# BUREAU OF INDIAN STANDARDS DRAFT FOR COMMENTS ONLY

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Doc No.: PGD 39 (23505) IS 5920 (Part 5) : 2023 ISO 10110-8 : 2019 November 2023

## भारतीय मानक मसौदा

प्रकाशिकी और फोटोनिक्स - प्रकाशीय तत्वों और प्रणालियों के लिए आरेखण तैयार करना -

### भाग 5 सतह की बनावट

Draft Indian Standard

Optics and Photonics — Preparation of Drawings for Optical Elements and Systems — Part 5 Surface Texture

ICS 01.100.20; 37.020

### **Optics and Photonics, PGD 39**

### NATIONAL FOREWORD

This draft Indian Standard (Part 5) which is identical with ISO 10110-8 : 2017 'Optics and photonics — Preparation of drawings for optical elements and systems — Part 8: Surface texture' issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Optics and Photonics Sectional Committee and approval of the Production and General Engineering Division Council.

This standard specifies rules for the indication of the surface texture of optical elements, in the ISO 10110 series, which standardizes drawing indications for optical elements and systems. This document also specifies method for characterizing the residual surface that is left after detrending by subtracting the surface form.

This standard has been published in thirteen parts. Part 1 of this series supersedes the originally published Indian Standard IS 5920 : 1970 'Recommendation for the preparation of drawing for optical elements and system'. Other parts in this series are:

Part 1 General Part 2 Surface form tolerances Part 3 Centering tolerances Part 4 Surface imperfections Surface treatment and coating Part 6 Part 7 Non-tolerance data Part 8 Aspheric surfaces Part 9 Wave front deformation tolerance

- Part 10 Diffractive surfaces
- Part 11 Laser irradiation damage threshold
- Part 12 Stress birefringence, bubbles and inclusions, homogeneity, and striae
- Part 13 General description of surfaces and components

The text of ISO standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current-practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated

International Standard	Corresponding Indian Standard	Degree of Equivalence
Specifications (GPS) — Indication of surface texture in	IS 10719 : 2015/ ISO 1302 : 2002 Geometrical product specifications (GPS) - Indication of surface texture	Identical
technical product documentation	in technical product documentation (First Revision)	
Surface texture: Profile method — Terms, definitions and	Geometrical product specifications (GPS) - surface texture : profile method - Terms, definitions and	Identical
surface texture parametersISO 10110-1- Optics and photonics— Preparation of drawings for optical elements and systems— Part1: GeneralISO 10110-1- Optics and photonics— Preparation of drawings for optical elements and systems— Part1: General		Identical

**NOTE**: The technical content of draft standard is not available on website. For details, please refer to ISO 10110-8 : 2023 or contact:

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