

# ISO/IEC 23090-15:2024-07 (E)

## Information technology - Coded representation of immersive media - Part 15: Conformance testing for versatile video coding

<b>Contents</b>	<b>Page</b>
Foreword.....	v
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Abbreviated terms</b> .....	<b>2</b>
<b>5 Conventions</b> .....	<b>4</b>
<b>6 Conformance testing for ITU-T H.266   ISO/IEC 23090-3</b> .....	<b>4</b>
6.1 General.....	4
6.2 Bitstream conformance.....	4
6.3 Decoder conformance.....	4
6.4 Procedure to test bitstreams.....	4
6.5 Procedure to test decoder conformance.....	5
6.5.1 Conformance bitstreams.....	5
6.5.2 Contents of the bitstream file.....	5
6.5.3 Requirements on output of the decoding process and timing.....	5
6.5.4 Static tests for output order conformance.....	6
6.5.5 Dynamic tests for output timing conformance.....	6
6.5.6 Decoder conformance test for a particular profile, tier, and level.....	7
6.6 Specification of the test bitstreams.....	7
6.6.1 General.....	7
6.6.2 Test bitstreams – Coding tools for Main 10 profile with 4:2:0 chroma format and 10 bit depth.....	7
6.6.3 Test bitstreams – High-level syntax features for Main 10 profile with 4:2:0 chroma format and 10 bit depth.....	37
6.6.4 Test bitstreams – Additional chroma formats and bit depths for Main 10 profile.....	50
6.6.5 Test bitstreams – Coding tools for Main 10 4:4:4 profile for 4:4:4 chroma format and 10 bit depth.....	51
6.6.6 Test bitstreams – Additional chroma formats and bit depths for Main 10 4:4:4 profile.....	55
6.6.7 Test bitstreams – Multilayer Main 10 profile.....	59
6.6.8 Test bitstreams – Multilayer Main 10 4:4:4 profile.....	60
6.6.9 Test bitstreams – Main 10 Still Picture profile.....	61
6.6.10 Test bitstreams – Main 10 4:4:4 Still Picture profile.....	61
6.6.11 Test bitstreams – Main 12 profile.....	61
6.6.12 Test bitstreams – Main 12 Intra profile.....	62
6.6.13 Test bitstreams – Main 12 Still Picture profile.....	62
6.6.14 Test bitstreams – Main 12 4:4:4 profile.....	62
6.6.15 Test bitstreams – Main 12 4:4:4 Intra profile.....	67
6.6.16 Test bitstreams – Main 12 4:4:4 Still Picture profile.....	69
6.6.17 Test bitstreams – Main 16 4:4:4 profile.....	71
6.6.18 Test bitstreams – Main 16 4:4:4 Intra profile.....	78
6.6.19 Test bitstreams – Main 16 4:4:4 Still Picture profile.....	80
6.7 Conformance test suites for Rec. ITU-T H.266   ISO/IEC 23090-3.....	82
6.7.1 Bitstreams for Main 10 profile.....	82
6.7.2 Bitstreams for Main 10 4:4:4 profile.....	87
6.7.3 Bitstreams for Multilayer Main 10 profile.....	87
6.7.4 Bitstreams for Multilayer Main 10 4:4:4 profile.....	87
6.7.5 Bitstreams for Main 10 Still Picture profile.....	87

6.7.6	Bitstreams for Main 10 4:4:4 Still Picture profile.....	88
6.7.7	Bitstreams for Main 12 profile .....	88
6.7.8	Bitstreams for Main 12 Intra profile .....	88
6.7.9	Bitstreams for Main 12 Still Picture profile.....	88
6.7.10	Bitstreams for Main 12 4:4:4 profile .....	88
6.7.11	Bitstreams for Main 12 4:4:4 Intra profile .....	89
6.7.12	Bitstreams for Main 12 4:4:4 Still Picture profile .....	89
6.7.13	Bitstreams for Main 16 4:4:4 profile .....	89
6.7.14	Bitstreams for Main 16 4:4:4 Intra profile .....	90
6.7.15	Bitstreams for Main 16 4:4:4 Still Picture profile.....	90