

**SLOVENSKI STANDARD**  
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**Optika in fotonska tehnologija - Vrste mikroleč - 1. del: Slovar (ISO/DIS 14880-1:2026)**

Optics and photonics - Microlens arrays - Part 1: Vocabulary (ISO/DIS 14880-1:2026)

Optik und Photonik - Mikrolinsenarrays - Teil 1: Begriffe (ISO/DIS 14880-1:2026)

Optique et photonique - Réseaux de microlentilles - Partie 1: Vocabulaire (ISO/DIS 14880-1:2026)

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31.260	Optoelektronika, laserska oprema	Optoelectronics. Laser equipment

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**en,fr,de**

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# DRAFT International Standard

## ISO/DIS 14880-1

### Optics and photonics — Microlens arrays —

#### Part 1: Vocabulary

*Optique et photonique — Réseaux de microlentilles —  
Partie 1: Vocabulaire*

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## ISO/DIS 14880-1:2026(en)

### Foreword

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This document was prepared by Technical Committee ISO/TC 172, *Optics and Photonics*, Subcommittee SC 9, *Laser and electro-optical systems*.

This fourth edition cancels and replaces the third edition (ISO 14880-1:2019), which has been technically revised.

The main changes are as follows:

- [Table 1](#) modified
- [Figures 1](#) and [3](#) modified
- Labelling and symbols clarified
- Notes to some entries modified

A list of all parts in the ISO 14880 series can be found on the ISO website.

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## ISO/DIS 14880-1:2026(en)

### Introduction

The expanded market in microlens arrays has generated a need to agree on basic terms and definitions for microlens arrays and systems and this document aims to satisfy that need.

This document aims to improve the compatibility and interchangeability of lens arrays from different suppliers and to enhance the development of technology using microlens arrays.

Microoptics and microlens arrays are found in many optical devices.<sup>[1]</sup> They are used as coupling optics for detector arrays, the digital camera being an example of a mass market application. They are used to enhance the optical performance of liquid crystal displays, to couple arrays of light sources and to direct illumination for example in 2D and 3D television, mobile phone and portable computer displays. Microlens arrays are used in wavefront sensors for optical metrology, for example in ophthalmic and industrial applications, and astronomy. They are used in light-field sensors for three-dimensional photography and microscopy and in optical parallel processor elements.

Microlenses and microlens arrays are used in laser-diode beam correcting and/or beam shaping applications, often using aspherical or anamorphic optical components. Multiple arrays of microlenses can be assembled to form optical systems such as optical condensers, controlled diffusers, beam homogenisers and superlenses.<sup>[2][3]</sup> Furthermore, arrays of microoptical elements such as micro-prisms and micro-mirrors are used.<sup>[4][5]</sup> Examples of some of these applications are described in [Annexes A to E](#).

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