
**Information technologies — JPEG
systems —**

**Part 6:
JPEG 360**

Technologies de l'information — Systèmes JPEG JPEG 360 —

Partie 6: JPEG 360

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Foreword

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A list of all parts in the ISO/IEC 19566 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.

Introduction

The ISO/IEC 19566 series is designed primarily for format and metadata storage and protection method of compressed continuous-tone photographic content.

There is increasing use of multi-sensor images from multiple image sensor devices, such as 360 degree capturing cameras or dual-camera smartphones available to consumers. Images from these cameras are shown on computers, smartphones, and head-mounted displays (HMD).

Because existing JPEG standards do not fully cover these new uses, incompatibilities have reduced the interoperability of these images, and thus reducing the widespread ubiquity which consumers have come to expect when using JPEG-based images.

Additionally, new modalities for interacting with images, such as computer-based augmentation, face-tagging, and object classification require support for metadata that was not part of the original JPEG scope.

This document defines “JPEG 360”, building upon the features of JPEG Universal Metadata Box Format (JUMBF) (see ISO/IEC 19566-5) which itself builds upon ISO/IEC 18477-3 (Box file format) which provides compatibility with ISO/IEC 10918-5 (JPEG File Interchange Format (JFIF)).

This document defines the use of the JPEG 360 Content Type JUMBF superbox with respect to the sub-box components which include the definition of an XML box, the use of other boxes such as unstitched image elements for omnidirectional captures together with the main image and descriptive metadata, and encrypted parts of the image.

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