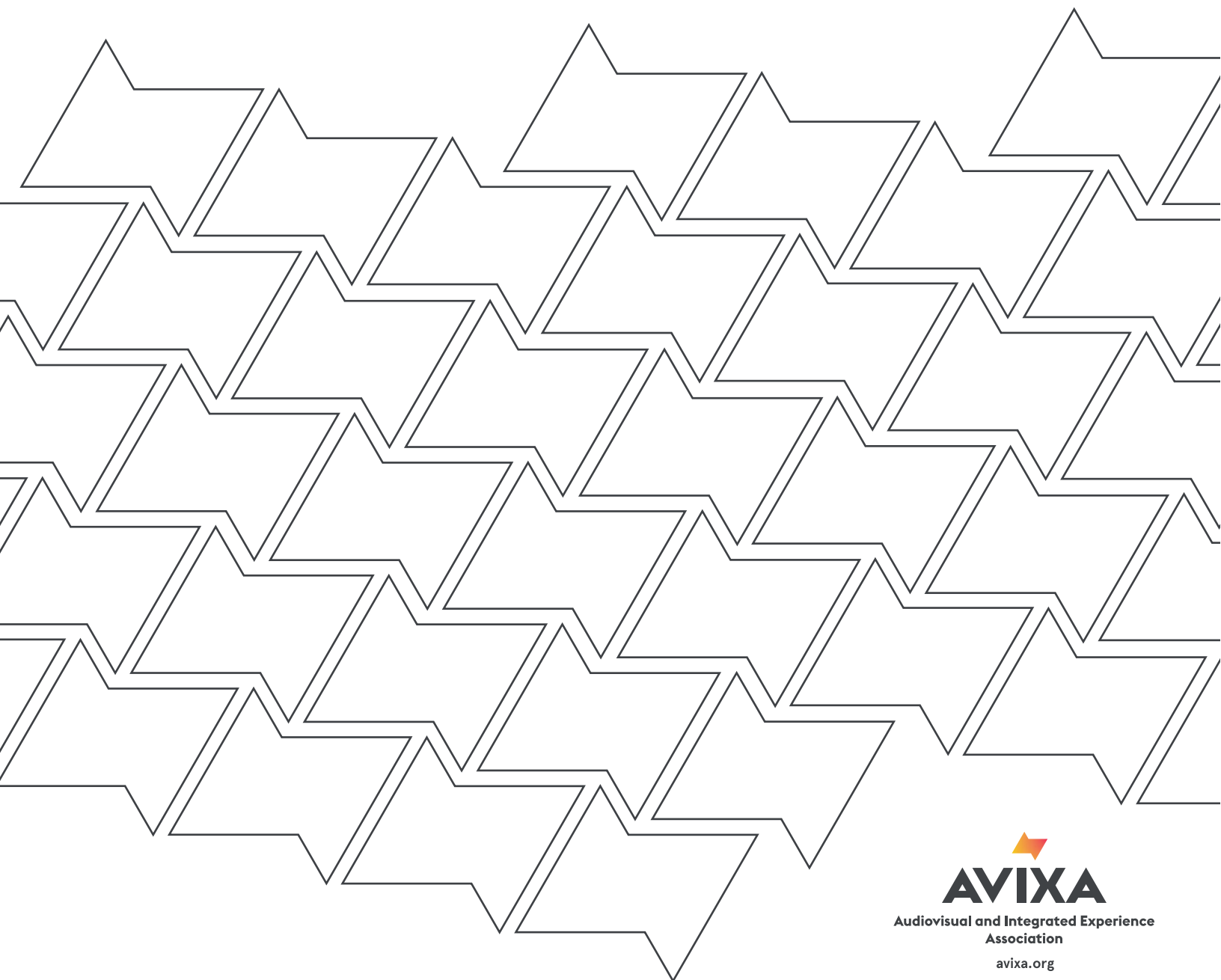


ANSI/INFOCOMM 10:2013

Audiovisual Systems Performance Verification



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Audiovisual Systems Performance Verification

InfoComm International Standard

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Abstract

This Standard provides a framework and supporting processes for determining elements of an audiovisual system that need to be verified; the timing of that verification within the project delivery cycle; a process for determining verification metrics, and reporting procedures. Consultants, integrators, manufacturers, technology support staff, owners, third-party commissioning agents, and architects who have verification processes in place can integrate those existing processes into the framework this Standard provides, adding customized items to those already defined in the Standard.

Keywords

audio, audio performance, audio system, audio/video performance, audiovisual integration, audiovisual system, AV operations, AV system installation, AV system serviceability, cable labeling, cable management, cable termination, contrast ratio, control, control performance, documentation, electrical, evaluation, information technology (IT), measurement, metrics, network, PoE, procedures, verification, video, video performance, visual system, wireless microphone, wireless system operation

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Foreword

This Standard provides a framework and supporting processes for determining elements of an audiovisual system that need to be verified, the timing of that verification within the project delivery cycle, a process for determining verification metrics, and reporting procedures.

As audiovisual systems have increased in complexity, the chances of misconfiguration, improper installation, and failure to conform to project requirements increase. Managing expectations and verifying conformance with stated project requirements of audiovisual (AV) systems is the major goal of this Standard. While many organizations have internal processes and verification procedures, there is an industry-wide need to utilize project documentation along with this Standard to identify elements within an AV system that require measurement and verification. Use of this Standard supports a comprehensive, systematic, and practical approach to verifying performance of AV systems.

This Standard requires that project documentation has been created for the project being verified. Documentation will vary from project to project and the standard does not prescribe the nature and extent of the project documentation. Conformance to the Standard is not possible without project documentation.

This Standard assumes that a project owner's operational specifications have been established in the system/project documentation.

This Standard does not provide a "one size fits all" verification pathway, but a means to enable the user of the Standard to develop a project-specific list of system performance verification items based on performance requirements defined in the project's documentation. Being able to assess the performance of the audiovisual system based on what was defined in the project's documentation should reduce dissatisfaction at the end of the project.

Using the Standard, consultants, integrators, manufacturers, technology support staff, owners, third-party commissioning agents, and architects who have system performance verification processes in place can integrate those existing processes into the framework this Standard provides, adding customized items to those already defined in the Standard.

Benefits of using this Standard are not limited to but include:

- Ability to streamline verification tests and reporting;
- Providing a verifiable outcome;
- Creating a common language between all parties;
- Aligning outcome and performance expectations at an early stage in the project;
- Creating reporting that completes the project documentation; and
- Reducing project risk through early identification of problems, thereby reducing the likelihood of remedial work.

This Standard should be used in conjunction with ANSI/INFOCOMM 2M-2010 *Standard Guide for Audiovisual Systems Design and Coordination Processes* as well as other relevant performance standards.

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InfoComm International® is the leading non-profit association serving the professional AV communications industry worldwide. Founded in 1939, the association offers industry expertise and market research serving press and others seeking information about the industry. Through activities that include trade shows, education, certification, government relations, outreach, and information services, InfoComm promotes the industry and enhances members' ability to conduct business successfully and competently. InfoComm International is the ANSI Accredited Standards Developer (ASD) dedicated to the dissemination of the knowledge of audiovisual systems performance parameters.

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1 Scope, Purpose, and Application

1.1 Scope

1.1.1 This Standard provides a comprehensive evaluation framework and associated processes to verify functionality and performance of an audiovisual system in accordance with the system's project documentation. The Standard identifies the timing of verification; a list of reference items to be considered, delineated by their function as related to the system; a process for determining verification metrics; and reporting procedures.

1.1.2 This Standard identifies audiovisual system performance-evaluation requirements for the following 13 functional categories:

- Audio Performance
- Video Performance
- Audio/Video Performance
- Cable Management, Termination, and Labeling
- Control Performance
- Electrical
- Information Technology
- Operations and Support
- Physical Environment
- Physical Installation
- Serviceability
- Wireless
- System and Record Documentation

1.2 Purpose

1.2.1 The purpose of this Standard is to provide a framework for the verification and reporting of the performance of an audiovisual system based on the requirements specified in the system's project documentation. The Standard defines 160 potential verification items; a process for determining which items are germane to the project and a way to incorporate additional items; a process for defining the evaluation metrics for verification; a process for verifying the items; and a process for how and when to report those results.

1.3 Application

1.3.1 This Standard can be utilized by all parties involved in the audiovisual system installation process including consultants, integrators, manufacturers, technology support staff, owners, third-party commissioning agents, and architects to verify the performance of audiovisual systems throughout the integration process.

1.3.2 Planning for the use of this Standard should begin with the project's initiation. The framework provided by this Standard should be integrated into the project's project management and/or quality management processes. For organizations that have existing project management and/or quality management programs, the framework provided by this Standard can be integrated into existing processes. Conformance to the Standard shall require that all requirements of the Standard are included; this Standard does not provide for partial conformance.