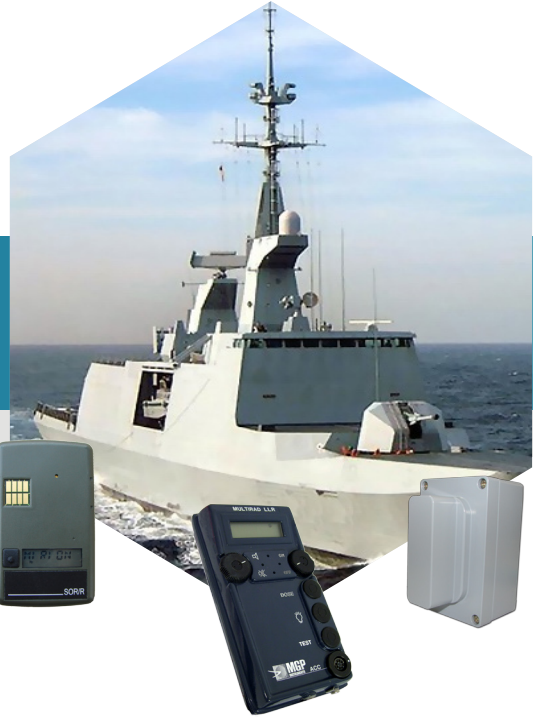




# RADIAC SYSTEM

for Naval Vessel



Nuclear  
Power



Healthcare



Homeland  
Security  
& Defense



Labs and  
Education



Industrial and  
Manufacturing

## OVERVIEW

This system is based on Radiac LLR probes connected to RADIVIEW management software operated from the NBC console. Individual dosimeters and portable survey meter can be also managed by the system.

## KEY FEATURES

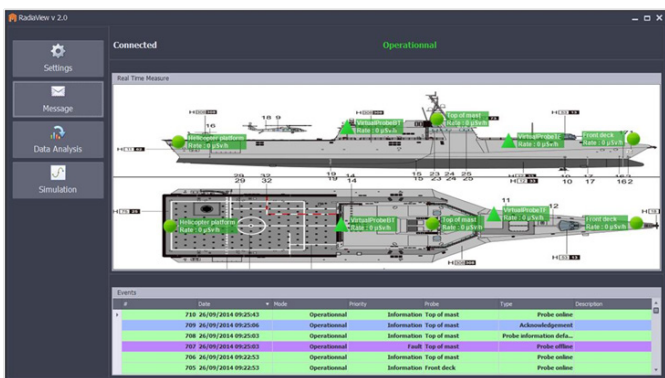
- Detection and warning of Nuclear radiation for ships operating in a NBC threat environment
- Complies with ANEP-57
- NATO references
- Real-time monitoring of the nuclear radiation hazard inside and outside the ship (airframe, decks, NBC filtration units)
- Operates fixed mounted and portable detection units
- Includes RADIAC software for data acquisition, display and warning at the NBC console
- Crew dose management
- Interface with the on-board integrated platform management system
- Open system, allows extensions

## SYSTEM DESCRIPTION

- Fixed-mounted  $\gamma$  smart probes for inside/outside measurements
- Portable doserate meters for  $\gamma$  radiations
- $\alpha$   $\beta$  contamination external probes (Multirad)
- Dosimeters (SOR) for crew with readers (XOM)
- RADIAC software in the NBC console

## RADIAC SOFTWARE

- Acquisition and real time monitoring of detection data
- Graphical presentation of measurements and probe status
- Local and remote display
- History of the measurements
- Crew member dose management
- Dose prediction by extrapolation of doserate information
- Operates under MS WINDOWS™ environment



- Periodic built-in test
- Programmable alarm thresholds
- Power supply: 18 to 32 VDC
- Networkable (RS 485)
- Operating range: -40° C to +60°C (-40°F to +140°F)
- Decontaminable
- Shock resistant MIL-S901D with shock absorbers
- EMC Compliant with MIL-STD 461
- Waterproof IP68
- Size: 125 x 80 x 145 mm (4.92 x 3.14 x 5.70 in)\*
- Weight: 915g (2,02 lb)
- Vibration resistant to MIL STD 167
- EMP and TREE resistant
- \* without mounting plate and shock absorbers

## SOR DOSIMETER (OPTION)

- Silicon detector
- Flash  $\gamma$  and neutron detection
- $\gamma$  residual detection
- Very small and light weight
- 1  $\mu$ Sv to 10 Sv dose range

## XOM READER (OPTION)

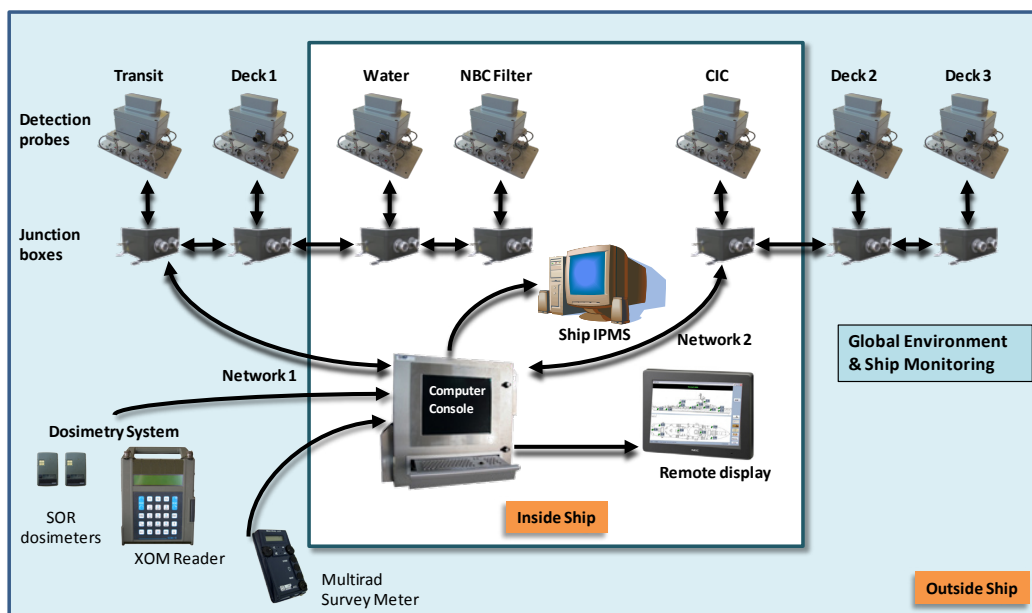
- Collection of data issued from the dosimeters
- Dosimeter allocation and configuration
- «Hands-free» data transmission with SOR dosimeter, even when worn under protective suits or clothing

## MULTIRAD SURVEY METER (OPTION)

- GM detectors
- $\gamma$  range: 0.1  $\mu$ Gy/h to 9.9 Gy/h
- External probes for measuring  $\alpha$  and  $\beta$  contamination

## PROBE CHARACTERISTICS

- Energy range: 50 keV to 1.3 MeV
- Doserate range: 50 nGy/h to 10 Gy/h
- Complies with IEC 532



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