PLYMOUTH ROCK
TECHNOLOGIES

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ABOUT PLYMOUTH ROCK //

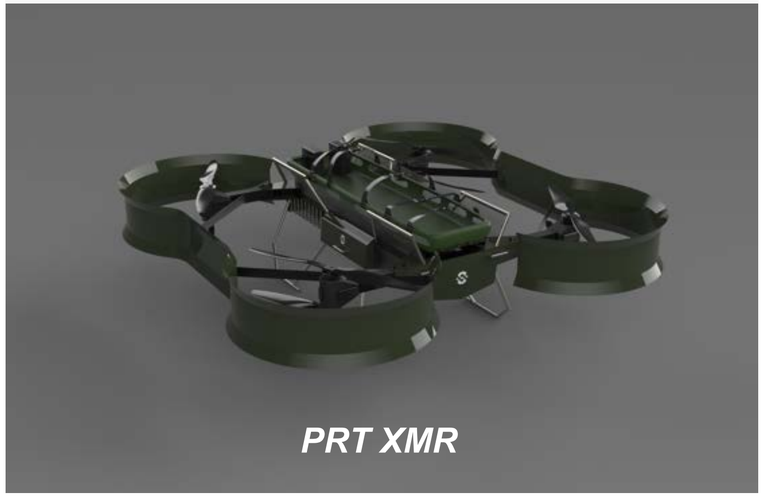
Plymouth Rock Technologies (PRT) is formed by a world class team of highly experienced scientists, engineers and business executives who design, develop and commercialize best-in-class Unmanned Aircraft Systems (UAS), alongside combined sensory and intelligence products.

Image by United Nations

Our experience within market segments offers both our clients and shareholders a diversified opportunity in Security, Defense, Intelligence and fast-growing vertical markets.

We address real world issues due to our adaptability to pivot to the needs of the worlds ever changing requirements.

Our versatility and understanding of our clients' needs allows for the design and creation of technology specifically tailored to the requirements of individual clients.



PRT XMR

LEADERSHIP //

DANA WHEELER
Chief Executive Officer

Recognized Industry Veteran with over 35 years experience in RF, Microwave and Millimeter-wave technologies.

Past positions with M/A-Com, Millitech, Lockheed Martin, Harmonix Corp (HXI), Terabeam, Proxim and founder of Radio Physics Inc. Mr. Wheeler is a graduate of the University of Massachusetts, Dartmouth.

Dana is very well known within the USA innovation defense fraternity and has extensive experience taking products through the military specification cycle.

CARL CAGLIARINI
Chief Strategy Officer

A highly successful and experienced start–up entrepreneur with over 25 years of extensive international experience of customer focused technology innovation and business development.

Carl has held high-level Sales and Business Development positions with Radio Physics Solutions, Infinet Wireless (YNDX), FSONA Corporation and led the M&A of the Astro Terra merger MRV (MRVC). This included management and oversight of the NASA STRV 2 Program.

His commentaries on next generation technologies have been aired on BBC, CNN and Sky TV.

UAS DEVELOPMENT TEAM //

BEN PICKARD
SVP UAS Development

Ben is highly experienced in developing specialist UAS platforms for demanding applications worldwide, within defense, security and inspection industries.

Ben is a graduate from the University of Lincoln holding a First-Class Honors Degree in Product Design and a Masters Degree in Design. Ben is a CAA qualified UAS pilot.

PAUL KEEN
Director of UK Operations

With more than 30 in Manufacturing / Operations / New Product Introduction (NPI), Paul has conducted product development on a global-scale including start-up technology/defense companies.

Highly experienced in consumer, security electronics with specific strength in taking products from conception through to full manufacture, Paul has a sharp eye when it comes to product NPI with his knowledge of both electrical and mechanical design.

DANIEL CAGLIARINI
UAS Project Manager

With 8+ years of experience in start-up and technology companies, Daniel is the main liaison between UAS Development team, Sales and Marketing, Management and End-Customers / Partners.

Daniel is a graduate of Leeds Beckett University and holds a Bachelors Degree in Business Management. Daniel is a CAA qualified UAS pilot.

DIRECTORS //

Douglas Smith
Chairman of the Board

Douglas has spent the last 25 years serving at the highest levels of government in national security and the private sector and is a serial entrepreneur, having helped start numerous companies' specification cycle.

Dr. Khalid M. Al-Ali
Independent Director

Dr. Khalid M. Al-Ali is the Co-Founder and Executive Chairman of Senseta, a world leader in mission-critical big data fusion, AI and drone-powered deep technologies.

Tim Crowhurst
Independent Director

28+ years experience and long history in corporate affairs, as well as a strong understanding of border security measures and international immigration movements.

Thomas W. Nash
Independent Director

Thomas W. Nash is the Chairman and CEO of Xalles Holdings Inc., a Fintech holding company. Mr. Nash has provided strategic business advice to more than 200 firms worldwide from small firms to large organizations such as U.S. Bank, MasterCard, and Citibank.

Angelos Kostopoulos
Independent Director

35+ years experience and Partner with the Nakou & Associates law firm based in Athens, Greece and with offices in Washington D.C.

WHY WE DEVELOPED PRT UAS //

We chose to develop our range of UAS upon reviewing the offerings of heavy-lift Vertical Take-Off and Landing (VTOL) platform within the overall drone industry.

We found that the majority of available platforms were manufactured by Chinese entities, and didn't deliver substantial payload capacity, without sacrificing endurance and range requirements.

PRT UAS platforms were specifically designed to enable Autonomous and Beyond Visual Line of Sight (BVLOS) operations, utilizing Artificial Intelligence (AI) and high-grade collision avoidance systems.

This combination of sensors and on-board intelligence used in conjunction with strong, lightweight airframes and uncompromised componentry allow our UAS to perform at the highest-levels in the most challenging environments.

The PRT UAS range consists of all-electric and hybrid variants of both multirotor and fixed-wing VTOL, constructed to be compliant with NDAA FY 2020 Section 848 and Executive Order 13981.

X1 – MULTIROTOR UAS //

The PRT X1 multirotor UAS is our flagship drone. With versatility and capability at the forefront of development, X1 UAS were designed to be ‘heavy-lift’ drones for mission-critical operations.

Utilizing the latest ISR (Intelligence, Surveillance, and Reconnaissance) sensor technologies alongside thermal and ultra-high-resolution camera modules, the X1 will greatly enhance both the capabilities and efficiency of military, law enforcement, intelligence agencies, and rescue services.

SPECIFICATIONS

	X1	X1-H
Propulsion	LiPo Battery	Hybrid – 2.64 gal *(LiPo / ICE*)*
MTOW (Payload Capacity)	55lbs (22lbs)	55lbs (11lbs)
Max. Flight Time	Up to 45 mins	Up to 4 hours
Max. Speed / Cruise Speed	45 mph / 20 mph (72 kph / 32 kph)	
Endurance**	Up to 15 miles (24 km)	Up to 80 miles (128 km)
Operational Range***	Up to 12 miles (20 km)	Up to 62 miles (100 km)
Maximum Operational Altitude *Height Above Mean Sea Level* **(AMSL)**	15,000 ft	
Temperature Range	14°F to 113°F (-10°C to 45°C)	
Wind Resistance	Up to 40 mph (64 kph)	
Aircraft Avoidance	ADS-B Tx & Rx	
Collision Avoidance	Forward & Downward-facing LiDAR, 100m range *Full 360° Collision / Obstacle Avoidance Optional*	
Tether Capability	Yes	

* *ICE – Internal Combustion Engine*

** *Endurance is dependent on speed, payload and environmental factors / conditions*

*** *Extended Operational Range available with Satcom / Cellular Communication modules*

X-LITE – SMALL MULTIROTOR UAS //

PRT X-Lite enables operators to carryout demanding operations within a smaller package.

The lightweight platform has a 2kg payload capacity best suited to high-resolution camera equipment and lightweight sensor packages. The compact folding design allows operators to quickly setup and launch the X-Lite without the need for large transport cases.

Similarly, to the X1 the X-Lite also features a coaxial motor drive system for increased power, redundancy and overall safety.

SPECIFICATIONS

	X-LITE
Propulsion	LiPo Battery
MTOW (Payload Capacity)	17.6lbs (4lbs)
Max. Flight Time	Up to 35 minutes
Max. Speed / Cruise Speed	30 mph / 12 mph (48 kph / 19 kph)
Endurance*	Up to 7 miles (11km)
Operational Range**	Up to 12 miles (20km)
Maximum Operational Altitude *Height Above Mean Sea Level* **(AMSL)**	15,000ft
Temperature Range	14°F to 113°F (-10°C to 45°C)
Wind Resistance	25 mph (40 kph)
Aircraft Avoidance	ADS-B Rx
Collision Avoidance	Forward & Downward-facing LiDAR, 100m range *Full 360° Collision / Obstacle Avoidance Optional*

* *Endurance is dependent on speed, payload and environmental factors / conditions*

** *Extended Operational Range available with Satcom / Cellular Communication modules*

XV – FIXED-WING VTOL UAS //

PRT XV VTOL (vertical take-off and landing) fixed-wing UAS platforms enable extreme long-range surveillance for border security, military, search & rescue, and naval operations.

Intuitive flight planning and automatic anti-collision systems managed by artificial intelligence allows the remote operator to concentrate on the mission.

SPECIFICATIONS

	XV	XV-H	XV-L
Wingspan	2950mm		4500mm
Propulsion	LiPo Battery	Hybrid – 1.05 gal *(LiPo / ICE*)*	Hybrid – 7.13 gal *(LiPo / ICE*)*
MTOW (Payload Capacity)	55lbs (5.5lbs)	55lbs (7.7lbs)	187lbs (55lbs)
Fuel Type	N/A	Gasoline / Heavy Fuel	
Max. Flight Time	up to 3 hours	up to 4 hours	up to 7 hours
Max. Speed / Cruise Speed	70 mph / 50 mph (112 kph / 80 kph)		105 mph / 70 mph (169 kph / 112 kph)
Endurance**	Up to 150 miles (241 km)	Up to 200 miles (322 km)	Up to 490 miles (788 km)
Operational Range***	Up to 31 miles (50 km)	Up to 62 miles (100 km)	
Maximum Operational Altitude *Height Above Mean Sea Level* **(AMSL)**	15,000 ft		
Temperature Range	-13°F to 113°F (-25°C to 45°C)		
Wind Resistance	Up to 30 mph (48 kph)		
Aircraft Avoidance	ADS-B Tx & Rx		
Collision Avoidance	Terrain Monitoring		

* *ICE – Internal Combustion Engine*

** *Endurance is dependent on speed, payload and environmental factors / conditions*

*** *Extended Operational Range available with Satcom / Cellular Communication modules*

XMR – HEAVY-LIFT MULTIROTOR UAS //

PRT XMR is a multi-role UAS platform, designed for Medical-evacuation and Resupply.

Our ‘super-heavy-lift’ platform has a 150kg payload making it capable of extracting an injured soldier from the battlefield, an injured hiker from a remote location, or carrying out vital resupply or delivery roles across a range of applications.

The XMR reduces the risk to life and expensive assets by removing the need to send in additional units to ‘hot’ landing zones for extraction.

SPECIFICATIONS

	XMR
Propulsion	Hybrid – 5.28 gal tank *(LiPo / ICE*)*
MTOW (Payload Capacity)	770lbs (330lbs)
Fuel Type	Gasoline / Heavy Fuels
Max. Flight Time	Up to 3 hours
Max. Speed / Cruise Speed	40 mph / 20 mph (64 kph / 32 kph)
Endurance**	Up to 60 miles (96km)
Operational Range***	Up to 62 miles (100km)
Maximum Operational Altitude *Height Above Mean Sea Level* **(AMSL)**	15,000ft
Temperature Range	-13°F to 113°F (-25°C to 45°C)
Wind Resistance	30 mph (48 kph)
Aircraft Avoidance	ADS-B Tx & Rx
Collision Avoidance	Full 360 LiDAR Collision Avoidance & Terrain Monitoring

* *ICE – Internal Combustion Engine*

** *Endurance is dependent on speed, payload and environmental factors / conditions*

*** *Extended Operational Range available with Satcom / Cellular Communication modules*

CODA – COGNITIVE OBJECT DETECTION APPARATUS //

CODA-1 (Cognitive Object Detection Apparatus), the first system from the PRT CODA line, is a U.S. Government tested, uniquely designed, ultra-compact modular radar device that can be utilized for a variety of applications across many industries, covering everything from traditional radar for drone or aircraft detection, through to low-power ‘stand-off’ weapon detection.

CODA-1 is specifically configured to identify bombs, weapons and threat items that are concealed upon the person. Using Artificial Intelligence (AI) algorithms, the CODA-1 is able to detect concealed weapons, such as suicide bombs, assault weaponry and large bladed weapons from 3-9 feet.

The system utilizes a polarimetric radar that uses two Frequency Modulated Continuous Wave (FMCW) radar units.

For the CODA-1 variant, we have set the radar to analyze and determine the presence of metallic and non-metallic materials up to 9 feet. The spread spectrum FMCW transmits at ultra-low power level within the FCC X-Band allocation for law enforcement, which is several orders of magnitude below the government recommended safe exposure limit.

SS1 – SHOE SCANNER
FOOTWEAR IMAGING RADAR //

The SS1 Shoe Scanner is a floor-mounted imager that uses harmless radar technology to examine footwear whilst still on the person.

It provides an image that will identify any tampering with the shoe structure, any concealed items in the shoe or foot cavity area. This rapid pre-screening of footwear without removal reduces screening bottlenecks and queues and is easily incorporated into current screening processes for rapid adoption and near-term efficiency improvements

This rapid screening technique delivers an entirely new capability that has been demanded by TSA, FAA, CAA, Department of Homeland Security (DHS), Customs and Border Patrol, US Department of Corrections (DoC) and the UK Home Office.

THANK YOU

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