

TECHNICAL SPECIFICATIONS

FEATURE	PARAMETER
Detector	YSO scintillator + SiPM
Type of Radiation Detected	Gamma; X-ray
Energy Range	20 keV–10MeV
Dose Rate Range	1 $\mu\text{rem/h}$ –1 rem/h (0.01 $\mu\text{Sv/h}$ –10 mSv/h)
Sensitivity	1170 cps/mrem/h (117 cps/ $\mu\text{Sv/h}$)
Energy Response	$\leq \pm 20\%$ (@20keV~3MeV)
Dose Rate Linearity	$\leq \pm 15\%$ up to 1 rem/h (10mSv/h)
Accuracy	$\pm 15\%$ ($\propto \text{Cs-137}$)
Alarm Threshold	User-set values for dose rate: 1 $\mu\text{rem/h}$ –1 rem/h (0.01 $\mu\text{Sv/h}$ –10 mSv/h)
Alert Options	Audible (80 dB at 12 in / 30 cm); visual (display)
Alarm Response Time	< 2 s
Overload Display	Activation when > 1 rem/h (10 mSv/h) Overload indication up to 10 rem/h (100mSv/h)
Display Units	Sv;Gy; rad; cps
Dimensions	\varnothing 6.89 in x 1.97 in (\varnothing 175 mm x 50 mm)
Weight	19.0 oz (540 g)
Operating Temperature	41–122 °F (5–50 °C)
Relative Humidity	$\leq 90\%$ (non-condensing)
EMI/EMC	Exceeds IEC 61526
FCC Compliance	FCC Part 15

PACKAGE CONTENTS

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RadWall-H	1
User guide	1
Power adapter	1
Qualified certificate	1

TROUBLESHOOTING

PROBLEM	SOLUTION
Unable to boot	Ensure power adapter is plugged in
Continuous alarm ringing	Confirm proximity to radiation source; check alarm threshold settings
Alarm not ringing near radiation source	Check alarm threshold settings

* If your problem cannot be resolved, please contact RAYCAN or your account administrator.

RadWall-H

Area Radiation Monitor



USER GUIDE



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RADWALL-H

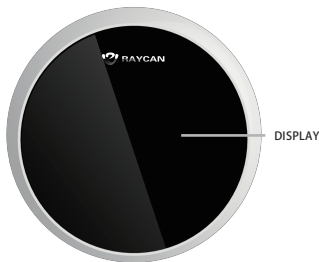
AREA RADIATION MONITOR

RadWall-H is a next-generation, all-digital area radiation monitor that combines three functions in one:

- Alarm and display unit
- Built-in scintillation detector
- Self-healing and self-forming mesh network capable monitor

RadWall-H has high detection accuracy, high sensitivity, fast response, and a high-resolution display, as well as other significant advantages. RadWall-H can be used as a standalone area radiation monitor, or multiple units can be combined to form a protected mesh network communicating via ZigBee. RadWall-H also includes the RadSys 2.0 software to accommodate applications of any size or complexity.

PRODUCT DIAGRAM



TOP



BOTTOM



Cable routing is included on the back of RadWall-H. The power cord can be tucked into the groove for better cable management.

OPERATING INSTRUCTIONS

Startup/Installation

Plug RadWall-H into a standard power outlet. Turn on power switch. The RAYCAN logo is followed by device ID, indicating active monitoring state.



Working Status

The device can issue overload indication, error warnings, and audible and visible alarms. When the absorbed dose rate exceeds the alarm threshold, red lights and sound will indicate danger.



Threshold Settings

The manufacturer default alarm threshold value is 1 mrad/h (10 µSv/h). The alarm threshold range can be set remotely via RadSys. Please check the RadSys software manual for more details.