**ELISpot reader Specification**

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| **Item No.** | **Description** | **Unit** | **Q’ty** |
| 1 | ELISpot reader | set | 1 |

**Ⅰ. Purpose**

This equipment is used for the analysis of ELISpot, FluoroSpot, and FociSpot. Additionally, this equipment will primarily be used for handling clinical specimens. Therefore, it must comply with FDA 21 CFR Part 11.

**Ⅱ. Configurations of Goods**

1. ELISpot reader (main instrument)
2. Plate for performance qualification should be provided.
3. Desktop PC (including monitor, keyboard, and mouse)

**Ⅲ. Performance and Specification**

**- Performance**

1. As this equipment will be used for analyzing clinical trial specimens, it must comply with FDA 21 CFR Part 11
2. For ELISpot plates, compatibility is required with Millipore's MSIP and MAIPSWU, and FluoroSpot plates should be compatible with IPFL, while FociSpot plates should be compatible with Corning and Nunc.
3. For FluoroSpot, it should be capable of analyzing a minimum of 4 colors.
4. It should be possible to export data in various formats, including Excel, JPG, and others.
5. It should have the capability to analyze a single ELISpot plate within 2 minutes for optimal performance.
6. It should be able to count spots accurately, recognizing not just a large spot formed by the overlap of several but having the capability to identify multiple individual spots.
7. The analysis should be automated, minimizing the intervention of the analyst, and thereby reducing variability in the data based on the analyst's proficiency.
8. The software should have an intuitive and user-friendly interface for easy and straightforward use.
9. Scanning, counting, and analyzing should be possible through a single software.
10. When dealing with a large number of plates, the system should have the capability to automatically load plates into the equipment for analysis and possess features to easily handle bulk data.

**- Specification**

1. Main instrument dimensions (HxWxD): Within 500x500x500 mm

(It should be possible to place it on the experiment table.)

1. Calibration: Self-calibrating XY-table
2. Camera lens: Telecentric
3. Camera sensor: CMOS sensor with global shutter
4. Plate type: 96-well plate
5. Export formats: .raw, .jpg, .xlsx, .pzfx, .tiff
6. Light source: White LED ring light (ELISpot), LED380, LED490, LED550, LED640 (FluoroSpot)
7. Resolution: 2048x2048 pixels
8. Voltage: 100 to 240 V AC, 50 to 60 Hz
9. PC workstation:
   1. Processor Intel Core i7-12700K
   2. 16GB DDR4 UDIMM non-ECC Memory
   3. 2TB PCle NVM e Class 40 M2 SSD
   4. Nvidia GeForce RTX 3060 Super
   5. Dell Application for Windows 10
   6. Monitor: 27”
   7. MS Office professional version included
10. Plate for performance qualification included

**Ⅳ. Remarks**

1. Two(2) years warranty service will be provided.
2. It should be capable of IQ, OQ, and PQ.
3. The installation and setup should take place at the customer's intended location, with user training provided by certified engineers from the manufacturer.

**Ⅴ. 위 규격서에서 명시한 제품과 동등 이상의 다른 제품 납품이 가능한 업체는 입찰에 참가할 수 있음.**