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# Health informatics — Ophthalmic examination device data —

## Part 1: General examination devices

*Informatique de santé — Données relatives aux dispositifs d'examen  
ophtalmique —*

*Partie 1: Dispositifs pour les examens généraux*



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## Foreword

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A list of all parts in the ISO 22218 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

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## Introduction

Ophthalmic devices are used in hospitals and clinics to conduct examinations for patients. The primary devices used in these ophthalmic examinations provide measurement of refraction, corneal curvature, intraocular pressure, lens power and visual acuity. Almost all patients who consult for a diagnosis in ophthalmology undergo these examinations. Most ophthalmic hospitals and clinics use devices in these examinations to provide the needed measurements. Since many different vendors supply the devices to perform these measurements, the interoperability of examination results is important. In addition, standard procedures for mutually communicating these measurements are required between the ophthalmic examination devices and the Ophthalmic Information System (OIS).

These examinations are indispensable not only for ophthalmic medical care but also for prescriptions for spectacles and contact lenses. Additionally, intraocular pressure measurement is important for other ophthalmic procedures such as glaucoma assessment.

However, due to the differing data formats provided by these ophthalmic examination devices and the lack of interoperability, integration of this information is difficult and potentially error prone. Integration of each device's information into an OIS or hospital information system (HIS) therefore requires significant individual effort for each manufacturer's device.

This document specifies the content and format for ophthalmic examination device measurements, identifying that information that may be included in examination reports, as well as how it should be formatted when communicated to an OIS, HIS or other similar system.