|  |  |  |  |
| --- | --- | --- | --- |
| No. | Description and minimum specification of the Equipment as defined by the Buyer | Description and specification of the Equipment offered by the Seller | Complies YES/NO |
| 1‍ | Spatial resolution: ≥ 512 × 512 px |  |  |
| 2 | Aspect ratio: = 1:1 |  |  |
| 3 | Pixel pitch: ≤ 20 μm |  |  |
| 4 | Spectral bandwidth: ≥ 400 – 900 nm  Continuous spectral interval containing requested bandwidth, where the detection efficiency does not drop below 5 %. |  |  |
| 5 | Fill factor: ≥ 50 %  Relative size of light sensitive area of the pixel with respect to its overall size. It is acceptable to fulfill this requirement using set of microlenses. However, in this case all required parameters must be fulfilled in this configuration. In case of using microlenses array, illumination by collimated light is considered. |  |  |
| 6 | Detection efficiency: ≥ 50 %  Maximal detection efficiency achieved for any range within specified spectral bandwidth. |  |  |
| 7 | Dark pulses: ≤ 30 ⋅ s-1  Required value represents median of all pixels at room temperature. |  |  |
| 8 | Defect pixels: ≤ 2 %  Pixel is considered defected if its dark pulse rate is larger than 1000 pulses ⋅ s-1. |  |  |
| 9 | Readout rate: ≥ 1000 fps  Continuous readout rate at full resolution. |  |  |
| 10 | Minimum exposure time: ≤ 10 ns |  |  |
| 11 | Objective interface: C-mount |  |  |
| 12 | PC interface: USB |  |  |
| 13 | External triggering:   * + interface: BNC   + voltage level: TTL 5V   + input impedance: 50 Ω *OR* > 1 MΩ   + jitter: < 1 ns   Input signal to synchronize exposure window. |  |  |

The subject of the purchase is a SPAD camera with accessories whose basic purpose and mode of operation are described in Section 2.2 of the Invitation to submit bids. It must meet the technical conditions and include components listed in this table.

(Bidders shall fill in the columns “Description and specification of the Equipment offered by the Seller” and “Complies YES / NO”.)