

# Meta Optical Module Research Report



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Underpinned by meta-optical physics, meta-optical devices have produced potentially disruptive applications in light manipulation and ultra-light optics.



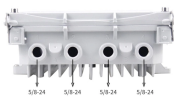
Current research on meta-optical computational imaging is primarily focused on full-color imaging, multimodal imaging (spectral and depth), and optical encoding for computer vision.



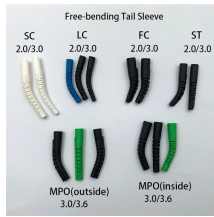
Then, we review published experimental demonstrations of thermal imaging via meta-optics. These meta-optics vary in complexity from simple hyperboloid metalenses to complex ...



This work may promote the miniaturization of multifunctional optical systems, including spectrometers and polarization imagers, and illustrates the potential industrial applications of meta ...



This review provides a comprehensive overview of methods that apply meta-optics to the engineering of optical architectures in NEDs for AR and VR systems. First, we begin by discussing the basic ...



Our results demonstrate that meta-optical miniscopes can expand the miniscope toolbox and facilitate the development of more compact and multifunctional imaging systems.



In this section, among the four different major roles of meta-optics in AR displays, excepting the third one (meta-holograms), three roles will be introduced with major research results reported recently, ...



This review systematically examines the recent progress in this burgeoning field, primarily focusing on the development of high-performance optical systems for imaging, display, sensing, and ...



Subwavelength diffractive optics known as meta-optics have demonstrated the potential to significantly miniaturize imaging systems. However, despite impressive demonstrations, most...



Figure 2: Phase profiles and point spread function (PSF) of the meta-optics. (a) The wrapped phase profiles of the central regions of the hyperbolic, square, EDOF, and DH



With emerging interest in nanophotonic approaches to all- optical information processing, these approaches to enhancing images and performing phase visualization are attracting significant...

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