A slew of contracts worth a total of RM 2.9 billion were signed on Day 2 of the show. The deals comprised 10 Contract

**L-39NG to Debut at Farnborough**

Czechoslovakia’s L-39NG will make its first public appearance at this year’s Farnborough Air Show. The aircraft will also take part in the NATO Days Air Show in Ostrava, Czechoslovakia in September. Making its presence at both shows will be the L-39NG TD, which is basically an L-39 fitted with a Williams International FJ44-4M engine. Confirming the presence of the L-39NG at the Farnborough Air Show this year, Marketing

**MINDEF is on the Move**

A slew of contracts worth a total of RM 2.9 billion were signed on Day 2 of the show. The deals comprised 10 Contract documents and four LOAs alongside three LOIs and seven MOUs. The contract for supply, delivery and commissioning of the Thales StarStreak Very Short Range Air Defence (VSHORAD), represent a major boost in Malaysia’s air defence capability. It will replace the obsolete StarBurst system.

A formal agreement was also signed by the MINDEF for the purchase of six MD530G multi-purpose armed reconnaissance helicopters. The **see page 4**

**GTA Inks MRO Deal with RMN**

**Caracal Eyes Malaysia Market**

**Russia Ready for Joint, Licensed Production in Malaysia**

Rosoboronexport (part of the Rostec State Corporation) is discussing with Malaysian partners the prospects for further deliveries of Russian military products.

“We pin our greatest hopes in the Malaysian market on Sukhoi multi-role fighters, helicopters, air defences and close assault weapons. Traditionally, the export potential of Russian weapons is very high here. Today, it has been further reinforced through the successful use of Russian hardware in large-scale counter-terror operations. When the customers need weapons not for parades, they come to us,” said Vladimir Ereschenko, Head of Rosoboronexport’s Regional

For Video Coverage of the DSA 2016 show, scan the QR code:

Read our Digital Daily News at www.gbp.com.sg/dailynews
155mm Precision Ammunition

Precision fire support is critical in modern operations; this feature describes 155mm precision artillery projects. Precision artillery rounds not only reduce collateral damage but also deliver accurate first-round hits under all weather conditions. The article examines a number of precision artillery rounds available in the market today. Raytheon and BAE Systems Bofors Excalibur, Finmeccanica OTO Melara Vulcano 155, Orbital ATK Precision Guidance Kit, BAE Systems Rokar Silver Bullet, Nexter Munitions SPACIDO, KBP's Krasnopol-M, and, NORINCO's GP1 and GP6.

Eurosatory 2016 Show Preview

Asian Defence Technology brings out a special show preview that provides you all the information on the latest defence technologies that will be displayed at the 2016 edition of the premier land systems exhibition. 1,507 exhibitors took part in the 2014 edition of Eurosatory and for 2016, the exhibition will bring together the entire Land & Air-land Defence and Security supply chain providing a unique opportunity to participants and visitors alike. Our special Eurosatory issue will also be distributed at the show site.

120mm Heavy Mortar

The 120mm heavy mortar is increasingly a popular weapon system in battle zones around the world. Self-propelled mortars include the Elbit Systems Soltam CARDOM and Spear, Huta Stalowa Wola (HSW) Rak, Hyundai XKM120, Patria NEMO, Patria Hagglunds AMOS, RUAG Cobra, ST Kinetics SRAMS, and TDA Armements 2R2M. The article will also describe Raytheon's Precision Extended Range Munition and Orbital ATK's SM395 Precision Guided Mortar Munition. Israel Military Industries (IMI) is also aggressively marketing its new 120 mm Guided Mortar Munition (GMM) in the region, which has already been demonstrated to the Royal Thai Army.

Sure Shot

Small and Medium arms requirements for armed forces in Asia are a market that continues to attract arms manufacturers the world over. Militaries in Asia now not only need to equip themselves for conventional battles but also for the growing threat of terrorism. The two requirements call for different weapon types and capabilities. We look at the different small and medium arms systems in use with Asian militaries and the difficulties they face as they seek to reequip infantry units with modern small and medium arms.
Prime Minister Calls for Inter-Agency Collaboration

Prime Minister Datuk Seri Mohd Najib Tun Razak has called for inter-agency cooperation and collaboration to help tide over the current economic uncertainty. "Any rivalries and squabbling over jurisdictions and turfs belong to the past. There is too much at stake... In this challenging time of economic uncertainty, governments are forced to optimise the use of resources," he said during a visit to the ongoing DSA exhibition.

Citing the success stories of cooperation among local agencies with the "Eyes in the Sky" programme, the Prime Minister said, the programme was carried out under the Malacca Straits Patrol Initiative, involving Petronas and the Malaysian Armed Forces.

"Oil rigs owned by Petronas were converted into forward operating bases in the sea for security forces to monitor the Malaysian Maritime Zone," Najib said.

He said Malaysia had set an example by adopting the National Blue Ocean Strategy, which encourages inter-agency cooperation and collaboration.

The Malaysian Armed Forces and the Royal Malaysia Police have a long history of working together, not least in fighting communist insurgencies, from the early 1960s to the late 1980s, he noted. The government also collaborated with the private sector to provide protection along the dangerous waters of the Gulf of Aden between 2008 and 2014 to thwart piracy.

President-S, Helicopter Self Protection System Ready for Export

A new Russian self-protection system that caters for the threat presented to helicopters by MANPADs and air-to-air missiles, is now also available for export customers. Every combat helicopter type in the Russian rotary wing fleet is expected to be fitted with the 'President-S' system. These include the Mi-171Sh and Mi-17-V5, Mi-26T2 heavy transport helicopter, Mi-28NE and Ka-52 strike helicopters. "The new President-S will protect helicopters against hostile MANPADs and ensure high flight safety," says Alexander Mikheev, Director General of Russian Helicopters. Already this year, 12 helicopters destined for export customers have been fitted with the President-S and Mi-28NE Night Hunter and Ka-52 Alligators will have the systems fitted in 2017. Mil's Moscow Helicopter Plant is at present conducting tests on a Mil Moscow Helicopter Plant, on a helicopter belonging to an export customer. The President-S comprises of a laser illumination detector, ultraviolet missile approach warning system, electro-optical electronic warfare system, decoy flares, and control system.
Global Turbine Asia (GTA) has signed a Letter of Intent with the Royal Malaysian Navy (RMN) to supply spare parts and provide maintenance services of Turbomeca Arrius 1A engines for its AS 555 SN Fennec helicopters.

“The direct contract between GTA and the RMN clearly reflects our commitment to provide the resources needed to provide the best support to the RMN,” says Dato Nonee Ashirin Bt Dato Mohd Radzi, Executive Chairman and Chief Executive Officer of GTA. The Arrius 1A is one of the basic variants in the Turbomeca’s Arrius family. It powers the newest generation single and twin-engine light helicopters. It is a turboshaft engine and the take-off power ranges between 357 Kw to 530 Kw.

The RM20 million programme will cover 16 engines over a period of two years, Dato Nonee adds. She says maintenance work performed on the Arrius 1A will be a stepping stone for taking up works on bigger engines for helicopters and aircraft. “We are looking at enhancing our capabilities and expect to get the maintenance contract for the TP-400 aero engines for the newly acquired A-400M of the Royal Malaysian Airforce. We expect to sign a contract in this regard in the fourth quarter of 2017,” she adds.

UAE’s Caracal Eyes Malaysia for Future Growth

Emirates Defence Industries Company (EDIC) owned Caracal International, which manufactures a range of modern firearms, is looking at Malaysia as a potential location to set-up its next subsidiary and the first in the region. “I believe that Malaysia is very important for our growth,” Hamad Salem Al Ameri, CEO Caracal tells Daily News. “We have an intention to seriously invest into Asia and this makes DSA the ideal platform for us,” he adds. Caracal is participating at DSA for the first time. The company is presently exploring various locations to set-up another subsidiary, Caracal Asia and what will be the last of the Caracal International subsidiaries, in addition to existing ventures in Germany, Algeria and U.S.A. Caracal is already in negotiations with Malaysian manufacturers to start sourcing and production of parts for the company’s small arms. Small arms and ammunition manufactured by Caracal are in use worldwide and the company products are in widespread use amongst the GCC nations. On display at DSA is the enhanced Caracal ‘F’, a second generation variant of the original Caracal ‘F’. The company is also displaying two important products in the new Caracal 817, 308 calibre, semi-automatic sniper rifle, which is in widespread use with law enforcement agencies in the Middle-East region and is operationally proven and Caracal 816 assault rifle line was built using technology from H&K and Sig Sauer. A version of the Caracal 816 with a 10” barrel, designed for Close Quarter Battle (CQB) and special forces requirements has also proved popular. Caracal offers a wide range of full, compact and sub-compact size pistols; 9mm carbines; and sniper rifles in various calibres, which are certified to NATO standards.
MINDEF is on the Move

Announced was a Letter of Instruction for 'Proof of Concept for Avionic Upgrading Programme for S-61 'Nuri' helicopter.

The Royal Malaysian Navy (RMN) will receive a Harbour Surveillance and Underwater Detection System and a contract was also signed for a Coastal Surveillance System. A contract for the refit of two of the RMN’s Prime Minister’s Class submarines was also signed.

An important announcement for the Royal Malaysian Army was the LOI for the supply, delivery and commissioning of M109A5 self-propelled howitzers (SPH). The increasing acceptance of simulator training for the RMA is seen in the Contract for the supply, installation, testing and commissioning of ‘Immersive Virtual Training Simulator’. The RMA will also receive 222 three tonne GS Cargo trucks and 22 five tonne 4X4 GS cargo trucks.

Helicopters will be deployed with Army Aviation in the Eastern Sabah Security Command (ESSCOM) area. The helicopters will be equipped with a custom armament fit for tactical support roles and the MD530G will be operated by the Malaysian Army’s Aviation Unit.

Additional agreements and contracts were also announced for the RMAF and these include the rental of a Eurocopter EC120B for basic pilot training and an LOA for Ageing Aircraft Fleet Technical Management Training for RMAF Lockheed Martin C130s. Also announced was a Letter of Concept for Avionic Upgrading Programme for S-61 'Nuri' helicopter.

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AV4 Will Now Be Lipanbara

First Win MRAPs, marketed by Deftech as the AV4, will from now on be called Lipanbara. The new name was launched by the Prime Minister Datuk Seri Najib Tun Razak on the opening day of the DSA exhibition. A prototype of the vehicle is being displayed for the first time at the DSA.
China Pavilion Attracts International Attention

Leading Chinese defence companies are showcasing military equipment at the DSA.

Three Chinese companies, Poly Technologies, China National Precision Machinery Import and Export Corporation (CPMIEC) and CETC International are displaying their latest products and technology in a China pavilion themed China Defence with static equipment, illustrations and videos.

“Chinese defence equipment is becoming more and more appealing internationally in recent years,” said Wang Xingye, vice president of Poly Technologies.

CETC International, a state-owned company specialised in defence electronics and information technology, brought its air defence system, costal defence system, ship-borne integrated warfare system, all could be tailor-made for the need of the customers.

Zhao Ming, president of CETC International, said his company hopes to promote the sale of equipment with more focus on the display of the integrated systems.

One of the highlights of the China pavilion is the model of the Ying-Ji-802 land attack and anti-ship cruise missile. The C-802A is an improved version of the C-801 which employs a small turbojet engine in place of the original solid rocket engine.

The Yingji-802 can be launched from airplanes, ships, submarines and land-based vehicles, and is considered along with the US “Harpoon” as among the best anti-ship missiles of the present-day world. The C-802A is a 6.8m (21 foot) long, 360mm, 682kg (1,500 pound) missile, with a 165kg (360 pound) warhead. The C802 has a max range of 120 kilometers, and moves along at about 250 meters a second.
UMS SKELDAR Sees Big Opportunities in SE Asia

UMS SKELDAR, one of the world’s largest designers and manufacturers of remotely piloted aircraft systems (RPAS), sees South East Asia as the biggest market for mid-range UAVs.

The newly formed joint business between Saab and UMS AERO Group is showcasing its combined unmanned aerial vehicle at the DSA, with an eye on the huge potential the region has for the maritime UAVs.

In conjunction with its regional partner CWT, South East Asia’s largest logistics business, and on the back of contracts agreed with governments in Singapore, Indonesia, Saudi Arabia and the UAE, the company has declared Asia-Pacific and Mideast as priority regions.

“There is a great interest for the UMS SKELDAR V-200 in the region, especially Malaysia, Brunei, Thailand and Indonesia as the system is designed to provide real-time intelligence and surveillance as a force multiplier for land, civil security and maritime applications,” says George Duncan, Asia-Pacific Business Development Director for UMS SKELDAR.

The formation of UMS SKELDAR through Saab and UMS AERO has truly propelled the business into a global and expanding market.

UMS SKELDAR brings together the four platforms to create Europe’s only provider of high endurance vertical take-off (VTOL) and fixed wing UAVs, across the 3-12+ hour endurance range, namely the Fixed wing: UMS F-330 and UMS F-720 and Rotary/VTOL (Vertical Take-Off and Landing): UMS R-350 and SKELDAR V-200 – an innovative UAV using the technology of Saab, ideal for civil security and military operations.

The company also has announced the commencement of a managed services contract in the APAC region. The programme, which has been organised through APAC logistics partner CWT, involves roll out of a six-week training course to the Indonesian Army.

Incorporating three F-330 fixed wing systems, which can be deployed in applications including convoy support, route surveillance, reconnaissance and direct support, the intensive training programme has been designed to provide operatives with all aspects of UAV management from ISR through to UAV piloting. The programme will be delivered by teams led by UMS SKELDAR Training Director Ewen Stockbridge Syme, who was instrumental in introducing ISR as a capability to the UK Military and in assisting the US Air Force to understand and implement tactical real time intelligence generation.

The Indonesian Army is looking to improve its border security and border control and will soon start trials patrolling its huge coastline and territorial waters. Indonesia’s total land area is 1,919,317 square kilometres (741,052 sq mi). Included in Indonesia’s total territory is another 93,000 square kilometres (35,908 sq mi) of inland seas (straits, bays, and other bodies of water) and is ranked by some as the world’s second longest coastline. The additional surrounding sea areas bring Indonesia’s generally recognised territory (land and sea) to about 5 million square kilometres.

“Close on the heels of the Australian Defence White Paper and numerous border disputes between China and ASEAN countries, RPAS strategies are becoming increasingly important, given the vast expanses of ocean and difficult land terrains,” adds Duncan.
UTILIS Malaysia is displaying its tactical shelters which have been well appreciated by the Malaysian Armed Forces. The modular shelters are in use with the Royal Malaysian Army. “The shelters are of superior quality and durability and should be the future tents for the Malaysian Armed Forces,” says Azizi Dato Nordin, Director UTILIS Malaysia. Commenting on the durability of these high quality tents, Azizi says, “The first tent delivered to Malaysia in 2000 is still in use.” As a local manufacturer, UTILIS is well placed to respond to local needs and especially able to provide high levels of support for the products under its umbrella. Exports of these high quality structures have also commenced.

CAE Showcases Caesar Trauma Simulator

CAE’s Caesar trauma patient simulator on display at the show, is a vital aid for first responders handling disaster response and combat casualty care. With life-sized realism and modelled physiology, Caesar is the most rugged patient simulator available with clinical accuracy for basic to advanced point-of-injury training. With Caesar a variety of extreme scenarios can be simulated for trauma patient care. First responders can be trained to handle tourniquet placements, patient decontamination, with levels of realism never possible before on the 6-foot-4, 150 pounds mannequin. The incredible realism of the mannequin can be gauged from eyes and speech that reflect simulator’s state of consciousness, medical conditions, which provides highly realistic training. Even pain levels can be shown by the simulator, through eyes and speech. The most extreme trauma medical emergencies can be simulated by Caesar as a result of a 1.4L on-board blood tank capacity and six bleeding ports. The Caesar trauma patient simulator has been well appreciated by disaster management teams and military forces around the world. The Caesar simulator has received an encouraging response in the Asia-Pacific region and a number of units have also been sold to the Australian Army by CAE.
Sig Sauer Showcases New Generation Sniper Rifle

A new sniper rifle is on display at DSA, Sig Sauer’s SIG716 DMR G2, is a new offering that features a number of key changes and is attracting interest from users in the region as well. Company officials tell Daily News, “The SIG716 DMR G2 is closer to an assault rifle in weight, while offering true sniper class performance.”

Compared to the older DMR version of the weapon, the new G2 comes with a continuous top rail with key mod option. The two position gas system is more user friendly as compared to the older four position gas system. Changes also include, the incorporation of steel deflector and a more durable upper receiver. The changes along with other modifications have resulted in the weight of the SIG716 DMR G2 being reduced by four pounds. As a result, even when fitted with a scope and silencer, the DMR G2 weights as much as the older SIG716 DMR did in clean configuration.

Ergonomics of the new weapon are further enhanced as a result of ambidextrous charging, magazine catch and selector.
Prime Minister Datuk Seri Mohd Najib Tun Razak has formally launched the Royal Malaysian Police’s (PDRM) Smart Lock-Up which is on display at the ongoing DSA Exhibition and Conference.

The Smart Lock-Up is a system designed by the PDRM with the cooperation from the Science, Technology and Innovation Ministry, and is developed by the Malaysian Institute of Microelectronics System (MIMOS).

As a pilot project, the Smart Lock-Up will be built at Jinjang police station centralised lock-up, and later will be expanded to all police stations nationwide. Jinjang Police Centralised Lock Up chief ASP Edmond Wong said the smart lock-up system had been installed since early February in all lock-up rooms on the first floor of the building.

“The feedback we received so far is good. We will install the system on all lock-up buildings in Jinjang next month,” he told Bernama news agency.

The Smart Lock-Up system has been able to detect any suspicious movement of detainees, including attempts to create commotion in lock-up.

“The Smart Lock-Up system is equipped with cameras which will record every movement of detainees, and if a suspicious act or movement is detected, the system will alert the officer on duty. “This will help the police to take quick action to prevent any untoward incidents,” he was quoted as saying.

Wong said the system would also optimise the operational productivity in lock-up and ensure safety of detainees.

Small arms manufacturer Sig Sauer is displaying its MCX Mission Adaptable Weapon for the first time at DSA. The MCX is available in three variants; SBR, MCX Carbine and MCX Pistol. The MCX features a familiar, AR-style ambidextrous selector, bolt release, magazine release and charging handle. SIG's gas-operated, short-stroke piston system reduces recoil and fouling, making the weapon easier to use and operate. The light and short MCX was designed from the start to be light and short and be silenced. Officials at the stand tell Daily News, that a barrel change on the MCX takes two minutes.

Military products from Ukraine that are on display, represent battle proven technologies and affordable solutions such as the armoured personnel carrier (APC) Dozor-B. A full scale mock-up is on display and the APC is already in service with the Ukrainian Army. The Ukrainian companies are being represented by Ukroboronprom, which represents the new developments of Ukraine's military-industrial complex. Speaking to Daily News an official says, “Ukraine's defence industry is proven and well known in the world of defence products. Our products offer the most modern technology at an affordable cost.”

“We view DSA as an important event for participation, to further develop the market for our products,” he adds.

The DOZOR-B is a 4x4 armoured fighting vehicle (AFV) that can transport troops and be fitted with various light weapons, communications devices, and special equipment. It has an overall weight of approximately 7.1 tonne, it can carry eight troops along with three crew. Ukroboronprom is also focussing on export of innovative radar systems in 2016 and has also been working on counterbattery radars and signals intelligence stations for the Ukraine Armed Forces. Ukrainian radar systems were supplied to two countries last year and high-technology air surveillance systems, worth several million dollars, are a key focus area for Ukroboronprom.
Roketsan's UMTAS and L-UMTAS on Display

Roketsan is displaying its Long Range Antitank Missile System UMTAS and Laser Guided Long Range Antitank Missile System L-UMTAS at the DSA Exhibition.

Long Range Antitank Missile System known as "UMTAS" has been designed to fulfil the requirements of attack helicopters against modern main battle tanks with heavy armour penetration. The system is capable of operating in all weather and day/night conditions with "Fire and Forget" and "Fire and Update" modes with a maximum range of 8 km. UMTAS with the flexibility provided by its Lock-On-Before Launch, Lock-On-After Launch, Lock-On-Update capabilities, offers extensive engagement to targets behind the mask position with adjustable hit point and enabling damage assessment.

Long Range Antitank Missile System comes in two versions, primary version is equipped with Laser Seeker named "L-UMTAS" and the follow-up version will home an Imaging Infra-Red (IIR) Seeker to be used from a common launcher. Both are equipped with state of the art technologies making it effective against all armored threats of the modern battlefield.

The development and qualification of the Laser version L-UMTAS have been completed in 2015. L-UMTAS missile has demonstrated its capability from T-129 ATAK helicopter against land targets and from SH-60 Sea Hawk against sea targets.

"With the success of these firing tests, L-UMTAS production has been started for the Turkish Armed Forces to be delivered within 2016," a Roketsan official says.

The L-UMTAS and CİRİT, defined as the official missile systems of the T-129 ATAK, use the common designation characteristics which enable combining both systems in the same configuration for optimised solution allowing a more lethal effect. L-UMTAS can be integrated on various platforms such as Helicopter, UAV, Land Vehicle, Stationary Platform, Light Assault Aircraft, and Naval Platforms.

Seeking Market Entry

Malaysian special vehicles firm which AVP Engineering, which has been in business for over two decades is showcasing the Doosan Black Fox armoured personnel carrier (APC) and its GS 5 tonne truck. AVP is looking to create market acceptance for a 6X6 APC, where the trend is for 8X8 APCs. A senior company official tells, Daily News, "We are trying to penetrate the Malaysian market with a 6X6 and our user’s trials for the 6X6 have received a positive response from operators. However, acceptance of 6X6 APCs is yet to become commonplace, with senior military officials not being thought to be as favourable towards such vehicles. The requirement for the Black Fox, is presently being targeted at the Royal Malaysian Army modernisation and upgrade efforts. Most important highlight of the Black Fox is its spacious internal cabin despite being a 6X6. AVP engineering officials estimate a demand for approximately 300 units of this class of APC. Originally developed by Doosan, the Black Fox can carry up to 12 soldiers, which may change depending on operation purposes. The 400-horse power engine on the Black Fox allows it unrivalled mobility across terrain, with its 7-speed fully automatic transmission being optimized for such tasks. The company also recently received an order from the Malaysian Army for 22 GS 5 tonne trucks. The total requirement for this class of vehicle in the Malaysian Army is in excess of 60 trucks. The company is also negotiating with other Malaysian ministries for an additional order for more than 30 APCs."
The Advanced Military Maintenance repair Overhaul Center (AMMROC), the UAE’s specialised military MRO service provider to all ranges of military aircraft in the Middle East, North Africa and South Asia regions, sees a lot of opportunities in the region.

“Being the leading MRO firm in the UAE, providing total solutions from nose to tail, including performance based logistics to the UAE Airforce fleet, we expect some interest from the Royal Malaysian Airforce as it has similar programmes here,” Fahed Al Shamesi, Chief Executive Officer of AMMROC tells Daily News.

The company is looking at strengthening its existing relations with Malaysia and the region. “This is an interesting market and we are trying to find support for our products here,” he says.

AMMROC offers MRO service for a wide range of fixed and rotary wing aircraft. AMMROC’s extensive experience with overhaul and maintenance of Lockheed Martin platforms makes it well placed to cater the needs of operators in the region flying the C-130 and BlackHawk.

“With several countries outsourcing the maintenance of their air force aircraft, AMMROC is well placed for growth… We have always invested in the future growth of the aerospace industry in the UAE. Growing our business outside the Middle East has been a long-term strategic goal, and through these exhibitions and interactions we continue to demonstrate the ever-expanding range of latest technologies in the MRO services that we provide,” Al Shamesi adds.

AMMROC has standardised all the UAE Air Force bases, simplifying the MRO and logistics activities.

AMMROC continues to expand as it leverages world-class capabilities, a highly skilled workforce and innovative technologies to deliver robust MRO solutions that provide military operators with the highest level of aircraft readiness, fleet deployability and safety.

“We are growing and our objective for the next two-three years is to build capabilities in high-end areas. But at the same time we don’t want to duplicate capabilities that are already available with our customer,” he says.

UAE’s AMMROC Keen on South East Asia Market

AMMROC Ties Up with Destini Berhad
AMMROC has signed a Memorandum of Understanding with Destini Berhad to work towards establishing a strategic alliance to provide aircraft escape systems MRO services for companies in the South Asia, Middle East and North Africa (SAMENA) region.

The MoU paves way for both companies to expand their aviation MRO services to include MRO services for escape systems provided from AMMROC’s new regional state of the art MRO facility in Al Ain.

“AMMROC continues to seek out and partner with world class aviation industry experts to enhance its local capabilities, increase the knowledge base of the UAE, and drive revenue growth for the company,” Al Shamesi says.
Sofradir Begins Production of Daphnis HD

Sofradir, maker of advanced infrared (IR) detectors for military, space, scientific and commercial applications will start production of its Daphnis HD.

“The decision to launch production follows the positive feedback and subsequent new orders Sofradir has received from select customers who have been extensively sampling the product,” says Thierry Dupoux, R&T director at Safran-Sagem.

The 10-micron pixel pitch high-definition IR detector claims superior performance against recently launched competitive 10μm products.

Safran-Sagem counts among the system-level equipment makers selecting Daphnis HD MW in order to meet end-customer demands for more recognition and identification ranges on optronic products.

“High-end optronic equipment is required to carry increasingly more functions in constrained volumes. From this standpoint, the reduction in pixel pitch size of Daphnis FPA enables improved performance across all dimensions of an ISTAR mission: without compromising the compactness of the optronic product. This is another strong market request,” says Dupoux.

modernised version of the AERO Vodochody L-39A with an improved fuselage, new wet wings, Williams International FJ44-4M, fully integrated avionics suite with glass cockpit, single-point pressure refuelling and redesigned airframe with a fatigue life of up to 15,000 hours. It will enter service in 2018 and mass production for the advanced trainer will commence at the end of 2018.

Approximately 400 L-39As are still in use with customers worldwide and potential operators could find the claimed cost/per flight hour of below US$2,500 an attractive proposition. Development of the aircraft has been divided into two phases; the first was integration of the FJ44-4M engine and avionics into an existing L-39, the second step is the development of the brand-new L-39NG. Interestingly, existing L-39 operators can choose to re-engine their aircraft with the Williams FJ44-4M. The same engine can be installed in an L-39NG, providing additional flexibility and allowing existing customers the option to reduce their aircraft life cycle costs.

The L-39NG is the largest Czech military programme underway and Omnipol is Aero’s strategic sales partner in selected territories.

RMAF Su-30 MKIs May Get New NVGs

RMAF Su-30 MKI pilots will receive a demo of Gen 3+ night vision goggles (NVGs) from LEMT, which is part of the Belarus based firm BelOMO. LEMT officials tell Daily News, that the RMAF will soon receive a demonstration of the new generation NVGs, which do not require the cockpit lighting to be NVG compatible and allow the pilot to see out in darkness to 500 meters. BelOMO is one of the largest optical companies in Eastern Europe with over 6,000 employees. The company is a well-known producer of high-quality optical sights for small arms, including Thermal Imaging (TI) and Night Vision Sights. The company is also showcasing a unique a solution for upgrading the day sights on RPG-7 launchers to day and night sights. The company also has on display its patented periscopic red sight, which can also be used for cornershot devices. With a product portfolio of over 200 devices, LEMT, has bought a number of selected products for display and demonstration.
MBDA Proposes Next Generation Air Defence with EMADS

MBDA is proposing EMADS, a next generation ground based air defence system featuring Soft Vertical Launch (SVL) technology as the solution to deal with rapidly proliferating airborne threats so that air forces can meet their growing air defence challenges. EMADS is a highly flexible, all-weather area air defence capability, which will enter service with the British and Italian Armed Forces, providing protection against a full spectrum of modern air threats at ranges up to 40km. MBDA’s CAMM (Common Anti-Air Modular Missile) and CAMM-ER (the Extended Range variant) will be the missile deployed on EMADS deploys, offering engagement ranges of 25km and 40km respectively.

CAMM qualification firings started in 2015 and will be concluded before the end of this year. The missile will enter service with the British Army as a direct replacement for its current Rapier (known as Jernas on the export market) air defence system shortly after completion of the qualification firings. EMADS also offers unmatched flexibility to meet the most challenging of requirements. Any standard 8x8 vehicle chassis can accommodate the lightweight launcher, which can be mounted on and can be quickly dismounted for remote operation. A concealed EMADS launcher can be deployed quite readily from a small clearing in dense jungle undergrowth for example.

The agreements singed as part of the offset requirements to be delivered for the 2012 contract to supply turrets and integrated weapon systems for new generation of armoured vehicles to be used by the Malaysian defence force are delivering long-term benefits to Malaysia as they benefit from increased South African spending on technology research and development sector.

Zwelakhe Ntshepe, the Acting CEO of Denel SOC says the relationship between the South African and Malaysian defence industries will be expanded with the signing of the new agreements. “We are rapidly moving into new areas of cooperation on knowledge-sharing and joint research, especially in the vital terrain of electronic warfare. “This will open doors within Malaysian markets for other South African defence and manufacturing companies and provide us with a vital foothold into the rapidly-expanding Asia-Pacific region,” says Ntshepe.

The 2012 contract for turrets and integrated weapon systems, designed and developed by Denel Landward Solutions (DLS), is the largest export contract in Denel’s history. Denel has already signed two agreements companies in the Malaysian industry during this week’s exhibition.
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The A400M gets vital outsized equipment to the heart of a crisis zone

In a humanitarian crisis, when roads are blocked and airports are down, immediate action can be the difference between life and death. The A400M’s ability to deliver heavy loads to unpaved runways makes it the best aircraft in the world to deal with such crises. It can carry up to 37 tonnes of supplies, equipment and personnel to the heart of a disaster. This versatile airlifter can even transport vehicles and mobile hospitals if needed. Put simply, the A400M is a lifesaver. Find out more at airbusds.com/A400M