TECHNICAL SPECIFICATIONS
EX-ROBOT

GENERAL SPECS

Weight	Dimensions	Driving time	Speed	Powder Coated Body	Operating ambient temperature	ATEX/IECEx Zone 1 certified
75 - 100kg *Depending on accessories*	950 x 690 x 555 mm (L x W x H)	90 - 120 minutes	0.8 meter/sec (2.5 km/hour)	to Customer's colour scheme.	from -20°C to 50°C	IIB (ethylene or similar)

MOBILITY
Integrated unit of high grade aluminium with:

Speed 2.5 km/hour

Skid steering on the spot

Range 1.5 km

Drives up and down 30 degree slopes

Drives up and down 20cm ledges

CAMERA MODULE
Integrated unit of high grade aluminium with 3 cameras:

Glass windows with nano coating for self-cleaning

Mixture of hi-resolution 18.1 mega pixel and lo-resolution 3.1 mega pixel cameras facing forwards, downwards and upwards

All cameras have digital zoom, point and click, snapshots and exposure control

LIGHT MODULE (OPTIONAL)
Integrated unit of high grade aluminium with 3 lights:

Three LEDs orientated in the same direction as the cameras

Each LED has 690 lumen output

TRACKS

Specialist anti-static tracks with excellent spot steering and step climbing abilities

MICROPHONE

Mono front facing microphone

BATTERY PACK

Ex enclosure containing three 12V 9 Ah lead crystal batteries

MAIN ELECTRONICS BOX
Ex enclosure containing a custom main board that integrates the robot's functions:

Intel Atom processor with Braswell 14 nm process technology, 4 cores, 8 Gb, 1,04 Ghz

2x STM 32bits processors to support main processor

Battery charger system and battery management system

Integrated sim-card or WiFi

GAS SENSOR OPTIONS

Ion Science Falco 1.1 for volatile organic compounds (VOCs)

Honeywell 3000 Mk II for toxic gases

Crowcon IR MAX for light hydrocarbon gases

INDUCTION CHARGER AND DOCKING STATION
Patented induction charger with:

Foreign object detection system

Inputs 24 VDC, 110 VAC, 120 VAC, 220 VAC or 240 VAC

Robot can also be supplied with a quick charge socket

4G LTE WIRELESS CONTROL SYSTEM

Dual band antennas that connect the robot to the control station using a public or private 4G LTE network

WiFi offered as an alternative to 4G

CONTROL STATION

The robot can be driven using laptop with a game controller or a smartphone

ATEX / IECEX ZONE 1 CERTIFICATION

⟨Ex⟩ II 2 G   Ex db eb ib mb qb IIB T4 Gb