

Pitty – Polarized Light Photography Kit (72 mm)

Technical Data Sheet

1. Product Overview

Pitty is a complete polarized light photography (PL) kit designed for technical imaging and scientific documentation. The 72 mm version of the kit is optimized for lenses with 72 mm filter threads and enables the reduction of surface reflections through controlled polarization of both illumination and camera optics. It is widely used in cultural heritage, conservation science, and material studies.

2. Polarized Light Principle

Polarized light photography is based on the interaction between polarized illumination and a polarizing filter mounted on the camera lens. By adjusting the relative orientation of the polarizers, reflections from glossy or varnished surfaces can be minimized (cross-polarization) or emphasized, allowing improved visualization of surface textures, pigments, and material features.

3. Kit Configuration (72 mm Version)

Filter Diameter	72 mm
Camera Filter	Linear polarizing filter for camera lens
Light Polarizers	Polarizing sheets for illumination sources
Mounting System	Standard filter thread
Compatibility	Full-spectrum and standard digital cameras
Use Mode	Cross-polarized

4. Typical Applications

- Reduction of specular reflections on varnished or glossy surfaces
- Documentation of paintings, manuscripts, and objects
- Surface texture and pigment visibility enhancement
- Technical photography for conservation and diagnostics
- Comparative before/after reflection analysis

5. Notes on Use

For optimal cross-polarized imaging, the polarizers on the illumination sources must be oriented at 90° relative to the camera polarizing filter. Care should be taken to maintain consistent camera position and lighting geometry during acquisition.

