IEC 62889

Edition 1.0 2015-04

INTERNATIONAL STANDARD

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Digital video interface – Gigabit video interface for multimedia systems

IEC 62889:2015-04(en)

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 33.160.40; 33.160.60; 35.200

ISBN 978-2-8322-2543-1

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DIGITAL VIDEO INTERFACE – GIGABIT VIDEO INTERFACE FOR MULTIMEDIA SYSTEMS

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The text of this standard is based on the following documents:

CDV	Report on voting
100/2193/CDV	100/2298/RVC

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

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INTRODUCTION

This International Standard is based on a standard JEITA CP-6101: Digital monitor interface GVIF that was originally specified by the Japan Electronics and Information Technology Industries Association (JEITA).

The gigabit video interface (GVIF) is a serial point to point interface supporting uncompressed digital video links that was designed to address the needs of automotive navigation and entertainment systems, etc., to transport base band digital video information. The GVIF applies low voltage differential signaling (LVDS) technology and makes use of a thin cable consisting of a single shielded twisted pair of conductors that exhibits high noise immunity and low EMI, and is optimized for small size and low weight. The GVIF supports display resolutions ranging from WQVGA through WUXGA with maximum 24 bit per pixel colour video data, and can transmit base band video signal over cable lengths over 10 m. When paired with high bandwidth data content protection (HDCP), the GVIF's standard functions and features address all of the requirements for delivering content protected video from a source to a video display monitor. Optionally, the GVIF supports audio data transmission and user data transmission.

The Association of Radio Industry Business (ARIB) refers the GVIF in its standard ARIB STD-B21 as one of authorized digital video output interfaces.

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