**

**Features**

- CsI(Tl) and LiI(Eu) scintillation detectors
- Easy to use, two-buttons operation
- Doesn't require any special knowledge
- Bluetooth & IRDA communication
- USB interface
- Audible, light and vibration alarms
- Non-volatile memory
- Shockproof hermetic case
- Low EMI interference from portable radio and cell phones

**Application**

- First responders
- Customs and Border Patrol
- Police
- Emergency teams
- Law enforcement
- HazMat teams
- Security guards

**Versions**

- PM1703MA - gamma
- PM1703GNA - gamma-neutron
- Options: Radionuclide identification using Bluetooth communication with external Pocket PC or smartphone

The instruments meet detection criteria as per ITRAP / IAEA recommendations and ANSI 42.32 Standard



## PERSONAL RADIATION DETECTORS WITH IDENTIFICATION PMT1703MA/PMT1703GNA GAMMA/GAMMA-NEUTRON PAGERS

	PM1703MA	PM1703GNA
<b>Detector</b> - gamma - neutron	CsI(Tl) -	CsI(Tl) LiI(Eu)
<b>Response time (time to alarm) at dose rate</b> increase by 0.5 $\mu\text{Sv/h}$ for 0.5 s produced by Cs-137, Am-241, Co-60 at the radiation background 0.2, 0.6, 1 $\mu\text{Sv/h}$ (ANSI 42.32), no more	2 s	
<b>Time to detect Cf-252 neutron source</b> with neutron radiation equal to 2.5 $\text{cm}^2 \text{s}^{-1}$ in detection point when the instrument is placed on phantom, no more	-	2 s
<b>Energy range</b> - gamma - neutron	0.033 - 3 MeV -	0.033 - 3 MeV 0.025 eV - 14 MeV
<b>Range of dose equivalent rate</b> (at collimated Cs-137 radiation)	0.01 - 100 $\mu\text{Sv/h}$	
<b>Accuracy of dose equivalent rate</b> (at collimated Cs-137 radiation, In the range 0.1 - 70 $\mu\text{Sv/h}$ )	30%	
<b>Count rate indication range</b> - gamma - neutron	1 - 9 999 cps	1 - 9 999 cps 0.01 - 999 cps
<b>Power supply</b>	one AA battery	
<b>Battery lifetime</b> if LCD backlight, Bluetooth and alarms are used no more than 5 min/24 h	no less than 800 h	
<b>Radionuclide identification using Bluetooth communication with external Pocket PC or smartphone:</b> - Special nuclear materials - Medical radionuclides - Naturally occurring radioactive materials (NORM) - Industrial radionuclides	U-233, U-235, Np-237, Pu; Ga-67, Cr-51, Se-75, Tc-99m, Pd-103, In-111, I-123, I-131, Tl-201, Xe-133  K-40, Ra-226, Th-232, U-238 Co-57, Co-60, Ba-133, Cs-137, Ir-192, Tl-204, Ra-226, Am-241	
<b>Operating conditions:</b> - temperature range - relative humidity (at 35°C) - pressure	-30 ... +50°C up to 98% from 84 up to 106.7 kPa	
<b>Protection degree of case</b>	IP65	
<b>Drop test on concrete floor</b> (with cover)	1.5 m	
<b>Weight (with battery)</b> , no more than	200 g	250 g
<b>Dimensions</b>	100 x 72 x 35 mm	

Design and specifications of the device can be changed without further notice.



For more  
Information visit...

