# Survey Meter
# SVM-8600



## Survey Meter
## SVM-8600

SVM-8600, Survey Meter developed by SFTechnology, can be used to detect radioactivity and contamination using both Semiconductor and GM-Tube at the same time which is the technology applied the first time ever in the world.

Low and high doses of α, β, χ, γ-rays can be detected with quick response and high precision.



SVM-8600

SVMR-8500

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**SFT**echnology. Co., Ltd.

# Survey Meter

## SVM-8600

- CDMA, GPS Monitoring capabilities when moving radioactive materials by
- LAN using the Remote Area Monitoring distance
- Dual Sensor Using Low Dose, Dose response in both fast and precise measurement realization.
- Radiological Performance Test: Korea Atomic Energy Research Institute
- Localized Products
- Apply the first domestic semiconductor sensors
- Excellent α, β, x, γ-ray sensitivity of the reaction
- Bar-Graph displays the radiation dose by
- Backlight
- The current value of the fixed function
- PC using the Exposure Management and Monitoring



SVM-8600

## Applications

Transport of radioactive materials, nuclear workers in nuclear power plants, nuclear laboratories, nondestructive testing, 119 Rescue, civil defense organizations, fire department, hospitals, defense, anti-terrorism group, Parents

## Radiological

**display units**
- dose rate : Sv/h (uSv/h, mSv/h, Sv/h), R/h (uR/h, mR/h, R/h), CPS and CPM

**measurement range**
- dose rate : 0.1 uSv/h to 1 mSv/h (0.01 mrem/h to 100 mrem/h)
- dose rate (Option : PIN Diode) : 0.1 uSv/h to 1 Sv/h (0.01 mrem/h to 100 rem/h)

**display**
- dose rate : 0.01 uSv/h to 1 mSv/h (0.001 mrem/h to 100 mrem/h)
- dose rate (Option : PIN Diode) : 0.01 uSv/h to 1 Sv/h (0.001 mrem/h to 100 rem/h)

**linearity**
- dose rate : <± 15 % up to 1 mSv/h (100 mrem/h)
- dose rate (Option : PIN Diode) : ± 15 % up to 1 Sv/h (100 rem/h)

**accuracy :** <± 10 % ($^{137}$Cs, at 100 uSv/h)

**energy**
- X and Gamma energy range : 30 keV ~ 6 MeV
- X and Gamma energy measurement range : ±20%, 50 keV ~ 3 MeV (at $^{137}$Cs)

**angular :** <± 20 % ($^{137}$Cs, 0° ~ 60°)

**detected radiation**
- Alpha, Beta, X and Gamma ray

**detector**
- GM-Tube (End window type)
- Option : semiconductor

## Operating Software : SVM-pro 1.0



## Electrical and Mechanical

**power supply**
Two 'C' size 1.5 V Alkaline battery (Life time : > 2000 hours)

**audible :** 80 dB(A) at 10 cm

**size :** 150 × 90 × 40 mm

**weight :** 420 g (including battery)

**communication :** Infrared

**button :** 5 buttons (Power, Hold, Mode, Buzzer, Backlight)

**Function**
- 5 Digits
- Display the amount of radiation with Bar-graph
- Backlighting
- hold (dose rate)
- Battery monitoring

## Environmental

**operating temperature :** -10 °C to 50 °C (+15 °F to 122 °F)

**humidity :** 40 % to 90 %, RH, at 35 °C

**storage :** -25 °C to 70 °C

**vibration :** 2 g, 10Hz to 30 Hz, 15 min

**EMI / EMC :** IEC 61000-4-2, 3, 8



SVMR-8500

## Option

### Survey Meter Reader Reader

Radioactive substances (RI) transportation vehicles, waste vehicles, non-destructive testing center at the boiling moving vehicle or LAN Remote Monitoring and Management section using the radiation has been developed.
Portable wide Survey Meter Reader (SVMR-8500) and CDMA (Cord Division Multiple Access) feature GPS (Global Positioning System) functionality is built on SVM-8600 Display on Monitor and management is accomplished by storing them in DB.

## Specifications

**interface**
Survey Meter : LAN IR or RF Interface
Computer : RS-232 or RS-485
LAN or CDMA

**CDMA electrical spec**
DC Power input : DC 5V
Maximum current : 700mA
Power consumption : 4W (max)
RS-232 Interface (115.2kbps)
Audio Interface
LED Indicating status of the modem

**power :** DC 9 V Adaptor

**dimensions**
132 x 167 x 134 mm

**weight :** 1.8 kg




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To improve the performance of this product are subject to change without notice.