

Legend for Supplementary Movie:

Supplementary Movie 1. PVA nanoprint destruction under high humidity

Supplementary Movie 2. Nanoprint decryption and destruction due to high humidity

Supplementary Movie 3. Pt-coated PVA metasurface for reversible metaholography and nanoprint encryption

(hologram demonstration)

Supplementary Movie 4. Pt-coated PVA metasurface for reversible metaholography and nanoprint encryption

(nanoprint demonstration)