

AVENGER ^{FIRE}

The Avenger^{FIRE} is a Fire Fighting Robot designed to support fire fighting operations where the risk to human life is perceived to be great for fire fighter intervention.

The Avenger^{FIRE} is an advanced robotic design and is straightforward to operate using a lightweight laptop-based console.

The Avenger^{FIRE} features a FORCE 50 Robotic Nozzle which has a maximum flow rate of 2000 lpm.

In addition, this FFR features a cooling system which effectively addresses the build-up of thermal radiation.



Avenger *FIRE*

Highlights

- Variable ground speed up to 8km/h
- Deploys FORCE 50 Robotic Nozzle
- Powerful Pan, Tilt & Zoom Camera
- Thermal Imaging identifying “hot spots”
- Thermal sensors within FFR
- Self-Protection Water Cooling
- Optional integrated Sensor Payloads
 - Gas and Air
 - Nuclide



Specification

PLATFORM

Dimensions (LxWxH):	1400mm x 450mm x 840mm
Weight:	122kg (Chassis & Nozzle)
Speed:	8km/h
Environmental protection:	IP66
Vertical obstacle:	300mm
Stair climb:	40°
Cameras:	3 built-in cameras
Illumination:	Spotlights, LEDs, IR LEDs and Thermal
Communication:	Point to Multi Point MIMO
Operating range:	500m LOS & 200m NLOS
Power Supply:	Set of three SLA batteries 36V
Working time:	4 hours (mission dependent)

FORCE 50 ROBOTIC NOZZLE

Degrees of Freedom:	110° vertical range of motion. 60° horizontal range of motion.
Material:	316 Stainless Steel
Inlet:	2" ANSI Flange
Maximum Flow:	2000 LPM
Maximum Throw:	Up to 65m
Normal Operating Pressure:	10 bar
Max Working Pressure:	12 bar

Note.: Every effort has been made to ensure the accuracy of this document, however this information is based on design and prototype activities and may change without notice.