Filmski studio VIBA FILM LJUBLJANA
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B. TECHNICAL SPECIFICATION

PURCHASE OF PROFESSIONAL SPHERICAL FULL-FRAME LENSES AND ADDITIONAL OPTICAL EQUIPMENT

The objective of this public procurement is to procure a set of high-quality spherical lenses and associated optical accessories for use with large-format digital cinema cameras. The system must ensure exceptional optical performance, professional-grade durability, precise image correction, lens protection, and creative flexibility in image control.

The procurement is divided into two lots:

- Lot I: Professional spherical full-frame lenses
- Lot II: Additional optical equipment

LOT I: Professional Spherical Full-Frame Lenses

The bidder must provide:

- Type and model of the lenses
- Technical specifications for each lens (T-stop, focus range, front element diameter, etc.)

Technical requirements:

- Spherical lens design
- Compatibility with large-format (Full Frame) digital cinema cameras
- Robust build, resistant to dust and temperature fluctuations
- Maximum aperture of T1.8 or wider
- Minimal image distortion and low focus breathing
- All lenses in the set must be color-matched

- LPL mount with electronic interface supporting LDS-2 and Cooke/i metadata protocol or equivalent system
- Support for resolutions of 8K or higher and high dynamic range (HDR)
- Magnetic rear mount for quick optical filter changes
- Uniform outer barrel diameter for compatibility with standard matte box systems
- Clearly marked focus rings with metric scale, readable in the dark (fluorescent or backlit markings)
- Fully mechanical focus and iris control rings with extended rotation range to enable precise manual focusing
- Compatibility with wireless remote control systems for focus and iris
- Full compatibility with the contracting authority's existing camera equipment
- The lens set must include at least seven lenses with the following approximate focal lengths:
    - 21 mm
    - 25 mm
    - 35 mm
    - 47 mm
    - 58 mm
    - 75 mm
    - 125 mm

Included accessories:

- Two protective transport cases with internal foam padding, suitable for transporting and storing four lenses each
- Basic service tools and accessories, if specific to the model

Additional requirements:

- The supplier must ensure the availability of service and calibration within the EU.
- All lenses must be new and unused.
- Technical documentation and user manuals must be provided (in Slovenian or English).

LOT II: Additional Optical Equipment

This lot includes the following interrelated accessories:

1. Matte box system
2. External optical filters
3. Internal creative filter set (bokeh modulation)
4. Diopter set (Close-Up lenses)

The bidder must specify:

- Manufacturer, type, and configuration
- Main technical characteristics

Technical requirements:

1. Matte Box System

- Professional-grade matte box suitable for cinema camera use
- Capacity to hold at least three 4x5.65" filter trays
- Includes adapters for lens and rod support mounting (15 mm rod mount and clamp-on option)
- Adjustable flags (French flags) on the top and optionally on the sides
- A dedicated filter tray designed to hold 138 mm round diopters in a compatible matte box system
- Spare front sunshade for the matte box
- Pair of spare holders for attaching top-mounted French flags to a matte box
- Flexible, lightweight, and adjustable front sunshade
- Includes a transport case for safe handling and storage

2. External Optical Filters

- Each filter type must be available in at least two or three strength levels (e.g., 1/8, 1/4, and 1/2)
- Filter size: 4x5.65” rectangular, with professional-grade optical quality
- The following filter types must be included:
    - Low Contrast (e.g., 1/8, 1/4, and 1/2)
    - Ultra Contrast (e.g., 1/8, 1/4, and 1/2)
    - Soft Glow or functionally equivalent diffusion filter (e.g., 1/8, 1/4, and 1/2)

- Night Fog or functionally equivalent effect (e.g., 1/8, 1/4, and 1/2)
- Black Satin (e.g., 1/4 and 1/2)
- Hollywood Black Magic or functionally equivalent filter (e.g., 1/8, 1/4, and 1/2)
- Rota Pola – rotatable polarizing filter
- Variable ND – variable neutral density filter

3. Internal Creative Filter Set (Bokeh Modulation)

- A set of at least 8 filters designed to be mounted between the lens and sensor
- Alters bokeh character, perceived depth, and image contrast
- Includes both positive and negative diopter-style effects (e.g., comparable to +1/2 and -1/2 diopter)
- Must not introduce color shift or resolution degradation
- Compatible with LPL mount or supplied with an appropriate adapter
- Includes protective housing for safe transport and storage

4. Diopter Set (Close-Up Lenses)

- Includes at least three lenses with diopter values: +1/2, +1, +2
- Large diameter compatible with professional cine lenses (e.g., 114 mm or larger)
- Mountable on matte box or directly on the lens
- High optical quality with no visible aberrations
- Comes with protective packaging

General requirements:

- All equipment must be brand new and unused
- Fully compatible with high-resolution digital cinema cameras (4K, 6K, 8K+)
- Full accompanying documentation must be provided, including user manuals, certificates of conformity, and manufacturer warranties
- Delivery must include protective cases or bags for safe transport and storage