Elio – Halogen Lamp Technical Sheet

Technical Data Sheet

1. Product Overview

Elio is a compact halogen illumination system designed for technical photography and scientific imaging. Thanks to its continuous broadband emission, it is suitable for standard visible photography (VIS), infrared imaging (IR), and infrared reflectography (IRR). The use of standard halogen technology ensures reliability, ease of maintenance, and consistent optical performance.

2. Operating Principle

The lamp is based on a tungsten halogen filament operating in a halogen gas environment. This configuration allows higher filament temperatures compared to conventional incandescent lamps, producing a stable and continuous spectral output across the visible and infrared regions. The emission can be described as continuous VIS–IR emission.

3. Technical Specifications

Lamp Type	Halogen floodlight
Bulb Type	R7S standard halogen bulb
Nominal Bulb Power	150 W
Spectral Emission	Continuous VIS–IR emission
Color Temperature	≈ 2800–3200 K
Power Supply	110–240 V AC, 50/60 Hz
Power Cable Length	5 m
Dimensions	≈ 14 × 13 cm
Weight	≈ 560 g
Mounting	Handheld or photographic tripod adapter

4. Typical Applications

- Standard visible-light documentation (VIS)
- Infrared photography (IR)
- Infrared reflectography (IRR)
- Multispectral and technical imaging workflows
- Cultural heritage and conservation diagnostics

5. Operation and Maintenance

Elio uses widely available R7S halogen bulbs, which are inexpensive and easy to replace. The lamp housing is designed for straightforward operation and safe thermal dissipation. Regular inspection and bulb replacement ensure optimal illumination stability.

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