

## ALRAMLY MILITARY SUPPLIES



## **AlRamly Company**

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# 

KINGDOM OF SAUDI ARABIA



## We Represent



































## **CEO'S MESSAGE**

"The private business sector in the Kingdom of Saudi Arabia witnessed strong growth, turning to be the growth engine for the non-oil economy, in light of the developing market conditions and implementation of mega projects that are supported, encouraged and adopted by the Saudi government. The business sector has enjoyed since the inauguration of His Royal Highness Crown Prince Mohammed bin Salman bin Abdul Aziz in the Kingdom, and after the launch of the Kingdom's Vision 2030, a lot of support, motivation and encouragement, which paved the way, for the establishment of a private sector with a full-fledged and multifaceted discipline.

Since beginning operation in year 2005, AlRamly Company made a mark in the market as a provider of technologically superior products & services, maintaining a high degree of quality – meeting global standards. We take pride in representing our partners in our business, who are from various parts of the world, and are tested and approved by our customers for their cutting-edge technology and solutions.

We have grown in to a group of 11 companies providing service in the field of Military Supplies, Spare Parts, Security systems, Construction, General Trading, Software development, and Advertisement & Marketing. In everything we do, our moto is always to be in top 3 in terms of market leadership by acting as a solution provider to our customers in an economical manner.

We are now focused in localizing our products & services by bringing-in superior technology from across the globe, paving the way for local manufacturing which in turn helps in more local employment and in achieving goals set as per VISION 2030 ".

**Abdullah AlSuwayed** 

## VISION

"To become a market leader in our service segment through a diversified & solid investment strategy and by utilizing our resources to achieve utmost customer satisfaction, employee welfare and excellent partner relations".

## MISSION

"Partner actively with our customers to provide cutting edge technologies in an economic manner and help them achieve required performance capabilities, reduced costs and minimum risk

## **PURPOSE**

"Keeping a solution based approach with strong technical capabilities by partnering with global companies to provide problem solving solutions to our end users"

2005

AlRamly Trading Company 2008

Software Management Technologies 2010

AlRamly Security Equipment's Co 2018

AlRamly Media & Advertisement Co 2021

AlRamly IT & Cybersecurity Co

2021

AlRamly Cargo Services Co

2006

AlRamly Medical Supplies Co 2009

AlRamly Contracting Co 2018

AlRamly Spare
Parts Co

2019

AlRamly Military Supplies Co

2019

Major Shareholding AARDWARK GROUF 2021

AlRamly Fire & Safety Co

11

**Group Companies** 

20+

**Global Partners** 

70+

**Employees** 











## AARDVARK LANDMINE CLEARANCE

### **Overview**

Since 1982, Aardvark Land Mine Clearance Ltd has been designing and producing a variety of landmine clearance vehicles. The AMCS, is the latest model in the series, incorporating the lessons learned in world-wide operations in which many thousands of mines have been cleared. Aardvark is able to offer our proven technologies and experience to the design, development and integration of systems for landmine clearance vehicles and their operation.

## The Most Effective Landmine Clearing System in the World

Aardvark's multi-role dedicated landmine clearance flail, the AMCS, effectively clears anti-vehicle and anti-personnel landmines, either by detonation or disruption and operates in the majority of terrain and environmental conditions encountered in minefields throughout the world. Aardvark has been responsible for a range of highly successful mechanical minefield clearance machines, which are currently operating around the globe.

All Aardvark's systems are designed and built as dual-role Anti-vehicle and Anti-Personnel landmine clearance vehicles.



Aardvark maintains a policy of continuous machine improvement in all areas, including engine performance, flail depth, flail control and contouring, steering, driver safety, driver comfort, navigation and maintenance - all of which make the Aardvark and its latest variant, the AMCS, the most effective landmine clearing system available.

In all Aardvark's machines, total safety of the crew is assured. Aardvark is exceptionally proud of the fact that no crew member of an Aardvark has ever been injured or killed in mine clearing operations.





## AARDVARK AMCS SUPERIOR PERFORMANCE...



- Operator Survivability
- Machine Survivability
- Efficiency

### **Trials Performance**

Aardvark Flail Systems have undergone a number of operational, environmental and destructive trials, all of which have confirmed its effectiveness.

Survivability testing by the Dutch Army utilising live 26C1 AV mines placed under the tracks, wheels and cab, in addition to a DM31 bounding fragmentation mine placed perpendicular to the vehicle showed that, when detonated, no damage was done to the operator cab or engine compartments and no pieces of shrapnel or fragments from the bounding mine penetrated the steel plating of the cab, engine or the armoured glass of the cab.

The UK Ministry of Defence carried out a series of operational trials of the Aardvark system in different ground and vegetation conditions. The trials report stated "Aardvark performed well, clearing mines on the flat and on slopes. The overall percentage clearance rate was in line with UN expected standards of clearance".

Recent third party testing in line with CEN 15044 of survivability and performance of both the flail and prime mover have shown the exceptional ability of the Aardvark AMCS.



## Comprehensive Role

Mines come in many forms and some are designed for specific targets. The variety of types, size and mechanisms are only limited by the technology available. Today, they range from simple pressure mechanisms to sophisticated seismic activated devices. They can incorporate anti-handling devices, booby traps and self-destruct/neutralising mechanisms.

Aardvark has developed systems such as the SMCS (Surface Mine Clearance System) and the Airfield variant of the AMCS to be able to clear Scatterable munitions from hard, flat surfaces such as runways, taxiways and administration areas.









## DESIGNED BY FRONT LINE OPERATORS

Front line operators worldwide demand mine clearance and C-EO vehicles that have the operational capability to undertake tasks whilst the operators remain in a safe, stand-off location with either direct or remote overwatch.

GEN2 delivers outstanding operator safety, efficiency and clearance rates through the adoption of advanced robotic autonomous systems. GEN2 encompasses a comprehensive range of combat engineer tools including our world renowned and award winning auto contouring de-mining flail and a high precision robotic manipulator arm. The manipulator is controlled via a boom mounted heavy duty camera to assist in the identification and investigation of suspicious locations including disguised IED's, command wires and booby traps.

GEN2 is enhanced with a full suite of Aardvark FORSight™ and INSight™ C-EO residue and sub-surface EO detection sensors providing class leading stand-off detection and vehicle protection.

The platform has enhanced detection and situational awareness provision through the addition of the Aardvark auto deployable tethered UAV SM-Pro quadcopter with an untethered option for extended mission and closed circuit data transfer capability.



The Aardvark GEN2 is highly capable across a wide range of ground conditions and effectively delivers the ability to disrupt or destroy all anti-personnel and anti-vehicle landmines.

Delivering a 3m wide mine clearance path at 1.5 kmh to a depth of 300 mm to IMAS standards makes GEN2 the class-leading mine clearance vehicle on the market today.











## Speed and endurance

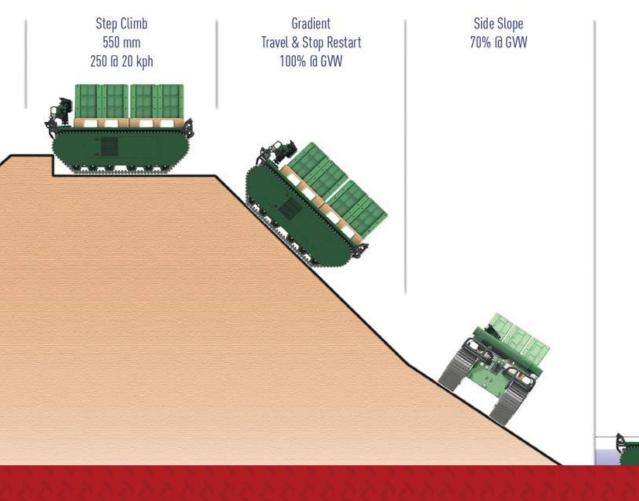
RANG-R has been designed for fast deployment and in base configuration is only 1.5 m wide with a kerb weight of 2250 kg. In "air assault" configuration, RANG-R can be underslung allowing for rapid deployment in support of standard and combat engineering tasks.

Tempo and endurance are key to successful operations and with a maximum speed of 70 kph, a range of 100 km and the capacity to operate for 72 hrs without the need for resupply RANG-R has been designed and built to meet those demands

## Width and weight

RANG-R has been designed with fast deployment in mind and in base configuration is only 1.5 m wide with a kerb weight of 2250 kg. In its air assault configuration, RANG-R can be underslung into forward areas allowing the rapid deployment of a range of capabilities from stand-off C-EO/C-IED protection, mine clearance and standard combat engineering tasks.





Fording 800mm + Splash No-Preperation



### Operator safety

Aardvark is justifiably proud of the fact that no operator has ever been injured or killed in mine clearing operations whilst using its equipment. Drawing on that history, RANG-R marks the next level of operator safety with the robotic capability to carry out logistic supply, mine clearance and C-IED roles whilst the operator remains in a safe environment.

## **Platform Survivability**

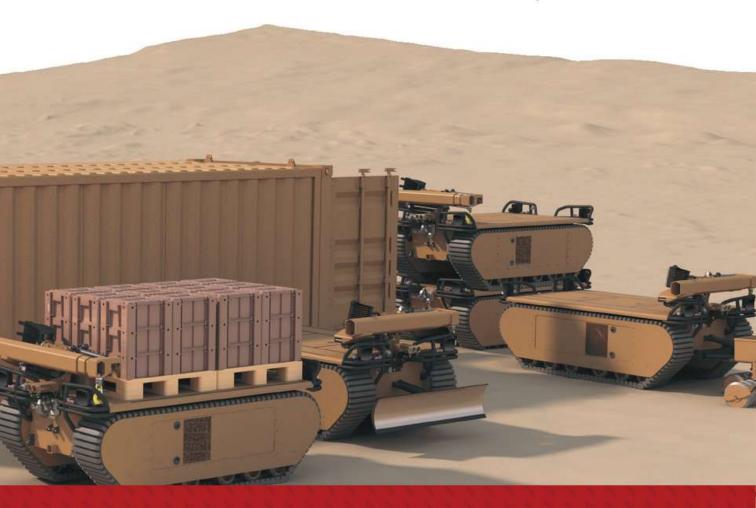
At the heart of RANG-R's design approach is vehicle survivability. The platform is capable of surviving a blast from a device of up to 8.8 kg of explosive. This high level of survivability serves to protect the mission allowing RANG-R to remain on task and provide protected mobility support in the most dangerous of environments.

By ensuring its ability to deliver the mission, RANG-R guards the investment in its capability and, importantly, ensures that it remains operational and integrated with the units and teams that it is designed to protect and support.



## Reliability

Aardvark is proud to have its mine clearance vehicles still in daily operation 30 years after their original deployment. The focus on reliability and ease of maintenance has been central to the development of RANG-R. Critically, RANG-R is designed to be maintained in the field, reducing life cycle costs and increasing the serviceability and availability of RANG-R to provide autonomous logistics support, protect borders or carry out C-EO mark and avoid operations.





# COUNTER-DRONE SYSTEM



## Mounted system in basic configuration



UAV Detection and passive rada







## **ENDURO**

Large-scale areas solution

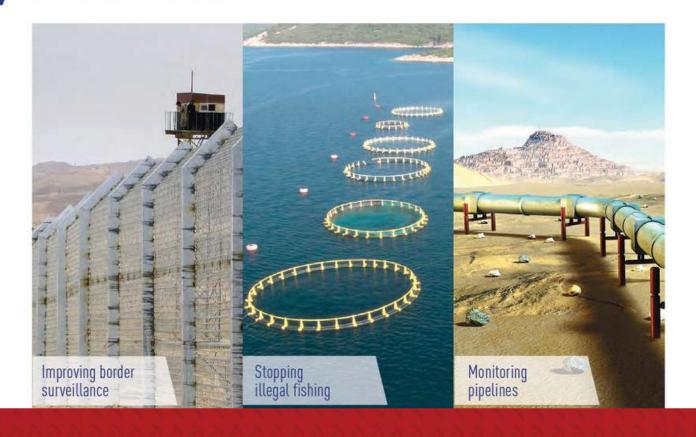




## LARGE AREAS



## **EXTENDED AREAS**





## PREVENTING WILDFIRES



## Solutions:

• Early fir detection



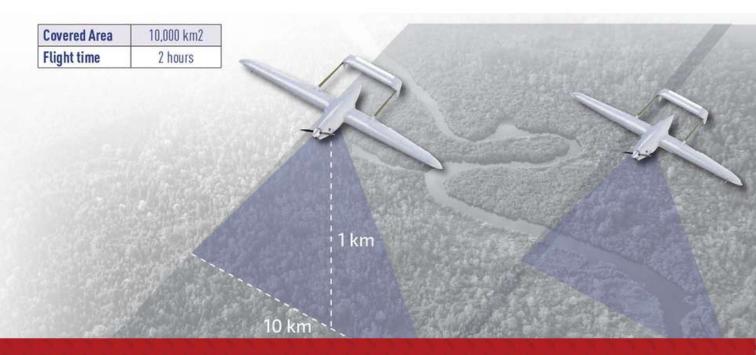
Total area burned 34.399 km2 in USA



55.911 wildfires per year



Suppression expenditures 974 mln USD/year





## OIL AND GAS PIPELINES MONITORING AERIAL PHOTOGRAPHY



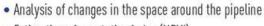
## Gyro-stabilised multi-sensor gimbal

### Photo camera:

- Day
- Infrared
- Multispectral
- Hyperspectral

## Solutions:

- Detection of potential illegal acts
- Assessment of the pipelines' technical condition









Pipeline length	200 km
Flight time	2 hours
Speed	120 km/h
FOV width	700-1000 m





## E-BIRD

Class leading performance in aerial intelligence gathering



Includes high-performance daylight payload module with built-in video camera. Gyroscopically stabilised in two axes. Variable optical zoom. Night vision payload module with built-in thermal camera and fixed optical zoom.

No	Name	Description	OTY
1	Z10x32 gimbal	Daylight payload module with built-in video camera gyroscopically stabilised in two axes with variable optical zoom.	3
2	T25x25 gimbal	Night vision payload module with built-in thermal camera gyroscopically stabilised in two axes with fixed optical zoom.	3
5	TM	Training payload module.	1

**Z10x32 gimbal** Daylight payload module



**T25x25 gimbal**Night vision
payload module









Class leading solutions for civil and military applications





## ADVANCED AERIAL SURVEILLANCE SYSTEM

UAV surveillance system consists of high-performance EO/IR gimbal, encrypted long-range Full HD video downlink and ground control station. In addition, video from UAV can be broadcasted to multiple portable video terminals within range of 50 km.





### COST-EFFECTIVE SOLUTION

- The UAV system is at least three times more affordable than similar systems on the market, meaning you get more drones
  for the same money.
- Reduce costs for trainings, maintenance and fleet operations by using unified drone platform for all your missions.



Police and law enforcement operations are supported with "eye in the sky" offering real-time situational awareness with reduced time and cost implications

## Recommended system configuration:

- 2 x VTOL drones for operations in urban areas
- 2 x EO/IR payload for day and night operations
- · Radio repeater or radio intelligence unit
- Cell phone catcher to locate individuals
- · Command and control software and server
- Remote video terminals to support ground teams

## **Advantages**



Plan law enforcement operations using real-time information



Rapidly deploy VTOL drone in urban environment



Traffic management

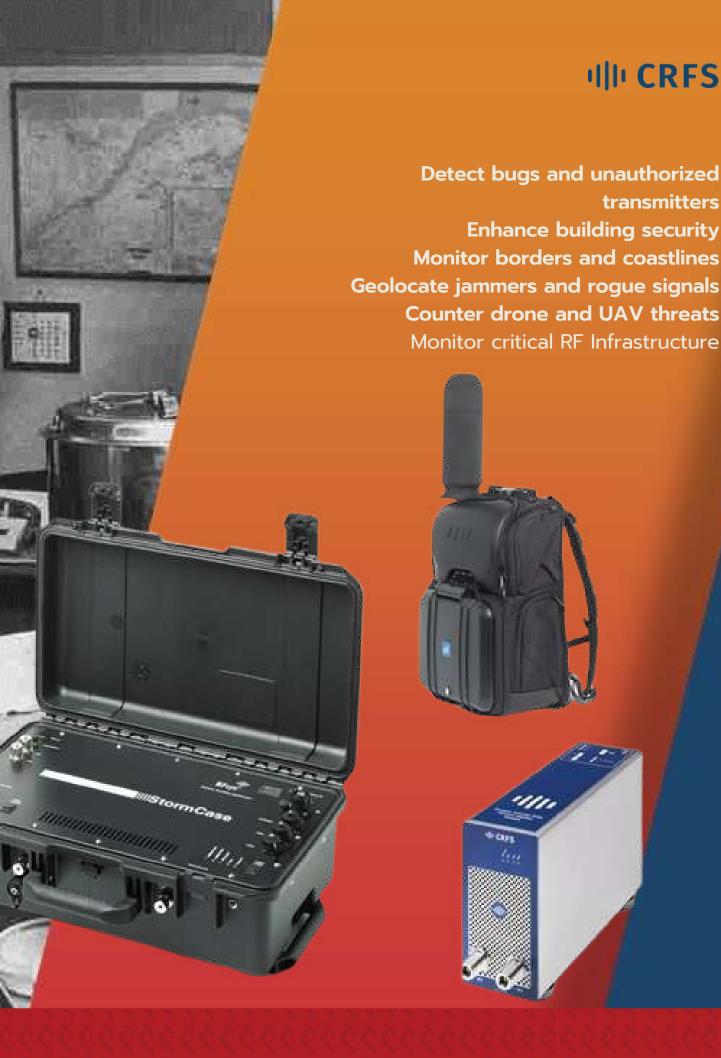


Use cell phone IMSI catcher to find individuals



# ıllı CRFS







## **GROUND TRAINING**

Train Like You Fight.

Cubic provides a vast array of services and solutions for comprehensive ground combat training and mission readiness exercises.

From real-time data collection and feedback to operational support and equipment, we design and develop a broad portfolio of systems and services for ground combat training that enables military and security forces around the world to "train as they fight," in a realistic battlefield environment.







## Tactical Engagement Systems

We offer myriad Tactical Engagement Systems designed to elevate, enhance, and seamlessly integrate with a variety of combat training exercises and situations. Our offerings realistically mimic real-world engagements in a safe and interactive environment.

## **MOUT**

Full-Spectrum Training in Urban Settings

Our Military Operations on Urban Terrain (MOUT) simulation is a turnkey live training solution that replicates the tactical complexities unique to urban terrain. MOUT simulations train and prepare military and law enforcement personnel to respond to and recover from urban-based conflicts. From single-story buildings to a complete city environment, MOUT is adaptable for a variety of urban complexities



## **EXCON & AAR Analysis**

Barlow Our Exercise Control
(EXCON)/After Action Review (AAR)
software systems (PC-compatible)
provides dynamic feedback on
training performance of a range of
ground combat training exercise
scenarios and applications,
including:

- Force-on-force
- Force-on-target
- Urban training
- Land navigation
- Emergency response

All of our systems are scalable and can easily be used on tablets and multiple workstations simultaneously.





### **CREW SERVED WEAPONS**

Cubic's live training offerings include simulated crew-served weapon systems. Using the same technologies as our simulated individual service weapons, designed to they are integrate seamlessly into exercise infrastructure to add further dimension to live forceon-force training. Our crew-served weapon systems are built to mimic both the complexity and weight of their realworld counterparts, allowing trainees to accurately carry out multi-person loading and transportation.







## **40MM** AMMUNITION



M385

This cartridge is a target practice and gun proofing round designed to simulate the M430 cartridge. It is fired from the 40mm Grenade Launchers M75 and M129, as well as the 40mm Machine Gun MK 19.



M430/M430A1

This cartridge is a dual purpose impact type round which is designed to penetrate at least two inches of steel armor at 0 angle of obliquity and inflict personnel casualties in the target area. It is fired from the 40mm Grenade Launchers M75 and M129, as well as the 40mm Machine Gun MK 19.



M433

This cartridge is a dual purpose impact type round which is designed to penetrate at least two inches of steel armor at 0 angle of obliquity and inflict personnel casualties in the target area. It is fired from the 40mm Grenade Launchers M79 and M203.



M918

This cartridge is a target practice round designed to simulate the M430 cartridge. It is fired from the 40mm Grenade Launchers M75 and M129, as well as the 40mm Machine Gun MK 19.



# MORTARS & MORTAR COMPONENTS

### **60mm Mortar High Explosive**

The 60mm Mortar High Explosive cartridges are designed for use with the M224 60mm Mortar System. These cartridges are designed to be effective against personnel, bunker and light material targets.



# 81mm Mortar -High Explosive & Training Practice

The 81mm Mortar High Explosive cartridges is a full range training round designed for use with the M252 81mm Mortar System. These cartridges are used against personnel, bunker and light material targets.

# **120mm Mortar** - **High Explosive and Smoke**

The 120mm Mortar High Explosive and Smoke (white phosphorous (WP)) rounds were developed for use in the M120 and M121 120mm Mortar System.



# ENER GETICS



### M112 Demolition Block

This block demolition charge is used for cutting, breaching and other explosive ordnance disposal activities. The charge is moldable and is especially suited for cutting irregularly shaped targets. The adhesive backing allows the charge to be attached to any flat, clean, dry surface.



### M58 & M59 Mine Clearing Charge

Engineer units employ the MICLIC in response to minefield breaching requirements. It is effective against conventionally fuzed mines and when detonated it provides a lane 8 meters by 100 meters. The charge is 350 feet long and contains 5 pounds per linear foot of Comp C-4 explosive.



### M231 & M232A1 MACS

MACS is a replacement system for 155mm propelling charges offering simplified logistics and reducing environmental impact at a lower cost. The MACS, a modular rigid propelling charge system, was developed for use in all currently fielded 155mm was developed for use in all currently fielded 155mm howitzer systems, both self-propelled and towed.



### 40 LB Demolition Charge

The 40 pound cratering charge is used for cratering and ditching operations. Because of the large amount of explosive in convenient form, they may also be used in destroying building and fortifications and overturning bridge abutments.





High Explosive Anti-Tank and Multi-Purpose with Tracer



# TANK Ammunition



The M830 cartridge is a high explosive multi-purpose cartridge which has anti-armor and anti-personnel capabilities. The M830A1 is a high explosive anti-tank and air defense multi-purpose, tactical service round with tracer. These cartridges are fired from the 120mm smooth bore M256 cannon.

# M865

Training Practice, Cone Stabilized, Discarding Sabot with Tracer



This cartridge is a kinetic energy target practice round and is for use with the 120mm smooth bore M256 cannon. It is designed to simulate the service round characteristics at reduced maximum ranges to allow practice firings on short range training areas.

# M1002

Multi-Purpose Anti-Tank, Target Practice with Tracer



This cartridge is a Multi-Purpose Anti-tank, Target Practice with Tracer (MPAT-TP-T) round for use in the 120mm smooth bore M256 cannon.

# M1028 Cannister Ammunition





These provide armor units with a quick lethal option at ranges between 200 – 500 meters. The round can be used to clear dismounted enemy, break up ambushes, stop infantry attacks and support up ambushes, stop infantry attacks and support friendly assault operations.





# **ARTILLERY**

M795 155mm

**High Explosive** 

The M795 projectile is utilized to provide conventional support fire for division/corps elements.

# **M107**

155mm - High Explosive

This projectile is fired from 155mm howitzers and is used for blast effect, fragmentation and mining.



# M395/M337A2

75mm & 105mm Blank

This cartridge is used for salutes and simulated fire.





DEFENSE PRODUCTS & SERVICES GROUP

# WUNDERBAR MARIE Articulating Vehicle Tow Bar

















DEFENSE PRODUCTS & SERVICES GROUP

# WUNDERBAR<sup>®</sup> Tow Bars and Mount Kits

This unique and innovative tow bar system delivers incredibly fast vehicle recovery speed—quicker than any other system available today. Light weight and easy-to-handle components deploy in seconds, reducing lifting injuries and saving lives in critical field situations.

The DPSG Wunderbar has been successfully field-proven by U.S. Army Special Forces in Afghanistan and around the world. Fully-articulating parts assemble and breakdown quickly, and stow on the bumper mount at the front of the vehicle grille. The stowage system is rated street legal on US roads, and has the advantage of not blocking the driver's vision.

Lighter and stronger than conventional tow bars, Wunderbar systems are available for a variety of applications, from 7K, 15K 20K, 40K, 80K, and 150K GVWR.

Strength, Safety and Speed!









80K Wunderbar(TM) shown on all vehicles below







Go online to watch the CBS News 60 Minutes video that inspired the Wunderbar design: "A Relentless Enemy" from the series "Lara Logan Under Fire"

http://www.cbsnews.com/video/ watch/?id=6902810n









- 1 hour flight time
- All weather Rain and Wind to 40 knots
- Dual HD 30 times zoom low light camera & 640x512 thermal
- Rapid Deployment (under 1 minute) with quick battery swap
- Single carry-all backpack with charger, remove, aircraft and 1 spare battery
- Wide operating temperature range
- Tethering System 48 hour, all weather, 360 foot cable Able to release in flight and aircraft can fly for another 30 minutes
- Transmission System Secure live video streaming from aircraft to anywhere in the world over mobile bounded 4-sim router with less than 1 second delay
- IP 55 rating
- Operating Temps: -40 F to 122 F
- Take-off Weight: 16.2 Lbs
- Methane Gas Sniffer and Optical Gas Imaging Payloads available









**UL 1480A LISTED** 

CLASS I, DIVISION 2, GROUPS A, B, C, AND D HAZARDOUS LOCATION CERTIFIED

WIDE FREQUENCY RANGE OF 100 Hz - 8 kHz

OPTIMIZED FOR HUMAN VOICE

ACOUSTIC BEAM OF 90-360°

1, 2, 3, AND 5 SIDED OPTIONS

EXCELLENT VOICE INTELLIGIBILITY

The HyperSpike® MA product line is a series of 360° high power mass notification systems that are battle-tested and battle-proven. Housed in an all-composite, waterproof, UV-resistant enclosure, the MA products can withstand any environmental condition. The lightweight, compact speaker seamlessly blends into most environments with minimal assembly, providing an aesthetic appearance. MA Series applications are endless. From military security to emergency notification on campuses, HyperSpike \* has you covered.

With a powerful acoustical output, broad range of use, and industry leading intelligibility, your message is guaranteed to be heard and understood. When the message matters, HyperSpike® delivers.



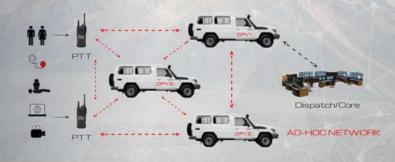




# PHANTOM

# MOTNAHO

"Proven high-capacity multi-domain IP connectivity in challenging environments that sits seamlessly alongside existing public or private infrastructure."



### PERSONAL TACTICAL COMMUNICATION



- Headset
- GPS
- Helmet Camera
- Rugged Data Tablet Bio Health Sensors



# RUGGEDISED MESH REPEATER



### PPTRADIO



### BODY WORN RADIO





# USES OF pMESH

- VIP Convoy Communications Identifying and monitoring of terrorist threats
- Monitoring of serious crime
- Public order policing
- Intelligence gathering Maritime

- Battlefield Situational Awareness Robotic and Autonomous Systems (RAS) Including UAVs, UGVs and USVs
- Connected and Autonomous Vehicles (CAV)





"Phantom MESH is an encrypted communications network allowing you to rapidly deploy complete BLOS radios, PTT and MESH networks anywhere in the world."





# PHANTOM 🚕

"Emergency Services and Search & Rescue teams are often called upon when disasters strike, or when accidents occur in remote locations such as forests or mountains. Protecting a country's coastline is an important function, from preventing piracy and armed threats to simply discouraging illegal fishing or smuggling activities."

### DNESH SEAFICH & RESIDLE. COAST GUARD & SAFE DITY

# PHANTOM (

"pMESH self-forming capability fully supports mobility applications like unmanned drones, convoy movement and battlefield networks. The deployment of military assets for a mission allows for fast implementation of a private network within the field of operation."

# DEFENCES





"A range of devices which are lightweight, deployable and ruggedised to fulfil your mobile broadband requirements."



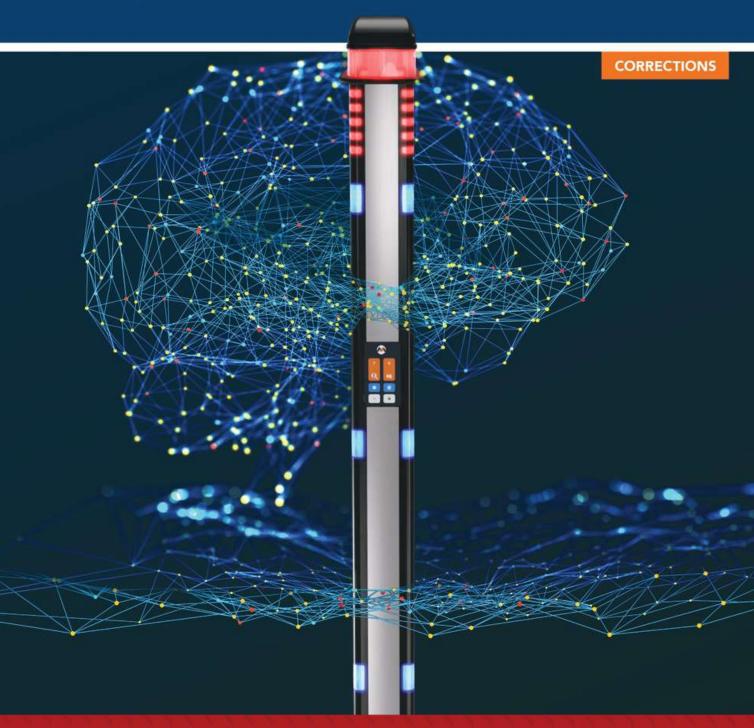


WAVE PTX eliminates barriers between devices, networks and locations, enabling next level team collaboration and communication.



# CELLSENSE® ULTRA WITH XACT ID™

Intelligent Detection Starts Here



# Cellsense Ultra with Xact ID

THE FUTURE OF CONTRABAND DETECTION. TODAY.



# SECURE, ACTIONABLE DATA

- Use captured data to improve operations
- Remote management and integration via API
- Event logging and operational statistics



# 5-ZONE LED-LIGHTED PRECISION

- Lighted indicators at the height level of the contraband item
- Improves secondary screening efficiency
- Zone indication without compromise to detection performance



# UNIFORM DETECTION

- Enhanced sensor design and performance
- · Increased detection sensitivity
- Consistent detection throughout the entire detection area from head-to-toe





# NOISE FILTERING FLEXIBILITY

- Digital mitigation of non-contraband interference in noisy areas
- Improved deployment flexibility to more locations in/around the facility
- Greater operational efficiency to set up and screen without delay



# SIMPLE, RUGGED INTERFACE

- Fast, simple setup
- Intuitive design
- Ruggedized screen prevents accidental or intended damage
- · Easy to use



# **GEN 2: INTELLIGENT DETECTION**



# PROTECTING YOUR STAFF AND FACILITY BY DETECTING THE OBJECTS WHICH OTHERS MISS

Gen 2 takes detection to the next level through a combination of enhanced 'head to toe' sensor arrangement, low-noise signal processing and the latest in digital algorithms.



Gen 2 further protects your staff and facility by being able to detect objects which are half the size or twice the distance compared to our previous, market leading screening range<sup>\*1</sup>

# KEEPING SENSITIVITY HIGH AND ALARM RATE LOW

Effective screening requires high detection capability combined with a low nuisance alarm rate. Alarms can be triggered by many factors present in the local environment, from moving chairs to elevator shafts, air con units and even distant metro systems.

Turning down the sensitivity to reduce these alarms has a very large impact on what you can detect, but Gen 2 sets a new standard in digital noise mitigation, allowing you to keep the sensitivity high without the annoying beeping!

# SIMPLE, INTUITIVE CONTROLS

With a broad range of system users in mind, Gen 2's touch screen interface has been designed to enable significantly greater configuration and control, whilst ensuring the user operation is as simple as possible.

The 4.3" toughened screen is shielded from accidental or malicious damage, ensuring long lasting operation in the most challenging environments. Utilizing the latest PCAP touch and high-brightness IPS screen technology, the system can be operated when wearing gloves, in the rain, or in bright sunlight.





# THE CONCEPT

Ultra lightweight

Sleek profile

High range of motion

Weight distributed to back





# THE Design

The Ratis fits over the shoulders and integrates with a ballistic vest or can be worn on its own. Mounting clips connect to a wide range of vests to suit each operator, and are cinched down to a snug fit.

The small footprint and flexible material of the Ratis gives operators freedom. They can execute the same actions they would if they weren't wearing it: climbing caving ladders, swimming, shouldering a weapon & storing ammunition on the carrier.

When the inflation system is triggered, the 1 lb Ratis releases a film cell and explodes to over 40 lbs of buoyancy. This floats heavy-load users like snipers and can surface operators from depth. Buoyancy distribution in the inflatable cell turns unconscious operators face-up so they have a clear airway.







# THE Brief

Design the smallest, lightest, and most comfortable flotation device for elite special ops.

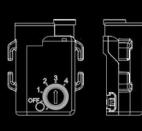
Create multiple inflation modes that align to a wide range of missions & depths.

Turn unconscious operators face-up with clear airway.

Float fully kitted operators with equipment.









# KEY Ingredients

# **02 HAMMAR COR ELECTRONIC INFLATOR**

Mustang partnered with inflation experts at CM Hammar to create the most versatile inflator in a personal flotation system. Until now, different mission profiles would mean different inflators. The COR uses an electronic control unit to enable four inflation modes—meaning one inflator for all missions.

The requirements for each inflation mode came from the special ops community. By measuring depth and time, the COR can trigger the inflation sequence exactly when it's needed, depending on the mission. The modes include manual inflation, water submersion, helicopter assault force, and boat assault force.

When inflation conditions are met, the COR sends an electronic signal to the cylinder face and ignites a small explosive charge for a safe, fast, and reliable inflation. The patented explosive technology means that cold temperatures—a risk for many inflators—are no issue with the COR.

HAMMAR'



MOBILE AND SEE-THROUGH CAGES CREATE

# **EFFICIENCIES IN THE ARMS ROOM**

Store weapons by unit or like item with accessories mounted or on a shelf in the same cage. Combine that with the see-through grid, this significantly reduces time required for daily inventory. Move the cages by hand to rearrange the arms room or for shorter walking distance during issue.



# FLEXIBLE AND MODULAR WEAPON STORAGE

# TACTICAL LOCKER CWM

The TACTICAL LOCKER CWM cage is our most flexible and feature-rich cage. It comes with removeable wheels, weather cover, cargo net on the roof and straps on each shelf.

For security reasons there is a wheel brake both outside and inside the cage. The cage can be locked and accessories comes with locking mechanisms to secure items inside the cage. It is also possible to secure the cage to a wall, or another cage, at the back and side.

The cage comes with blocking and bracing to transform a TRICON or 20ft container into a mobile armsroom.



ACCESSED INSIDE THE CAGE



USES



ONE CAGE AND THREE ACCESSORIES CONSTITUTE OUR

# **WEAPON STORAGE SYSTEM**

Flexibility is key, which is why we made it the guiding principle when designing the SHARKCAGE WEAPON STORAGE SYSTEM. With only three accessories and one cage it is possible to store most, if not all US Milliary issued weapons.



TEA TACTICAL LOCKER CWM

- 1 EA TACTICAL LOCKER CWM
- 2 EA CWM WEAPON RACK 1 EA CWM DRAWER



1 EA TACTICAL LOCKER CWM





1 EA TACTICAL LOCKER CWM

1 EA CWM CREW WEAPONS HOLDER

1EA CWM DRAWER



WHEN DEPLOYED

# **OPERATE OUT OF CONTAINERS**

Both the cage and the weapon-rack are lockable, adhering to physical security requirements for weapons storage, rendering it possible to use a standard TRICON as the mobile arms room.



A New
Protection
Breakthrough
Against
CBRNe



DEMRON' by R5T

ISO 9001

ISO 13485

ISO 8194

CERTIFIED



DEMRON<sup>TM</sup>
W CBRN ENSEMBLE

The Only True Anti-Nuclear, CBRN Now with Self-Cooling Stealth Technology





# DEMRON IED/RDD/RAD SHIELD BALLISTIC

# High Energy Nuclear / **Ballistic IED RDD Shield**

Reducing the area of radiation is one of the most effective means of radiation protection. Radiological Dispersion Devices (RDD) or dirty bombs, if left unshielded, can emit radiation to a large area of the population. In this scenario, a large amount of radioactive material (ie Cesium 137 or Cobalt 60) is emitting radiation upwards of one mile. Since area is measured as 3.14 times radius square, with the population density of New York City\*, made with **Demron™** nearly 222,940 people can be affected. With only one RST High Energy Nuclear/Ballistic IED RDD Suppression Shield, the radius of radiation can be reduced 50% to 70%; thereby reducing the affected population 75% to 91%. This would have a significant impact by allowing the first responder to conduct rescue operations and allow for a more orderly evacuation. \*Assumes density population of 71,000 per square mile.



















### Jun 2018:

"Leaked audio reveals how Amazon's strategy of secrecy is spreading to Whole Foods" \*1

# Aug 2018:

"Omarosa claims audio reveals Trump staffers discussing N-word tape" \*2

### Jun 2017:

"Leaked audio reveals sexist insult at Uber meeting addressing culture issues" \*3

# It could also happen to you.

Santor Security Inc.



www.santor.com

info@santor.com





"Officials' conversation recorded with an audio keychain" \*4

# Jun 2017:

"Leaked audio recording of an internal security briefing" 45

### Oct 2017:

"CSO leaked audio strategy became viral" \*6

- www.businessinsider.com/amazon-whole-foods-culture-secrecy-2018-6
- \*2 www.nypost.com/2018/08/14/omarosa-claims-audio-reveals-trump-staffers-discussing-n-word-tape/
- 3 www.geexwire.com/2017/uper-ceo-travis-xaianicx-take-leave-absence-amid-noe-nalling-companys-scandais/ 4 www.ntimes.com/2014/1/06/sports/soccer/chuck-blazer-a-blazer-in-the-blozer-world-of-soccer-corruption-ht-
- \*5 www.techradar.com/news/how-apple-handles-leaks-according-to-a-leaked-internal-briefing
- \*6 www.cnbc.com/2017/10/19/facebook-security-chief-alex-stamos-leaked-audiotape.html



# SANTOR UNG52 Speech Protector

Your privacy, at the push of a button.



### Unique hemispherical protection

Once activated, the UNG52 creates an imperceptible bubble around itself, effectively insulating you from unwanted listeners.

# Dual protection options, for optimal security

In its stealth mode, the UNG52 generates a continuous ultrasonic wave-safe and barely audible to human hearing-which saturates the microphone, rendering any recording useless. In addition, and for maximal protection, the UNG52 can use your own vocal frequencies, broken down and scrambled (therefore audible), to create an impervious defense, making audio cleanup virtually impossible.



# Operated by mobile app

Control multiple units through a user-friendly, Bluetooth encrypted, smartphone app.

### Updatable in real time

As new microphones, cleaning softwares, and technological innovations are being constantly released, the UNG52 is being continually and thoroughly lab-tested to guarantee the highest level of protection. And as the improvements are being made, they will be sent to you directly, through software updates.

# Very discreet-looking

Simple, straightforward device, esthetically designed to seamlessly blend in with your professional environment.





+1-514-316-9579 www.santor.com info@santor.com



# SANTOR UNG52 Speech Protector

The Santor UNG52 Speech Protector enables you to protect your private conversations from voice recorders, microphones, and direct human listening.

The SANTOR UNG52 speech protector is presently the most sophisticated device on the market to protect your confidential conversations. Nowadays, no one is shielded from recorders or audio microphones (cell phones, tablet computers, digital voice recorders, wireless or wired microphones, etc.): They are everywhere. During an important business meeting, we must ensure the protection of our pieces of oral information so that they remain confidential.

A voice recording could be used as a blackmailing tool, and can even destroy a reputation. Our system can easily blend into any environment, and enables you to have a highly protected conversation with your interlocutors.

### The UNG52 enables you to protect your private conversations from:



Voice recorders (analog or digital), dandestine listening devices (wireless or not)



Direct human listening, via stethoscope and much more



Smartphones, computer/tablet applications, and microphones

- Simple to use device
- Two protection modes
- Very discreet-looking
- · Can be personalized
- Operated by red app



Bluetooth switch (located underneath the unit) for multi-device management (MDM) and easy control via the SANTOR UNG52 APP.









# SANTOR UNG52 Speech Protector

The SANTOR UNG52 is a non-invasive countermeasure system to use during meetings to prevent information leaks and lower the risks of being recorded.

Designed and manufactured in Canada, our product is of industrial quality.



### Two protection modes

### Ultrasonic mode:

It emits a barely audible noise, thereby ensuring ultimate discretion. It highly reduces the risks of being listened in or recorded by the majority of audio microphones on the market, including very sophisticated mini-recorders: Edic Mini, Gnome, Nagra, etc., and all major smartphone brands including the iPhone X, Samsung Galaxy 8, Google Pixel, and more.

\* The ultrasonic noise level is equivalent to the sound of a commercial alarm or to music in a dub (120 dB\*)

### Acoustic mode:

It emits a voice scrambling mix, audible to the human ear, which can be personalized with the UNG52 app. It insures the highest protection against forensic cleaning softwares and sophisticated devices. Furthermore, this mode ensures a protection from human/electronic listening (someone listening in or any stethoscope or contact microphone on the wall).

You can either use one or multiple units for larger coverage, which can be controlled simultaneously (managed) via Bluetooth with our UNG52 free app. It can be permanently installed on the ceiling with two screws, with a T-Bar Clip for drop ceiling rails, or on a tripod; it can also be placed in the middle of a conference table.



The SANTOR UNG52 Speech Protector is designed to blend into a conference room and discreetly protect your vocal conversations during your meetings.



SANTOR SECURITY INC. +1(514)316-9579 www.santor.com info@santor.com





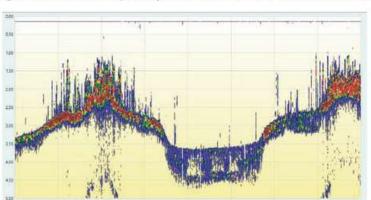
# **HYDROGRAPHIC**

SURVEY SOLUTIONS



# HydroLite™ Survey Pole Kits

Seafloor's Hydrolite<sup>™</sup> pole kits make the transition from land survey to hydrographic survey seamless. They combine an echosounder topside & transducer, survey pole, and transom boat mount into a portable piece of equipment that can be adapted to fit any vessel. Our single and dual-frequency versions use sonar to measure and log depths of bodies of water.

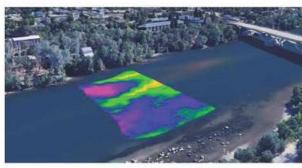




# HyDrone™ Unmanned Survey Vessel

The HyDrone™ USV is a one-person portable catamaran developed for hydrographic survey applications. It can be outfitted with a singlebeam sonar system to remotely navigate otherwise challenging environments. Both remote-control and semi-





# TriDrone™ Unmanned Survey Vessel

The TriDrone™ USV is a compact, portable vessel for conducting surveys in confined, remote bodies of water. With remote control capabilities, a folding design, and an integrated singlebeam echosounder, this USV brings efficiency to any work site.





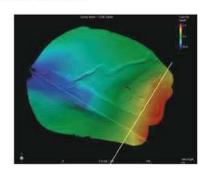


# Trident™ Unmanned Survey Vessel

The Trident USV™ is a remote platform purpose-built for multibeam hydrographic surveys. This trimaran collects high resolution depth data via remote control or preplanned autonomous routes. The moonpool of the center hull allows for flexible integration of several compact multibeam systems.



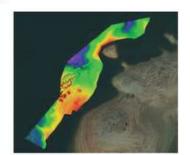




# EchoBoat-160™ Unmanned Survey Vessel

The EchoBoat-160™ USV integrates professional-grade sensor suites in a compact package to navigate challenging bodies of water by remote control or autonomous wayfinding. Perform hydrographic surveys remotely, safely, and consistently with this meticulously-engineered unmanned surface vessel.







# EchoBoat-240™ Unmanned Survey Vessel

The EchoBoat-240 is a 2.5m / 8ft remote vessel that excels in confined or shallow bodies of water where traditional survey methods are not suitable. The vessel's moonpool allows for flexible installation of multibeam systems from the top brands in the industry.



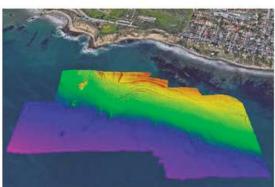




# HydroCat-180™ Unmanned Survey Vessel

The HydroCat-180 is capable of transiting from inshore to nearshore environments with high-resolution multibeam equipment payloads to conduct preplanned autonomous hydrographic surveys. The vessel can be transported via trailer, deploy sonar systems with its articulating boom, and navigate up to sea state 3 conditions with its gimballed aluminum hull construction.

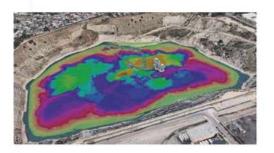






# **Custom Multibeam System Integration**

As system integrators, we offer trusted multibeam sensor suites and components from our portfolio of industry-leading partner brands (Teledyne, Applanix, AML, Valeport, MIND, Hypack, Norbit). Seafloor can supply and customize any vessel with bespoke solutions to perform hydrographic missions. Putting client performance requirements and budget at the forefront of what we produce, Seafloor is the answer for the hydrographic survey needs of companies large and small.



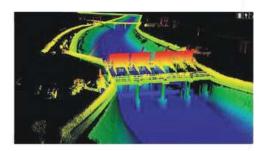
























Law Enforcement



Military



Fire Rescue



# Life Sign Detection System

A remotely operated system that looks for life signs and movements of humans. Microwave Radar and unique algorithms designed by SpecOps Group, makes it possible to scan common construction materials, open spaces, voids and thresholds. It uses a camera targeting system that automatically switches between conventional optics and infrared for day and night operations using dual infrared illumination.

This tool was designed to augment a human's ability to detect life from a safe distance. This ability creates a new level of safety by keeping the user away from harm. It's ruggedized 8" (20 cm) tablet operates the system from up to 100 feet away. Used with TCP/IP enabled radio systems and networks, operating and monitoring results can be accomplished from great distances. The X3 Finder Mark IIIc is also ground robot mountable.

A complete X3 scanning package weights in at 13 lbs (6kg) and is completely man portable. The remote sensor is IP 67 rated and floats. Its modern battery power supply is ultralight and provides 12 hours of standby time and up to 120 scans with a full charge. A full recharge is accomplished in 90 minutes. The control tablet is also rated for 12 hours of use and is









Respiration

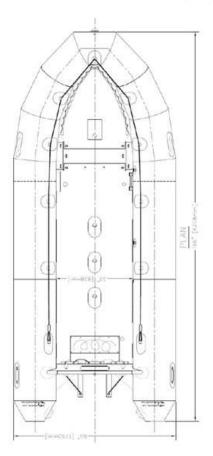


**SERIES** 





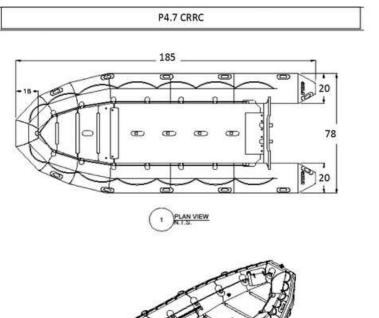
# **WING** P 4.2



The Wing P series craft are the ideal inflatable boats for missions in which rapid deployment, high performance, and reliability are key assets for success. Whether paddled for stealth or powered for speed, Wing's CRRCs are designed for a variety of military and law enforcement missions—from combat reconnaissance to search and seizure; from boarding operations to search and rescue; from insertion to extraction of Special Forces teams to maritime patrol. Whatever you need, we've got you covered.

	P4.2
Overall Length	13'9"
Overall Beam	5′9″
Internal Length	10'9"
Internal Beam	2'8"
Tube Diameter	18"
Number of Chambers	3
Usable Deck Space	27 ft <sup>2</sup>
Craft Weight – Empty	149lbs
Craft Weight – with Full Composite Hard Deck	242lbs
Craft Weight – with Roll-Up Floor	226 lbs
Folded Dimensions	25"x25"x52"
Transom Height	20"
Max Payload	2035lbs
Person Capacity	6
Max HP Rating (Hard Deck/Roll Deck)	50/30hp
Max Engine Weight	240lbs

# **WING** P 4.7



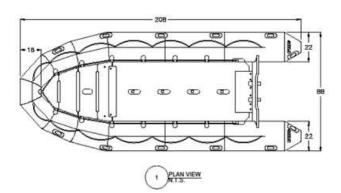
2 ISOMETRIC VIEW

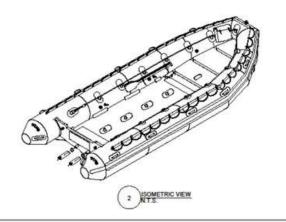
The Wing P series craft are the ideal inflatable boats for missions in which rapid deployment, high performance, and reliability are key assets for success. Whether paddled for stealth or powered for speed, Wing's CRRCs are designed for a variety of military and law enforcement missions—from combat reconnaissance to search and seizure; from boarding operations to search and rescue; from insertion to extraction of Special Forces teams to maritime patrol. Whatever you need, we've got you covered.

	P4.7
Overall Length	15'5"
Overall Beam	6'6"
Internal Length	12'3"
Internal Beam	3′
Tube Diameter	20"
Number of Chambers	5
Usable Deck Space	34 ft <sup>2</sup>
Craft Weight – Empty	180lbs
Craft Weight – with Full Composite Hard Deck	280lbs
Craft Weight – with Roll-Up Floor	274lbs
Folded Dimensions	27"*29"*56"
Transom Height	20"
Max Payload	2760lbs
Person Capacity	10
Max HP Rating (Hard Deck/Roll Deck)	65hp



### P5.3 I-CRC 8500012





Number of Chambers	5
Removable Keel	1
Pressure Relief Valves	5
Auto-inflation points	2
FABRIC & MATERIAL	
Buoyancy Tubes—40oz/Yard PU coated Polyester	Yes
Fabric Floor—40oz/Yard PU coated Polyester	Yes
Thrust Board— Removable Composite	Yes
Floor Board – Roll Up—PU Sheath, Composite Slats	Available
Floor Board – Hard Deck—Composite	Available
Transom—Composite	'Yes
TRANSPORTATION	
Heavy Duty Carry Handles	8
Bow Handle	1
Internal D-rings	13
Interior Lifeline	2
Exterior Life Line—Full Length	1
Lifting System	4 point
Transom Tow Eyes & Forward Tow Rings	2 port, 2 stbd
REINFORCEMENTS	
Rubstrake—full length	3"
Keel Protection	3"
Anti-Splash Transom Patches	2
Large Self Bailing Scuppers	2
Sacrificial Transom Plate	1
Engine Mounting Plate	1

The Wing P series craft are the ideal inflatable boats for missions in which rapid deployment, high performance, and reliability are key assets for success. Whether paddled for stealth or powered for speed, Wing's CRRCs are designed for a variety of military and law enforcement missions—from combat reconnaissance to search and seizure; from boarding operations to search and rescue; from insertion to extraction of Special Forces teams to maritime patrol. Whatever you need, we've got you covered.

	P5.3
Overall Length	17'5"
Overall Beam	7′2″
Internal Length	13'2"
Internal Beam	3′5″
Tube Diameter	22"
Number of Chambers	5
Usable Deck Space	43.4 ft <sup>2</sup>
Craft Weight – Empty	192lbs
Craft Weight – with Full Composite Hard Deck	312lbs
Craft Weight – with Roll-Up Floor	302lbs
Folded Dimensions	38"x38"x65"
Transom Height	20"
Max Payload	4000lbs
Person Capacity	12
Max HP Rating (Hard Deck/Roll Deck)	80hp
Max Engine Weight	345lbs



### 6 Reasons to Run On

- **#1 Polyurethane vs. Hypalon (CSM)** A polyester scrim coated with polyurethane not only gives the Wing CRRC superior tear, puncture and abrasion resistance compared to CSM and PVC, the 1680 denier thread count adds stiffness as well. Consequently, an inflated Wing is more rigid yet lighter than boats made with lesser materials. A lighter, more rigid boat is faster, more maneuverable and a more efficient boat to run.
- **#2** Thermo-welded vs. glued seams Thermo-welding bonds two pieces of coated fabric together as if they were one. Molecularly fused using heat (not adhesives as wit Hypalon), welded seams are far more reliable than glued seams. Expect a greatly extended service life and a much longer shelf life for boats in long-term storage with welded seams over glued seams.
- **#3 FRP Composite transom, floorboards and thrustboard vs. plywood/aluminum** FRP composite is nonabsorbent so it won't rot or decay. It is lighter than wood or aluminum and has a superior strength to weight ratio.
- # 4 Tapered Bow Our tapered side tubes and squared-off bow creates 20% more usable hard deck space in the bow. On the outside, the squared-off bow directs water down into the V-hull assisting with lift and planing.
- **#5 V hull design vs. lower buoyancy tubes** With and without a load, the Wing CRRCs get up on a plane fast—faster than a LBT equipped competition. Eliminating these unnecessary LBT's results in less weight, less draft, less drag, a reduced wake profile, and less stuff to go wrong. The four inch dead rise from our MBT to the tunnel effect that assist in lift at higher spe
- #6 Dimensionally the same as current in-service CRRC models For all the increased performance the Wing CRRCs are identical bow to stern, and port beam to starboard, as the current in-service CRRCs. Our basic models weigh less as well, so it will easily match, fit, lift, install, launch, trailer, or stow for any mission.

**Product Sheet** 

# Raider Outboards 50 HP Submersible Motor







# RAIDER Outboards.com

# Raider Outboards Safety Jet



Safety Jet allows operators to change to a "pump jet" in less than 10 minutes. The Safety Jet allows for operation of the Raider Outboards in "brown" water where debris is present; beneficial for training whereby no moving parts of the engine can hurt the trainees if they should come in contact with the lower unit; protects the lower unit when beaching and can withstand minor contract with underwater obstacles. The user can switch back to a propeller within 10 minutes.

### Why Safety Jet?

Faster out of the hole than propeller

During training soldiers can be seriously injured or killed by an exposed rotating boat propeller. Under Government funding the USMC recognized the safety of a jet drive and successfully integrated jet drives in their systems. Jet drives have been in existence for many years and comes in many shapes and sizes. The Safety Jet fits the 20 inch transom that Rubber Inflatable Boats use.

The Raider Outboard can be ordered with either propeller or Safety Jet. The Safety Jet option can be ordered separately as a kit and will take approximately one hour to move from propeller to Safety Jet.

The Safety Jet will fit the Commercial Off The Shelf commercial outboard.



# SERVING SINCE 2005



# **AlRamly Company**

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