

THOR EOD SUIT

Technical Specification

Please note: This technical specification covers not only standard EOD Suit specifications but also cost options. Please refer to your unique quote for the specific details of any options included. Some options may not be available in all markets.

EOD SUIT:

Part Number: EOD001201

Suit Construction Materials

Outer Cover: High Tensile Strength – Blast

Resistant Flame Resistant Nomex®/Kermel®

Velcro: External Velcro® fire resistant

Ballistic Materials: Aramid. Kevlar®/Twaron®

Blast Plates: Composite blast plate materials:

- VHH Armoured Steel, high-strength, low-alloyed structural steel
- UHMWPE laminate
- GRP laminate
- Aramid laminate

Visor: Hardened Acrylic/Polycarbonate

Cooling Suit: Fire Resistant Kermel®/Nomex®

Groin protector: Nomex IIIA outer

Multi layered aramid protective insert

Helmet

GRP Shell with elastomeric aramid core

Helmet liner: Multiple density layered closed cell foam for comfort and impact attenuation

Ventilation Fan: 0-220 lt/min

Cooling Suit

Part Number: EOD001204

Water Circulation Pump: 0-2.2 lt/min

Heat removal rate: 270 watt

Operation time: 35min at 45degree C ambient temperature

Suit Mass

Suit Medium 31Kg

Suit Large 34Kg

Suit X - Large 37Kg

Helmet with Visor 5Kg

Total Mass: See Individual Configurations

Suit Sizing

Suit Medium 165-175cm tall, operator mass 65-80kg

Suit large 175-185cm tall, operator mass 80-95kg

Suit X-large 185-195cm tall, operator mass 95-110kg

Auxiliary

NBC mask

PAPR Air Filtration

Sensor integration

1 off USB port for optional CBRNe sensor integration

Suit Protection

	Location	NIJ Location	.22 Cal 17grain FSP		.30 Cal 44grain FSP		.50 Cal 207grain FSP	
			NIJ REQ	HFS S 3+	NIJ REQ	HFS S 3+	NIJ	HFS S 3+
1	Blast Plates	A	N/R	1800+	1100	1200+	750	800+
2	Visor	B	775	794	N/R	N/R	N/R	
3	Helmet	C	625	656	525	621	N/R	
4	Trousers Rear	G	350	402	300	387	N/R	
5	Overshoes	F	525	602	500	509	N/R	
	Hand Protector							
	Helmet Beard							
	Sleeves Rear							
	Smock Back							
	Groin Protector							
	Collar Rear							
	Sleeves Front							
6	Collar Front	E	550	645	525	540	N/R	
	Smock Front							
7	Trousers Thigh	D	625	692	550	597	N/R	
8	Trousers Shin	F	525	573	500	514	N/R	
9	Collar Front Centre	N/R	N/R	892	N/R	N/R	N/R	
10	Knee	N/R	N/R	1082	N/R	N/R	N/R	

Suit Blast

	Explosive Charge	Standoff	Height	Chest overpressure reduction	Head overpressure reduction
1	567g of C4 (NIJ Test)	0.6m	0.77m	90%+	90%+

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Technical Specification

Control System:

Part Number: EOD001202

Arm Control Unit

Weight: 470g

Description: Ruggedized tablet IP67

Video resolution: 720 x 1600

Screen size: 6.5"

Cameras

Lens Angle: 120°

Type: Colour CCD

Resolution: 1920 x 1080p 30fps (2.1MP)

Sensitivity: 1000mV/Lux-sec (0.65V/lux-sec@550nm
Min Illumination)

Lights

White Light (LED): 640lm (variable intensity)

Red (LED): (variable intensity)

Battery

Recharge Time: 6 hours

Battery BT-70757Bx: 3.4Ah@24V & 6.8Ah@12V Li Ion

Battery Life: > 200 cycles @ C/5 to 80%
of initial capacity @ 100% depth of discharge

Battery Dims BT-70757Bx: 105mm x 37mm x 99mm

Battery Mass BT-70757Bx: 0.54kg

Mission Endurance

Battery: BT-70757Bx

Battery Life: 2-6 hours, mission dependant

Battery Charger details

Dimensions Charger

Length: 84mm **Width:** 56mm **Height:** 51mm

Power Supply: AC Adapter: AC 100V-240V 50/60Hz

Dimensions: Length: 132mm Width: 58mm Height:
30mm

Weight: 0.50 Kg

Power Requirements

100V-240V AC, 200 VA, 50/60 Hz

Environmental

Operating Temperature -20°C to +50°C (-4°F to +122°F)

Storage Temperature -40°C to +70°C (-40°F to +158°F)

Communications

Wireless Communications

Range: 800m (See Note 1)

IP Mesh Transceiver

Encryption: AES 128

Communication Method: OFDM

Power: Variable 0.1W to 1W

Frequency: 1.415GHz – 1.465GHz (Others by request)

Channel Spacing: 8MHz

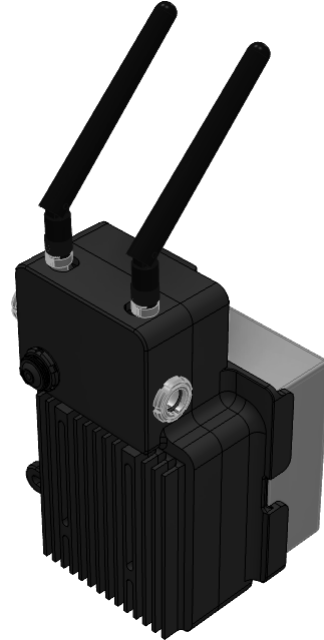
THOR EOD Operator Control Unit

Size: 160mm(L) 115mm(W) 95mm(D)

Weight: 1.6Kg (inc. battery)

Battery Type: BT-70757Bx

Description: Control station to send and receive audio to operator in suit. Can also be used as a separate radio node or to increase radio range.



Note 1: The radio range achieved will be dictated by the land topography between the nodes. Ranges quoted are for guidance only; distances vary according to terrain and obstructions. In many situations increasing antenna height can greatly improve signal strength. To achieve the stated distance, it may be necessary to raise all antenna to at least 3m height.

Hard Wired Communications

Fibre Optic Tether Cable: 200m

Fibre Optic Tether

Length: 450mm, **Width:** 210mm, **Height:** 145mm

Tether Length: 200m

Mass: 2Kg

Environmental

Storage: -30°C to +60°C

Operation: -20°C to +45°C

Degree of Protection: IP65,

Control System Plus:

Part Number: EOD001203

Operator Control Unit

Case Size: 490mm(L) 390mm(W) 185mm(D)

Weight: 9.52Kg (inc case), 5.2Kg

Description: Ruggedized tablet

Video resolution: 1920 x 1080

Screen Brightness: 1000 nits

Screen size: 11.6"