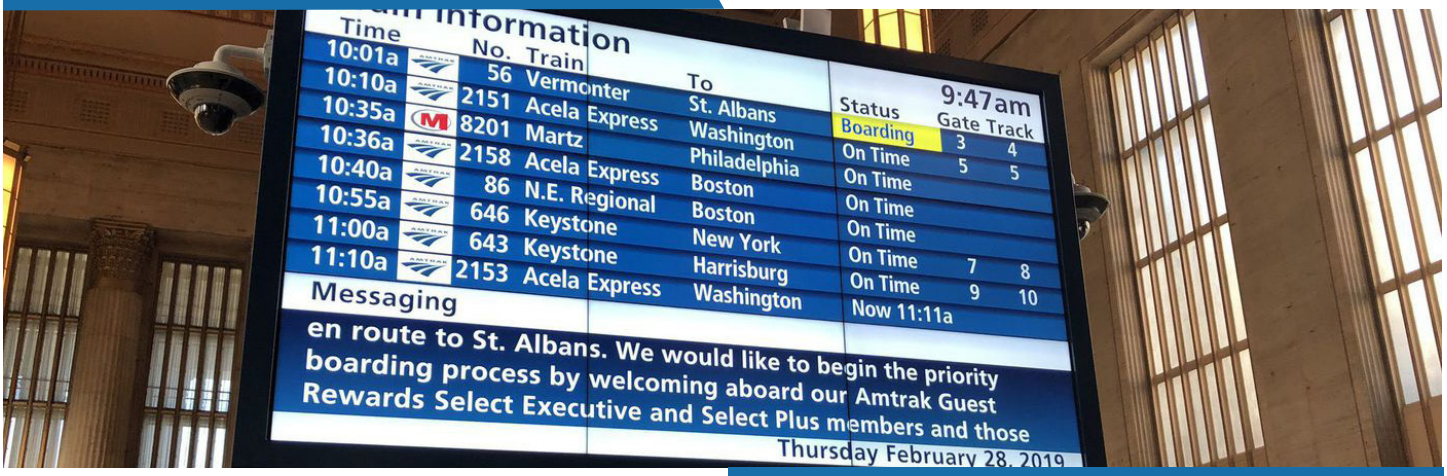
CASE STUDY

INTERNATIONAL
DISPLAY SYSTEMS, INC.



Overview

In February 2019, International Display Systems successfully completed the upgrade of the Legacy Analog Split-Flap Sign Technology & Public Address System at the Philadelphia 30th Street Station to a Modern Digital Format that fully-supported Amtrak's Goals for ADA-Compliance, Automation of Train Information Updates & Messaging, and Improved Customer Access/Experience.

This $7M Three Phase Project included a new IDS Passenger Information Display System (PIDS) and Public Address System (System) in the (1) Main Train Hall, (2) Five Double-Berth Train Platforms, and (3) Acela Club Room, Ticket Counter, Baggage Claim, Food Court, and multiple station accessible pathways.

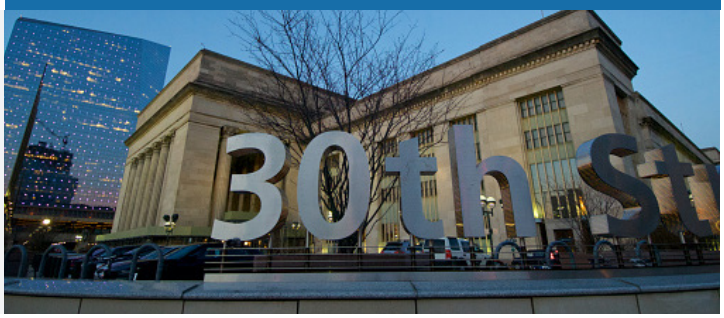
The new PIDS/PAS is built upon a new Fiber GPON Network that also supports Station Security and Operations.

AMTRAK

Philadelphia 30th St. Station

2	LCD VIDEO WALL DIRECTORY BOARDS
10	LCD VIDEO WALL GATE BOARDS
6	FLOOR MOUNT TRAIN INFORMATION / VISUAL MESSAGING KIOSKS
12	WALL MOUNT TRAIN INFORMATION / VISUAL MESSAGING KIOSKS
86	LCD DISPLAYS
75	PLATFORM LED SIGNS
550	SURFACE MOUNT SPEAKERS
7	LINE ARRAY COLUMN MOUNT SPEAKERS

> "The new, digital and state-of-the-art PIDS board that will take its place allows us to have a more modern and tech-friendly station with an ADA-compliant display board."
>
> - DAVID HANDERA, AMTRAK VP OF PASSENGER ACCESSIBILITY



INTERNATIONAL
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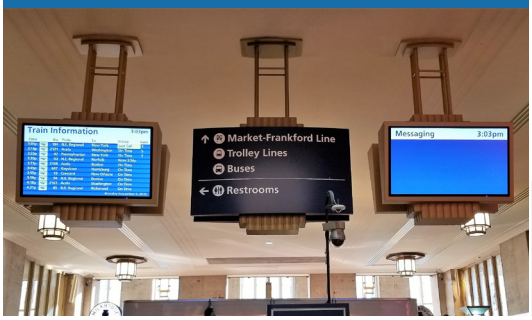
CASE STUDY
Philadelphia 30th St. Station

System Highlights:

- ADA-Compliant Passenger Information Display System (PIDS) / Public Address System (PAS) with Synchronized Audio/ Visual Messaging
- Large Format Train Information/Gate Information Video Walls
- Acoustically Engineered/Tuned Audio for Coverage Areas & Clarity
- GPON Network Infrastructure



Ideas

"Amtrak's new information board does offer some real benefits, particularly for people with hearing issues. As trains are announced over the loudspeaker, the words appear simultaneously on the screen. The absence of such audiovisual parity on the old board was a violation of federal disability laws. Amtrak deserves credit for addressing that lapse." - The Philadelphia Inquirer, March 1, 2019

Performance

The Main Hall of the William H. Gray 30th Street Station is 290 by 135 feet, nearly the dimensions of a football field, with ceilings 95 feet high. How do you achieve audio coverage and clarity in this massive Main Hall, with marble floors and walls that like to echo the sound? IDS provided detailed Acoustical Engineering Models of the facility, allowing us to engineer the best solution. We couple this design with powered DSP steerable Line Array Column Speaker to fine tune the direction and dispersion of the sound at multiple frequencies.

Dependability

The subway platforms beneath the Philadelphia 30th Street Station required ruggedized Platform LED Signs. The Daktronics Galaxy NEMA 4X LED Signs provide reliable 100,000 hour lifecycle operation. Likewise, Extron Digital Video Tranceivers reliably distribute centralized video throughout the station.

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