EDCF
European Digital Cinema Forum

A Best Practices Guide

▶ Foreword

The notion of best practice exists in all industries, providing a benchmark for people and companies to aspire to if not attain. The quality of Image and Sound in the auditorium must rank as the most important topic within our industry as they are what defines much of the audience's experience.

However, it is not always known or easy to find what these levels of performance and expectation are, and this is what motivates this guide about Best Practice in Image and Sound for Cinema. The range of topics is broad, and we have tried to cover all the issues that might have some bearing on the quality of image and sound within the auditorium.

The working group undertaking this Guide is drawn from a wide range of industry professionals and experts in their field, mostly members of the EDCF, and we are very grateful to all of them for their time and energy in contributing. Some of the contributors are also members of the UNIC Technology Group and we thank them too.

—David Hancock, EDCF President

▶ Orientation

A Best Practice Guide is a series of modules brought to you by a working group of industry professionals that covers a very broad spectrum of disciplines surrounding the motion-picture and cinema industry. Reviewed by, and with contributions from the wider working group, each module is written by a core team of principal authors, selected as subject experts, and edited to follow a common theme and communication style that aims to offer easy access to information pertinent to senior executive, managers, and contractors.

The guide aims to help post-production facility managers and cinema operators to navigate existing industry standards, recommended practices, and other industry de facto norms so that efficient decisions can be made when setting up outstanding content creation and exhibition environments that form the international supply chain that enables powerful cinematic experiences to be perfected by directors and enjoyed by cinemagoers.

Each module is presented in PDF form for easy reading online or for two-sided printing. Many of the PDFs, including this, include hyperlinks to other modules or to additional references and resources. Modules will be added to this guide and updated as necessary and volunteers are always welcome to join the working group to help in this mammoth task.

—Julian Pinn, Editor and Project Lead

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▶ The chapters and their modules

▶ Accessibility

▶ Architecture

Projection	published September 2019
Foreword	The aim of this module is to give architects, cinema owners/managers and other people who are involved in the process of planning and designing cinemas some help in the design process oriented around projection. Very special thanks are owed to Rolv Gjestland who has kindly donated much of his text to this guide from his book, How to design a Cinema auditorium, for which we are eternally grateful.
Editor and project lead	Julian Pinn.
Principal author	Rolv Gjestland.
Thanks to	Film and Kino, Julian Pinn Ltd, and the Technology Committee of the International Union of Cinemas (UNIC).

Screen	coming soon

Seating	published September 2019
Foreword	The aim of this module is to give architects, cinema owners/managers and other people who are involved in the process of planning and designing cinemas some help in the design process oriented around seating. Very special thanks are owed to Rolv Gjestland who has kindly donated much of his text to this guide from his book, How to design a Cinema auditorium, for which we are eternally grateful.
Editor and project lead	Julian Pinn.
Principal author	Rolv Gjestland.
Thanks to	Film and Kino, Julian Pinn Ltd, and the Technology Committee of the International Union of Cinemas (UNIC).

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Viewing Conditions	published September 2019
Foreword	The aim of this module is to give architects, cinema owners/managers and other people who are involved in the process of planning and designing cinemas some help in the design process oriented around viewing conditions. Very special thanks are owed to Rolv Gjestland who has kindly donated much of his text to this guide from his book, How to design a Cinema auditorium, for which we are eternally grateful.
Editor and project lead	Julian Pinn.
Principal author	Rolv Gjestland.
Thanks to	Film and Kino, Julian Pinn Ltd, and the Technology Committee of the International Union of Cinemas (UNIC).

▶ Image

Projector Light Sources	coming soon

Lens Selection	coming soon
Foreword	The aim of this module is to help the reader gain a practical understanding of the range of projector lenses available and how to calculate and make the right selection towards a particular cinema, preview theatre, colour-grading suite, or sound re-recording theatre application.
Editor and project lead	Julian Pinn.
Principal authors	Tom Bert, Chris Mullins, Mark Clowes, and Julian Pinn.
Thanks to	Barco, Sony, Julian Pinn Ltd, and the Technology Committee of the International Union of Cinemas (UNIC).

Light Output Calculation	coming soon

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Foreword	The aim of this module is to help the reader gain a practical understanding of the range of projection screens available, how best to install them, and how to evaluate their suitability towards a particular cinema, preview theatre, colour-grading suite, or sound re-recording theatre application.
Editor and project lead	Julian Pinn.
Principal authors	Rolv Gjestland, Matt Jahans, Charles "CJ" Flynn, and Julian Pinn.
Additional contributors	Jan Petersen, Angelo D'Alessio, Mark Clowes, Alexey Vinokurov, and Reiner Chemnitius.
Thanks to	Barco, Christie, NEC, Sony, Harkness Screens, Film and Kino, Julian Pinn Ltd, Nordisk Film, CinemaNext, Real D, and the Technology Committee of the International Union of Cinemas (UNIC).

Projector Alignment	coming soon

Foreword	The aim of this module is to help the reader gain a practical understanding of projector alignment in a cinema, preview theatre, colour-grading suite, or sound re-recording theatre application.
Editor and project lead	Julian Pinn.
Principal authors	Emmanuel Fink.
Additional contributors	Tom Bert and Reiner Chemnitius.
Thanks to	CinemaNext, Barco, Julian Pinn Ltd, and the Technology Committee of the International Union of Cinemas (UNIC).

▶ **Sound**

Loudspeaker Placement

Power Handling

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Audio Interconnection

Electro-acoustic Targets

Alignment and Tuning

▶ **Special Presentations**

Special Picture Formats

Event Cinema

Off-screen Subtitles

▶ **References**

Standards   coming soon

Recommended Practices   coming soon

Engineering Guidelines   coming soon

Technical Documents   coming soon

Papers   coming soon

▶ **Feedback**

This guide is for the industry, from the industry, and we kindly urge you to let us know of any errors, omissions, or any other suggestions as soon as possible.

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▶ **Your notes**