**REQUEST FOR INFORMATION (RFI)**

**Supply and Support of Pre Hospital Emergency Care (PHEC) Ultrasound Devices**

**BACKGROUND**

In April 15 the MOD signed a contract with Leidos Europe Ltd to provide the procurement and inventory management of commodity items (as well as the storage and distribution services) historically provided in-house by the Logistic Commodities and Services Operating Centre. Leidos, working with the MOD, will transform the way these services are delivered to ensure requirements continue to be met whilst providing best value for money for the department. The organisation delivering these services is known as Team Leidos.

**FUTURE ARRANGEMENTS**

Further to our Request for Information (RFI – first issued 22.08.2019 [Click Here for Link](https://www.contractsfinder.service.gov.uk/Notice/820f9446-f6d3-4c4e-864e-e979ed523147?p=@FQxUlRRPT0=NjJNT08=U)) for Diagnostic Ultrasound Devices (DUS - reference LSL/MED/0063), Military Radiology Specialists within both the Emergency and Secondary Health Care environments have expressed an interest in seeing a broader range of devices as part of our upcoming Industry Day.

The Industry Day has been scheduled to take place on the **17th October 2019** at the address listed below. Please contact Team Leidos for booking confirmation using the following details:

Contact person: Konstantin Nikolov

Telephone: +44 117 332 8575

E-mail: [Konstantin.Nikolov100@teamleidos.mod.uk](mailto:Konstantin.Nikolov100@teamleidos.mod.uk)

**Industry Day Information - Thursday 17th October 2019**

Address

RAF Brize Norton

Main Gate

OX18 3LX.

Arrival Time

From 08:00 - Suppliers will be required to check in with Security at the Main Gate and obtain a pass before being directed to allocated parking.

Duration

The event is scheduled to start at 10:00 and finish at 15:00.

An exact itinerary for the day including updated running times, and information required in advance for access to site, will be provided to confirmed attendees closer to the event.

**UPDATE FOLLOWING RFI RELEASED 22.08.2019**

Team Leidos’ original intention was to plan an Industry Day to reflect the requirement for DUS devices only (for use in Regional Rehabilitation Centres). Whilst there have been **no changes to the DUS requirement** (Ref-LSL/MED/0063 - referenced within the PIN issued 08.08.2019 or subsequent RFI released 22.08.2019), thescope of the Industry Day has widened to include viewing a broader range of devices.

To this end we would like to invite suppliers to showcase devices with the capability to provide Pre Hospital Emergency Care (PHEC) within **a range of military environments**. It’s our intention to furnish a wider audience of Military Radiology Specialists with enhanced industry knowledge, to help with the development of future projects.

In total, there are now three types of Ultrasound Device that Military Radiology Specialists would like to view during the Industry Day;

1. Diagnostic Ultrasound Devices (DUS) for use in Regional Rehabilitation Centres – **please review the link to previously published RFI.**
2. Examples of highly portable Handheld Ultrasound Devices to be used to provide PHEC within a range of deployed military environments.
3. Examples of other portable Ultrasound Devices (Lap-Top Style Devices etc.) to be used to provide PHEC within a range of deployed military environments.

**However please note that only the DUS requirement is an active procurement exercise at this time with an intention to award contracts commencing within 2020.** The inclusion of PHEC devices within the scope of the Industry Day is purely for information purposes and to allow users to get a full appreciation of what is available within their market.

The KURs below (which are subject to amendment) have been included for information purposes only to help guide suppliers on the styles/types of devices we currently feel are suitable for delivering the Deployed Specialist Pre Hospital Emergency Care Teams requirement for Ultrasound Capability and the primary information on expected basic examinations that a Level 8 in Pre-Hospital Emergency Care should perform.  Please note that a full list of these examinations has been listed further below.

**Device Type – Handheld Devices**

There is interest in viewing handheld and highly portable Ultrasound devices for use by PHEC Teams;

The ultrasound system (USS) must be easily man-portable: ideally pocket sized or similar. It should be sufficiently robust to operate in most land environments, whilst in the air and in a protected maritime environment (i.e. below deck).

**Key User Requirements (KURs)**

|  |  |  |
| --- | --- | --- |
| ID | KUR | Remarks |
| 1 | The system shall be able to perform examinations at both high and low frequencies of ultrasound. | High frequency required for assessment of veins or nerves.  Low frequency required for assessment of deeper cavities e.g. FAST scan. |
| 2 | The system shall be hand-held, easily portable in hand and have internal power sufficient to complete examination of at least 24 casualties. | Enable Medical Emergency Response Teams (MERT) to provide damage control resuscitation for 1xT1 every 30 mins for 12 hrs, i.e. 24 cas. Estimate one patient examination to take <10 mins. |
| 3 | The system shall be sufficiently robust to be used in a range of geographical environments. | One system required to cover air, land and sea including the littoral environment. |
| 4 | The system should be able to store clinical images in order to allow clinical review and governance processes to take place. | The ability to export images, either with removable media or other means is desirable. |
| 5 | The system will be rated for use in all current UK armed forces aircraft, ships and vehicles. | Must be air-cleared on all potential (MERT) platforms. |

**Device Type: Other Portable Devices i.e. Lap-Top Style**

Alongside examples of handheld Ultrasound Devices, there is also an interest in exploring Portable ‘Lap-Top’ style Ultrasound Devices;

A portable system suitable for general Ultrasound including point of care Ultrasound, able to image a range of body parts and with variable settings. It requires adjustable gain (overall and time gain compensation), depth, focus, power and colour Doppler, ability to flip images, provide extended field of view (panoramic), and provide calliper measurement and split screen. Dynamic range, harmonics and compounding are mandatory.  A minimum of 3 transducers: 1 high frequency linear probe, 1 low frequency curvilinear probe and 1 cardiac probe is also required. The system must be capable of saving/storing static images and short video clips in DICOM[[1]](#footnote-1)[1] format and transferring these images to external storage, including the MOD Picture Archive and Communication System.

**Key User Requirements (KURs)**

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| A method of delivery that utilises an electrical power source to provide a portable system which has the ability to be carried independently or on a cart. | * Mains power 110 & 230/240 V/50–60 Hz, max 13 amps. * The system **must be portable**. * Ability to enhance the system through a stand is desirable. |
| The system must be suitable for general US, including but not limited to, trauma, point of care scanning, abdomen, MSK, small parts, cardiac and US guided intervention. | Image features to include:   * Power and Colour Doppler (non-directional and directional) * Image flipping L/R and up/down * Extended field view (panoramic) * Calliper measurement capability * Greyscale level: 256 * Frame rate (FPS): >1900fps * Software algorithms to measure blood volume changes, such as IVC variability and LVOT |
| 1 x Linear high frequency probe  1 x Cardiac probe  1 x Low frequency curvilinear probe | * Availability of replacement probes are to be included in the solution. |
| DICOM Image functionality | * DICOM Store and Worklist is essential. |
| Solution must provide Through Life Support (TLS) including annual software updates and servicing. | * The TLS solution must cover routine maintenance and repairs (including parts & provision of replacement unit while repairs are being conducted). * Annual software updates must be done manually (not via remote access) alongside annual machine servicing. |
| Still image and video clip image saving/storage | * The machines must have capability for internal and external hardware (encrypted) image storage. |
| Solution available for breakdowns. | * Provide a call out service for breakdowns at UK and NI locations, during normal working hours, Mon-Fri with a minimum 5 working day turnaround time for attendance. * Machines to have the ability to remove data storage devices prior to repair or return. * Remote access is not permissible. |
| The system must be CE marked to comply with all EU & UK and all current RCR safety guidelines. |  |

Both styles of device described above must be able to complete the set of Emergency Medicine examinations detailed below.

**A SUMMARY OF ULTRASOUND EXAMINATIONS EXPECTED TO BE PERFORMED BY LEVEL 8 S-PHEC PRACTITIONERS (MERT CONSULTANTS)**

**Background**

**1.** This list is designed to illustrate the basic examinations that a Level 8 Specialist in Pre-Hospital Emergency Care should be required to perform.

**2.** This list is based around the Royal College of Emergency Medicine’s Core level ultrasound competency, which is what can be expected of the non-radiologist in a UK Emergency Department.

**3.** This list does not constrain future practice or the development of new examinations relevant to military casualties, but should be seen simply as a starting point.

**Examinations**

**4. Extended, Focused Assessment with Sonography in Trauma (eFAST).** This involves taking low frequency images in four areas (a–d), and high frequency images in a further two (e–f):

1. Pericardium, to assess for pericardial fluid.
2. Lieno-renal pouch, to assess for intra-abdominal fluid.
3. Hepato-renal pouch, to assess for intra-abdominal fluid.
4. Vesico-rectal pouch, to assess for pelvic fluid.
5. Left chest wall, to assess for pneumothorax.
6. Right chest wall, to assess for pneumothorax.

**5. Vascular access.** Using high frequency ultrasound to assess peripheral and central veins in order to gain venous access.

**6. Emergency echocardiography.** Using a phased array probe to visualise the heart using in 3 views (PLAX, PSAX, A4C) to assess for cardiac wall motion or wall motion defects, presence of clot in the right ventricle and left ventricle filling assessment.

**7.** **Nerve blocks.** Using high frequency ultrasound to perform regional nerve blocks such as femoral nerve block.

**8.** Alternative examinations, such as assessment of the abdominal aorta, inferior vena cava or ocular examination for foreign bodies, may be added by clinicians who are suitably qualified and experienced to perform them.

**ASSOCIATED CPV CODES**

33124120 – Diagnostic Ultrasound Devices

33100000 – Medical Equipments

33120000 – Recording Systems and Exploration Devices

33124000 – Diagnostics and Radiodiagnostic Devices and Supplies

33110000 – Imaging equipment for Medical, Dental and Veterinary use

33112000 – Echo, Ultrasound and Doppler Imaging Equipment

33112300 – Ultrasound Scanners

33000000 – Medical Equipments, Pharmaceuticals and Personal Care Products

**PROCESS**

Team Leidos wishes to stimulate interest, information and views across the market for the supply of this requirement via this Request for Information (RFI) together with other companies whom Leidos believes may be able to provide useful intelligence on our requirement.

**We do not require pricing at this stage, we are only interested to know which products, if any, you are able to supply. Please provide relevant Product Brochures and Specifications as appropriate.**

**If possible please provide a response to this RFI within 5 working days.**

**QUESTIONNAIRE: TO BE FILLED IN BY INTERESTED SUPPLIER**

**I - Company Information**

Full Legal Company Name:

Company’s House Registration Number (if applicable):

Company Address:

Company Website:

Account Manager Name:

Account Manager Direct Email:

Account Manager Direct Phone:

Team Leidos is seeking information / views and would be grateful if you could answer the following questions:

**II Company Capabilities-** General

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| **Question** | **Answer** | **Comment/Detail** |
| Can you confirm if you are a distributor or manufacturer?  (D/M/Both) |  |  |
| Do you provide user/ maintainer training for your products?  Is this provided in house or via a 3rd party?  Are you able to provide Train the Trainer courses?  Please detail your standard offering including duration of course and documentation provided. |  |  |
| Do you offer a Service Support package?  Is this provided in house or via a 3rd party supplier?  Please provide detail on your offering including PPM & Break Fix support. |  |  |
| Do you provide a warranty? If yes, how long is your standard warranty and what will / won’t the warranty cover? |  |  |
| Are your product(s) CE Certified? |  |  |
| Are your product(s) compliant with all current RCR safety guidelines? |  |  |

**III Company Capabilities-** Diagnostic Ultrasound Devices (DUS) for use in Regional Rehabilitation Centres

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| **Question** | **Answer** | **Comment/Detail** |
| Can you provide details of the equipment that will meet the requirements listed above and provide Product Brochures? |  |  |
| What are the dimensions of your products and how much space is required for demonstration/ training purposes? |  |  |
| What is your standard lead-time for supply to central warehouse (Donnington - TF1 7GY) and installation in Medical facilities? | Supply to warehouse: | Installation at UK Medical Centres: |
| Are you currently providing these products elsewhere in the **Public/Private Healthcare Sector**? (If so please detail where possible) |  |  |
| Are you currently providing these products elsewhere to any **Military Organisation**? (If so please detail where possible) |  |  |

**IV Company Capabilities-** Highly Portable Handheld Ultrasound Devices

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| **Question** | **Answer** | **Comment/Detail** |
| Can you provide details of the equipment that will meet the requirements listed above and provide Product Brochures? |  |  |
| What are the dimensions of your products and how much space is required for demonstration/ training purposes? |  |  |
| What is your standard lead-time for supply to central warehouse (Donnington - TF1 7GY) and installation in Medical facilities? | Supply to warehouse: | Installation at UK Medical Centres: |
| Are you currently providing these products elsewhere in the **Public/Private Healthcare Sector**? (If so please detail where possible) |  |  |
| Are you currently providing these products elsewhere to any **Military Organisation**? (If so please detail where possible) |  |  |

**V Company Capabilities-** Other Portable Ultrasound Devices (Lap-Top Style)

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| --- | --- | --- |
| **Question** | **Answer** | **Comment/Detail** |
| Can you provide details of the equipment that will meet the requirements listed above and provide Product Brochures? |  |  |
| What are the dimensions of your products and how much space is required for demonstration/ training purposes? |  |  |
| What is your standard lead-time for supply to central warehouse (Donnington - TF1 7GY) and installation in Medical facilities? | Supply to warehouse: | Installation at UK Medical Centres: |
| Are you currently providing these products elsewhere in the **Public/Private Healthcare Sector**? (If so please detail where possible) |  |  |
| Are you currently providing these products elsewhere to any **Military Organisation**? (If so please detail where possible) |  |  |

**Summary**

**The results and analysis of this RFI shall not constitute any form of pre-qualification exercise and any formal procurement process will be undertaken in accordance with EU Procurement Law.**

Nothing in this RFI, or any other engagements with Industry prior to a formal procurement process, shall be construed as a representation as to Leidos’ ultimate decision in relation to the future requirement. The publication of this RFI and associated documents in no way commits Leidos to pursue any tender process for the requirement.

Please be aware that the information contained within this bulletin or any other information supplied as a result has not yet been validated by any MOD technical authority, therefore may contain assumptions. Team Leidos would be grateful if any interested parties could highlight any such inaccuracies, along with any other observations that they would like to make.

1. [1] DICOM \_Digital Imaging and Communication in Medicine. A standard for exchanging digital information between medical imaging equipment and other systems (Electronic Health Record) in insuring interoperability. The standard is a set protocol between two devices and was developed by the American College of Radiologists. [↑](#footnote-ref-1)