

# CASE STUDY

INTERNATIONAL  
DISPLAY SYSTEMS, INC.



## Overview

In January 2023, International Display Systems, Inc., partners with the Metropolitan Nashville Airport Authority since 1996, delivered the following fully integrated specialty systems in support of the opening of the new Grand Lobby & Central Terminal Expansion at the Nashville International Airport.

- *Large Format Electronic Message Display System* which consists of two Nanolumens 69' x 10' DVLED Video Walls and display 4K, 8K, and 12K images of Flight Information, Destination Weather, Thematic Analog Clocks, and Artistic Videos of the Nashville Area.
- *Electronic Visual Information Display System Content Management System* which is built on the Infax Engage4 EVIDS and Omnivex Moxie CMS for a "Best-In-Class" solution.
- *Emergency Communication System* which is built on the QSC Q-SYS Digital Signal Platform that integrates with QSC's Digital Microphones, Mixers, I/O Frames, Redundant Amplifiers, and Speakers. The QSC Q-SYS also features a Simpleway SimpleVOX User Interface for Audio/Visual Playback and Synchronization.
- *Queue Management System* which consists of Eight (8) LiDAR Sensors and Skyfii Analytics.

“ The new video walls integrate beautiful electronic art and helpful wayfinding information, which fully complements the airport's vision for the new Grand Lobby.

– ROBERT KEELOR, PRESIDENT OF IDS, INC. ”



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4K LARGE FORMAT  
ELECTRONIC MESSAGE  
DISPLAYS

231

ELECTRONIC VISUAL  
INFORMATION  
DISPLAYS

8

LIDAR SENSORS SERVING  
THE NEW SKYFII QUEUE  
MANAGEMENT SYSTEM

1209

EMERGENCY  
COMMUNICATION  
SYSTEM SPEAKERS

50

MICROPHONE STATIONS





## System Highlights:

- Large Format Electronic Message Display System (LFEMDS)
- Electronic Visual Information Display System/Content Management System (EVIDS/CMS)
- Emergency Communication System (ECS)
- Queue Management System (QMS)



## Ideas

**Systems Integration** – IDS, partnering with BNA, Burns Engineering, Gentilhomme, Smart Monkeys, Infax and Omnivex, helped to bring conceptual ideas to successfully integrated results (i.e., 4K, 8K, and 12K resolution images, videos, and live data integrated into a cohesive unified solution) which provides travelers with helpful wayfinding information and stunning visual effects. IDS's new Large Format DVLED Displays integrated with Flight Information, Destination Weather, Large Analog Clocks, and Super High-Resolution Videos was recently featured in the May/June 2023 Edition of Airport Improvement Magazine. Please click [here](#) for additional details.

## Performance

**Synchronized Sights & Sounds** – The BNA Vision Project Team wanted to ensure that up-to-date Flight Information and important Airport announcements were delivered in a clear and consistent manner. The QSC/Simple VOX audio announcements are shared through a data interface with the Infax/Omnivex Content Management System so that every passenger can receive the same information (i.e., audibly and visually). These automated or manually activated announcements can be zoned to specific areas of the Airport or broadcast globally.

## Dependability

**Choose Wisely** – The IDS Project Team provided BNA with a robust EVIDS/CMS/ECS that is built upon a reliable infrastructure of core servers and Audio/Visual Distribution Equipment, including physically and geographically redundant virtual servers, audio DSPs, and redundant distribution amplifiers.

