
**Optics and photonics —
Environmental requirements — Test
requirements for telescopic systems**

*Optique et photonique — Prescriptions d'environnement —
Prescriptions d'essai pour les systèmes télescopiques*

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 4, *Telescopic systems*.

This first edition of ISO 20711 cancels and replaces ISO 10109-4:2001, which has been technically revised.

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Introduction

Optical and photonic instruments including additional assemblies from other fields (e.g. mechanical, chemical and electronic devices) are affected during their use by a number of different environmental and handling parameters which they are required to resist without significant reduction in performance and to remain within defined specifications. This is what the manufacturer attempts to ensure and the user expects to receive.

This expectation can be assessed by exposure of the instrument to a range of simulated environmental parameters under controlled laboratory conditions. The cumulative combination, degree of severity and sequence of these conditions can be selected to obtain meaningful results in a relatively short period of time.

Technical requirements as given in the tables of this document are abbreviated and the reader has to consult the referenced standards (i.e. the relevant parts of ISO 9022) for the full specification of the technical requirement.

For the purposes of this document, nominal values for properties or performance characteristics are understood to be the manufacturer's internal technical data and do not directly reflect the manufacturer's product specifications.

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