

DESCRIPTION OF THE SUBJECT OF THE ORDER

Supply of **Specialized Camera for Skin Research and Perfusion Studies.**

In connection with the commencement of scientific research related to the assessment of skin changes and perfusion evaluation, the purchase of specialized laboratory cameras is necessary. These cameras are characterized by high sensitivity, data recording with a resolution greater than 8 bits, and without compression. Based on the conducted analysis of requirements, the following needs for camera have been identified:

1. **UV camera with a range of 200-1100 nm including a matched lens – 1 piece**
2. **Accessories for the cameras**

The set of cameras requires software (library) enabling capturing and image operations in the Python environment and camera support in both Windows and Linux environments.

1. UV camera USB including a matched lens and accessories

Supply includes: 1 piece

1.1 Camera UV USB featuring:

- **Resolution:** min. 2840 × 2840,
- **Frame rate:** min. 50 fps,
- **Shutter type:** Global Shutter
- **Bit depth:** min 12bit
- **Lens mount:** C
- **Spectral range:** at least 200-1100nm
- **Pixel size:** min 2,74 x 2,74 μm,
- **Software compatibility:** Windows / Linux / Python
- **Warranty:** min 3 years
- **Image buffer:** min 256KB
- **Interface:** USB 3.0

1.2 Dedicated Lens

The lens should be matched to the offered camera both in terms of mounting to the camera housing and spectrally to the camera sensor, as well as the sensor resolution.

Requirements include:

- **Resolution:** min. 8 MP, sensor size matched to the camera

- **Pixel size:** min 2,4 x 2,4 μm ,
- **Focal length:** 8mm
- **Aperture (min):** F2.4, manual or automatic
- **Mount:** C
- **Minimum Object Distance (M.O.D.)** - Max: 0.1m – Infinity
- **Distortion:** ($\leq 0.73\%$ in absolute value).
- Lens coating technology should ensure high transmission down to minimum 350nm.

2. Accessories:

- a) Cable for connecting the camera to a computer (at least 2m long), 3 pieces
- b) Tripod adapter, 3 pieces
- c) Software for the camera operating in Windows and Linux environments and libraries for camera support in Python language

The accessories should match the camera from point 1