

Recommendations for

Specifying the optical performance of lenses for television cameras

Confirmed
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Co-operating organizations

The Instrument Industry Standards Committee, under whose supervision these recommendations were prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

British Calibration Service	Gauge and Tool Makers' Association
British Electrical and Allied Manufacturers' Association	HEVAC Association
British Industrial Measuring and Control Apparatus Manufacturers' Association	Institute of Measurement and Control*
British Mechanical Engineering Confederation	Institution of Chemical Engineers
British Nautical Instrument Trade Association	Institution of Electrical Engineers
British Railways Board	Institution of Heating and Ventilating Engineers
British Steel Industry	Institution of Mechanical Engineers
Council of British Manufacturers of Petroleum Equipment	Institution of Production Engineers
Department of the Environment	Meteorological Office
Electrical Research Association	Ministry of Defence, Air Force Department
Electricity Council, The Central Electricity Generating Board and the Area Boards in England and Wales	Ministry of Defence, Army Department*
Electronic Engineering Association	Ministry of Defence, Navy Department*
Engineering Equipment Users' Association*	National Coal Board
	National Physical Laboratory (Department of Trade and Industry)*
	Oil Companies Materials Association*
	Scientific Instrument Manufacturers' Association*
	Sira Institute*

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following were directly represented on the committee entrusted with the preparation of these recommendations:

British Photographic Manufacturers' Association Ltd	Institute of Physics and the Physical Society
Department of Trade and Industry	Ministry of Defence, Inspectorate of Armaments
Federation of Manufacturing Opticians	Royal Microscopical Society
Flat Glass Manufacturers' Association	Individual experts
Illuminating Engineering Society	

These recommendations, having been approved by the Instrument Industry Standards Committee, were published under the authority of the Executive Board on 24 May 1972

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The following BSI references relate to the work on these recommendations:
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Foreword

These recommendations make reference to the following British Standards:

BS 4779, *Recommendations for measurement of the optical transfer function of optical devices*.

BS , *Recommendations for veiling glare measurements*.

These recommendations have been prepared under the authority of the Instrument Industry Standards Committee.

Their principal aim is to recommend objective procedures for use when specifying the performance of television lenses. One of the measures of performance adopted in these recommendations is the optical transfer function (OTF). Techniques for the accurate measurement of this function have been established in recent years, and these not only form the basis of a reliable test method but also serve as a means of expressing performance in design specifications.

In addition to OTF, the complete assessment of television lenses demands the measurement of other parameters such as vignetting, veiling glare, distortion, etc.

It is envisaged that at some future date a generic standard for each given category of lens or optical instrument will be published, giving all those characteristics that are considered to be mandatory together with a preferred format for their presentation. The present document is to be considered as one for interim use, and its material will be incorporated in the full scheme as this develops.

No previous national or international recommendations exist that use OTF in connection with the performance of lenses for television.

Other standards in this series dealing with environmental, mechanical and test requirements are being prepared.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.