

ISO/IEC 21794-6:2025-07 (E)

Information technology - Plenoptic image coding system (JPEG Pleno) - Part 6: Learning-based point cloud coding

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols and abbreviated terms	4
4.1	Symbols	4
4.2	Abbreviated terms	7
5	Conventions	7
5.1	Naming conventions for numerical values	7
5.2	Operators	8
5.2.1	Arithmetic operators	8
5.2.2	Logical operators	8
5.2.3	Relational operators	8
5.2.4	Set operators	9
5.2.5	Precedence order of operators	9
5.2.6	Mathematical functions	9
6	General	10
6.1	Point cloud geometry representations	10
6.2	Multiple learnable neural network models	10
6.3	Functional description of the encoding process	10
6.4	Functional description of the decoding process	11
6.5	Encoder requirements	12
6.6	Decoder requirements	12
6.7	Trained models and parameters	12
7	Organization of the document	13
Annex A (normative)	File format	14
Annex B (normative)	Geometry codestream syntax	20
Annex C (normative)	Deep learning-based decoding	27
Annex D (normative)	Colour decoding	30
Annex E (normative)	Synthesis transform	33
Annex F (normative)	Hyper decoders	38
Annex G (normative)	Entropy decoding	42
Annex H (normative)	Binarization	45

Annex I (normative) Block merging	47
Annex J (normative) Up-sampling	49
Annex K (normative) Deep learning-based super-resolution	50
Bibliography	54