ARCHIVED REPORT

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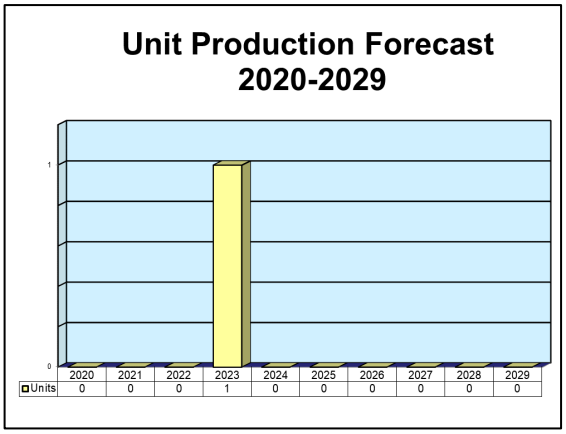
Radamec System 1500

Outlook

- Market for new orders appears nonexistent
- Few, if any, orders for replacement/spare parts in the next few years
- Heavy competition from comparable systems that are more technologically advanced for the cost



Orientation

Description. The Radamec System 1500 is a compact, lightweight electro-optical (EO) system designed for precision target tracking, ballistic prediction, and weapon control within the naval environment. It comprises a lightweight above-decks EO director and a compact below-decks support electronics cabinet.

Sponsor

Ultra Electronics
Command & Control Systems
(formerly Radamec Defence Systems)
Knaves Beech Business Centre
Loudwater, High Wycombe
Buckinghamshire HP10 9UT
U.K.
Tel: + 44 0 1628 530000
Fax: + 44 0 1628 524557
Website: http://www.ultra-ccs.com

Status. In operation and available for sale.

Total Produced. A speculative estimate puts the number of Radamec System 1500s produced by the end of December 2020 at 19 units.

Application. Naval electro-optical tracking and fire control system.

Price Range. Actual per-unit cost information has been difficult to obtain. Based upon the price of similar systems, a speculative estimate of $1.88 million per unit has been assigned.

Radamec System 1500

Contractors

Prime

Ultra Electronics Command & Control Systems	http://www.ultra-ccs.com, Knaves Beech Business Park, Loudwater, High Wycombe, Buckinghamshire, United Kingdom, Tel: + 44 1628 530000, Fax: + 44 44 1628 524557, Prime

Contractors are invited to submit updated information to Editor, International Contractors, Forecast International, 22 Commerce Road, Newtown, CT 06470, USA; rich.pettibone@forecast1.com

Technical Data

Design Features. Designed as a compact, lightweight EO system for surveillance, target tracking, and weapon control, the Radamec System 1500 provides control of small- and medium-caliber naval guns for surface engagements. However, the system can also be used for fire control in anti-air engagements.

Specifications	**Metric**
Director	Continuous 360°
Azimuth Coverage	>1.25 rad/sec
Azimuth Slew Speed	+85°, -35°
Elevation Movement	>1.25 rad/sec
Position Reporting Accuracy	<0.2 mrad
Thermal Imager	
Type	MCT FPA
Detector Elements	384 x 288
Spectral Band	3-5 µm (8-12 µm available)
Fields of View (2x switched FOV)	Narrow: 1.2° x 2.0°
	Wide: 5.4° x 7.2°
TV Camera	
Type	3-CCD color
Fields of View (continuous zoom)	Narrow: 1.2° x 1.7°
	Wide: 5.4° x 17.0°
NETD	0.05 K
Laser Rangefinder	
Type	KTP-OPO shifted ND Yag
Operating Wavelength	1.54 µm
Pulse Repetition Frequency	5 Hz, 1 Hz, single shot
Maximum Range	20,000 m
Minimum Range	280 m
Transmitter Energy	1 mJoule

Radamec System 1500

Radamec System 1500 Naval Electro-Optical Tracking and Fire Control System

Source: Radamec Defence Systems Ltd

Royal Australian Navy Huon Class Coastal Minehunter

Source: ADI

Radamec System 1500

Irish Naval Service Roisin Class Offshore Patrol Vessel

Source: Irish Naval Service

Variants/Upgrades

The Radamec System 1500 (also known as the 1400/1500) is a family of systems based upon a common set of baseline modules that allow the systems to operate in modes ranging from basic surveillance to ballistics fire control.

Program Review

Background. Originally produced by Radamec Defence Systems Ltd (Ultra Electronics acquired Radamec in 2003), the Radamec System 1500 is believed to have been around since the mid-1990s. It is a naval electro-optical surveillance, tracking, and fire control system. Its typical platform is the offshore patrol vessel (OPV) and similar coastal patrol craft.

Several navies are system customers, including those of the U.K., Australia, Ireland, and one unnamed Asian country. (This unnamed customer could be the Philippines, which has been upgrading its three Jacinto – ex-Peacock – class corvettes. The three upgrade phases have been completed. These upgrades included new fire control systems for the ships' upgraded guns.)

The market for the Radamec System 1500 appears dead. There may be an order for replacement or spare units in the future, but nothing more. Any prospective buyers will be the navies of smaller nations that are trying to keep their legacy systems alive, especially those used aboard coastal patrol vessels.

Funding

The Radamec System 1500 is believed to have been developed with company funding. No specific funding information is available at this time.

Timetable

Year	Major Development
2017	Ongoing maintenance and spares support

Worldwide Distribution/Inventories

The following is a list of possible users of the Radamec System 1400/1500. It is by no means all-inclusive.

Royal Australian Navy	6 Huon class coastal minehunters (4 active, 2 in reserve)
Irish Naval Service	2 ex-U.K. Royal Navy Peacock class patrol ships 2 Roisin class offshore patrol vessels
Philippine Navy	3 Jacinto (ex-U.K. Peacock) class corvettes (believed to be the above-referenced unnamed Asian navy)

Forecast Rationale

The Radamec System 1400/1500 has been a solid fire control system. It is particularly well suited to smaller vessels. While still operational and functional, the system has become technologically and economically obsolete. Additionally, the market for naval electro-optical fire control systems has become very competitive over the last several years, with the number of manufacturers apparently outnumbering orders.

Future sales of the Radamec System 1500 are extremely doubtful. The only possible sales in the foreseeable future will be for replacement parts/systems and maybe the occasional odd sale here and there.

This report will be archived in the near future.

Ten-Year Outlook

ESTIMATED CALENDAR YEAR UNIT PRODUCTION												
Designation or Program		**High Confidence**				**Good Confidence**			**Speculative**			
	Thru 2019	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**
Ultra Electronics Command & Control Systems (Prime)												
Radamec System 1500 <> Parts/Replacements												
	19	0	0	0	1	0	0	0	0	0	0	1
Total	19	0	0	0	1	0	0	0	0	0	0	1