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Virtual reality equipment and systems – Market, technology and standards requirements

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CONTENTS

FOREWORD 3
INTRODUCTION 5
1 Scope 6
2 Normative references 6
3 Terms and definitions 6
4 Markets for VR equipment and systems 6
4.1 Overview of VR markets 6
4.2 Customer requirements 7
4.3 Typical VR ecosystem 7
5 Typical use cases of VR 8
6 Technologies of VR 9
6.1 Technical domains of VR equipment and systems 9
6.2 Factors for display quality of VR equipment and systems 10
6.3 Visual comfort considerations of VR equipment and systems 11
6.3.1 General 11
6.3.2 Binocular disparity 11
6.3.3 Screen door effect 11
6.3.4 Motion-to-photon latency 12
6.3.5 Blue light 12
7 Related work of other SDOs 12
7.1 IEC TC 110 12
7.2 ISO/IEC JTC 1 13
7.2.1 JTC1 13
7.2.2 ISO/IEC JTC 1/SC 24 13
7.2.3 ISO/IEC JTC 1/SC 29 14
7.2.4 ISO/IEC JTC 1/SC 36 15
7.3 ITU 16
8 Potential standardization items in TC 100 16
8.1 Expected standard framework for VR systems 16
8.2 Possible new work items 17
Bibliography 19

Figure 1 – VR ecosystem 7
Figure 2 – VR technical domains 10
Figure 3 – VR standard framework 17

Table 1 – Typical use cases of VR 8
Table 2 – Existing and future standards of TC 110 13
Table 3 – Existing standards of ISO/IEC JTC 1/SC 24 14
Table 4 – Existing and future standards of ISO/IEC JTC 1/SC 29 15
Table 5 – Existing standards of ISO/IEC JTC 1/SC 36 16

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VIRTUAL REALITY EQUIPMENT AND SYSTEMS – MARKET, TECHNOLOGY AND STANDARDS REQUIREMENTS

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Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Technical Report is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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INTRODUCTION

Virtual reality (VR) is an interactive computer-generated experience, which allows the user to feel he is in a virtual world where he can interact in and control a virtual environment. The interaction between the user and the virtual world is mainly through auditory and visual stimuli, but it can also include other types of sensory feedback, such as haptic technology.

This Technical Report focuses on VR equipment and systems that are within the scope of TC 100. Firstly, the ecosystem of VR is described, based on a brief view of market trends and analysis of some typical use cases of VR equipment and systems. Then technologies used in VR equipment and systems are listed, in order to introduce a C-P-N-D (Content, Product, Network and Device) based VR system model. Finally, after studying the standardization activities of related standards developing organizations (SDOs), some suggestions are given, including potential standardization topics within the scope of TC 100.

VIRTUAL REALITY EQUIPMENT AND SYSTEMS – MARKET, TECHNOLOGY AND STANDARDS REQUIREMENTS

1 Scope

This document discusses the market of virtual reality (VR) and the technical domains pertaining to a VR system. This document provides clarity on how existing standards can be used and highlights further requirements for standards within the scope of TC 100.

2 Normative references

There are no normative references in this document.