



BSI Standards Publication

## Information technology — MPEG video technologies

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Part 8: Working practices using objective metrics for evaluation of video coding efficiency experiments

## National foreword

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A list of organizations represented on this committee can be obtained on request to its committee manager.

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**Part 8:  
Working practices using objective  
metrics for evaluation of video coding  
efficiency experiments**

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## Foreword

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# Information technology — MPEG video technologies —

## Part 8:

# Working practices using objective metrics for evaluation of video coding efficiency experiments

## 1 Scope

This document provides general information about coding efficiency measurement practices for video coding. This document does not provide recommendations for evaluating video quality; it describes the practices that have recently been followed for coding efficiency experiments conducted during work to develop video coding standards.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

For the purposes of this document, the following terms and definition apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

### 3.1

#### **Bjontegaard delta bit rate BD-rate**

average percentage bit rate difference at equal measured distortion, integrated across a range of bit rates in the log domain

Note 1 to entry: The Bjontegaard delta bit rate measurement method was originally specified in VCEG-M33<sup>[1]</sup>.

## 4 Abbreviated terms

AVC	advanced video coding (Rec. ITU-T H.264   ISO/IEC 14496-10)
BD-rate	Bjontegaard delta bit rate
HDR	high dynamic range
HEVC	high efficiency video coding (Rec. ITU-T H.265   ISO/IEC 23008-2)
HLG	hybrid log gamma
JCT-VC	joint collaborative team on video coding (for development of HEVC)
JVET	joint video experts team (for development of VVC)