

Specifying and Assessing Projected Image Quality

A Best Practice White Paper - June 2005

Also available: View a streamed 30 minute OnDemand presentation, *Specifying the Projected Image*. Greg Jeffreys discusses the practical issues in specifying and evaluating front- and rear-projection image quality with respect to the proposed application and location.

To view the OnDemand presentation, go to the [InfoComm Store](#); select a currency from the drop-down menu; select "OnDemand" (2nd item in the left column); go to page 2 of the Product Search Results; select *Specifying the Projected Image*. The cost of viewing the OnDemand presentation is \$25 for members (payable in EduBucks) or \$40 for non-members.

Files to Download:

[Specifying and Assessing Project Image Quality](#) (PDF)
[Front Projection Contrast Calculator](#) (spreadsheet)
[Front vs. Rear Projection Contrast Calculator](#) (spreadsheet)
[InfoComm 2005 Screen Measurements](#) (spreadsheet)
[ISC 2005 Screen Measurements](#) (spreadsheet)

Dear Colleague

In the PDF referenced above, you will find the first version of our best practice paper. This comes from a larger project to create a full quality standard, a committee for which was founded at the beginning of 2004. The founding committee members, present at the inaugural meeting at dnp's factory in Karlslunde, Denmark were:

Jason Brameld, Mark Johnson Consultants; UK Jacob Christensen, dnp denmark A/S, Denmark; John Eden-Green, Arup Communications, UK; Terry Friesenborg, CTS, InfoComm International, USA; Greg Jeffreys, Paradigm Audio Visual Ltd, UK; Søren Weis Lindegaard, dnp denmark A/S, Denmark; Marcus Schoenrich, Mediascreen, Germany; Hans Struwe, STRUWE, Denmark.

The inaugural meeting took place over two days in January 2004, where we had detailed discussions, took detailed measurements, and generally exploited the opportunity to try as many ideas and configurations as we could using the superb facilities and instruments available at dnp. This meeting was very successful and our project was truly underway.

At a review meeting at InfoComm 2004 in Atlanta, we had to recognize that acceptance and publication of a quality standard can take years - but the need for the project was immediate. Therefore we agreed the next step would be to produce some kind of "white paper," which is what you see here. Having agreed to write this for the committee, when I sat down to start I realized the project was more extensive than first foreseen. We had indeed achieved a high level of unanimity and agreement in our committee work. But if this draft did not provide sufficient background and workings, it could prove insufficiently convincing for the professional specifier.

The balance between scientific rigour and day-to-practicality is a tough call. But this has been our guiding principle here. A full reading of the text should provide a reasonable explanation for the decisions taken.

Now this lengthy version is in the public domain - waiting for comments and suggestions from you fellow professionals - the next step will be to produce a concise version, omitting so much supporting detail and relying more on the spreadsheets. The spreadsheets, being concurrently released with this document, also need peer review.

To paraphrase the Irish writer George Bernard Shaw: the English and Americans are divided by a common language. The world is hopefully small enough now to cope with colour/color etc, but we do tend to use different units of measurement from one side of the world to another (specifically foot-candles/lumens and foot-Lamberts/nit [cd/m²]).

This element of housekeeping has only been partially addressed so far and we're in the process of tidying that one as quickly as possible.

But finally I would like to thank my colleagues. Apart from the work of the committee - some members travelling across oceans to take part - I have to declare some specific debts. To my colleagues Søren Weis Lindegaard and Jacob Christensen of dnp, whose patient professionalism and scientific rigour have provided a backbone for our enterprise: thank you very much.

To Professor Geoff Levermore of UMIST, who invited me to contribute to UMIST's Sustainable Electrical Building Services Engineering MSc, special thanks are due. His wry and strategic questioning of me was arguably the true progenitor of this work!

But the real engine for getting this actually finished and into circulation is the International Communications Industries Association. In recent years we Europeans have really begun to understand the 'International' part of the title. Terry Friesenborg has not only been an active committee member, but has provided continuous and invaluable support from the first day. Scott Wills has provided great support too (and he also gets my Oscar nomination for his conduit-breaking scene in his streamed video training course!). And finally, Melissa Taggart, who will be coordinating its integration into future materials. My sincere thanks to you all.

So, eventually this little boat gets launched! We hope you find this paper of interest and benefit. However, what we're really hoping for is feedback. In the first instance please direct this to me via greg@rearpro.com.

Greg Jeffreys
Bromham, 13th September 2005

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