**REQUIREMENT FOR THERMAL CAMERAS**

**Background**

Border Force Officers need to be able to detect humans who are evading discovery in open spaces of poor visibility (e.g. in the dark). Typically, these locations are maritime ports including beaches, open environments where foliage may be present and other remote areas. Therefore, there is a need for thermal cameras to assist Border Force Officers in the detection of said humans, and to undertake surveillance operations during times of little light as efficiently and effectively as possible.

**Requirements**

We require the delivery of up to 20 x thermal cameras that can aide searches over long (minimum of 1000m range) as well as short distances. The detector resolution and spatial resolution must both be high enough to provide precise and reliable measurements of smaller targets from further distances and should not be compromised by screen resolution. Images/live video need to be viewed via integrated video capability or small screen attachment with SD card or external memory capability. Further to high resolution imaging the outputs should be ‘live’ and therefore have an appropriate frame rate that will aide in the detection of humans.

Thermal images need to be interpreted quickly, accurately and as intuitively as possible. It would also be advantageous for the thermal camera to have settings that can reduce reflectance of the target and thus improve the measurement accuracy (in order to compensate for low-emissivity on targets).

The device must be durable, i.e. able to withstand accidental drops, suitable for all UK weather conditions including rain and wind and the temperature range be suitable in the detection of humans. It would be desirable if the device was also fitted with a “time out” feature, where it will automatically shut down if not used for a continuous period of 15 minutes.

Furthermore, it needs to be compact and light-weight to be carried for extended periods. It would be preferable to have at least 5 hours battery life or alternatively the option to recharge via car port charge or interchange batteries. Ultimately, the device must be rechargeable. All software upgrades must be able to be completed through wi-fi or physical media.

The market should bear in mind that the requirements outlined above are to detect humans and to keep that in mind when responding.

There must be a maximum 8-week (40 working days / 56 calendar days) delivery lead in time from receipt of Home Office purchase order by the successful bidder to delivery of the items to the Border Force delivery address. The locations for delivery will be within mainland UK including Northern Ireland.

**Please provide the following in your response:**

The full, detailed specification in how the product meets the requirements outlined above, including the following General Details/Information:

* Operating Environment (including liquid resistance, dust and water proofing, relative humidity),
* Software Features (including conducting of upgrades) and Camera Specification.
* The range it covers for people and vessels
* Temperature range
* Thermal detector resolution and screen resolution
* The Hertz of the camera (frame rate)
* Size of the camera screen (not scored)
* Field of view
* Focus/ Zoom capability if any (not scored)
* The delivery lead in time from receipt of Purchase Order, if lower than 8 weeks from receipt of Purchase order (not scored).

**Additionally, please indicate:**

* Any licensing requirements or mandatory actions from Border Force in order to procure these items and have them delivered to multiple locations once contract is awarded. Please outline procedures and timelines for how this will affect lead and delivery times if applicable. (This will **not** be scored.)
* Details of any training or user guides included.
* Details of warranty provided including any extension costs.
* The cost (parts and labour) to carry out an examination on performance (under COSHH regulations) for 3 years.
* Details of any Service Plans available, indicating terms, costs etc
* Details for repairs including a breakdown of parts and labour where relevant (outside of Service Plan).
* Details of any help and support available in case of problems/faults.
* Prices for any relevant accessories.

**Information for bidders:**

Any questions, queries or clarifications regarding this tender should be submitted to [Paul.Tooke@homeoffice.gov.uk](mailto:Paul.Tooke@homeoffice.gov.uk) by 11.59am on Tuesday 20th October 2020 at the latest.

All written submissions should be submitted to [Paul.Tooke@homeoffice.gov.uk](mailto:Paul.Tooke@homeoffice.gov.uk) by 11.59am on Thursday 22nd October 2020 at the latest.

All potential bidders must confirm in writing within their submitted bids that the personnel that they will provide to service this requirement must meet all the above mandatory standards & requirements. Any non-compliant bids will **not** be accepted.

Please provide 1 x fixed price which must be valid until 31st March 2021, for 1 x thermal camera that meets all the standards set out in the above Requirements section. The fixed price should include delivery to any United Kingdom delivery address. The bidder offering the lowest technically compliant unit price will be awarded the contract.

Whilst the contract will allow for up to 20 x Thermal Cameras to be purchased, no guarantee can be given of any minimum number included in the order(s) that will be placed with the successful bidder.

Please note any agreement signed with your Company will be subject to the Standard Home Office Terms and Conditions for Goods contract (attached for reference).