

NY 1 NEWS CONTROL ROOMS

SI
AZZURRO

Scope of Work

- Design and install two identical control rooms.
- Repurpose existing systems to accommodate new design.
- Integrate Sony 8000G production switcher, Chyron LEX2 graphics system, Ross SoftMetal Multi-Channel servers, and Shotoku camera robotics into control rooms and related studios.
- Locate and protect usable cabling between control rooms, studios and central equipment room. Re-label connections to reflect design changes.
- Decommission existing control room – remove all unusable equipment and wiring.
- Install control room consoles to support system electronics and personnel.
- Develop flexible and adaptable primary monitoring design for each control room utilizing eight 47" portrait-oriented displays fed by an Evertz MVP Multiviewer system to allow up to 56 unique video signals. Mount Wohler audio monitor panels in the console.
- Install Harris Rasterizers in the equipment room and remote panels in the control rooms for critical signal quality control and monitoring, and troubleshooting.
- Locate six LCD monitors within the ceiling soffit for competition monitoring.



"NY1 News was in need of a production control room operations upgrade. Azzurro was able to design and implement a highly functional automation driven operation at our flagship station in NYC. Azzurro delivered the job both on time and on budget with minimal project modifications. We are very proud of the facilities."

-NY1 News, VP Operations and Engineering

The Challenge

- Rebuild primary News and Production control rooms and support facilities using phased approach maintaining 100% operational capability during the construction.
- Evaluate feasibility of utilizing existing equipment and systems; identify and protect usable material, decommission unusable cables and gear.
- Improve workflow and environment.

The Project

Maintaining 100% operational capability during construction of its two new production facilities was of vital concern for NY1 news. Azzurro Systems Integration responded with a detailed plan describing each task, a precise timeline defining expectations, and a team of professionals skilled in live environment system builds. This significant and highly challenging project was completed in phases to allow NY 1 to always have 3 of the 4 control rooms active during the renovation project.

Control room N, the center for integration of daily programming elements, was first to be completed, followed by control room A that supports the production studio. Both rooms were built from the same plans with virtually identical equipment compliments. Since the same crews and designs were used, economies of scale regarding drawings and cable run sheets were realized.

Working with NY1, Azzurro developed a design to take full advantage of all available opportunities. Azzurro located and protected any existing cabling deemed usable, and removed unstable equipment and wiring. Existing digital video/audio routing switchers and demarcations were repurposed to suit the new configuration. Each room was fitted with a TBC console, a Sony 8000G switcher, a Wheatstone D8 audio mixer, and Shotoku robotics.



The design called for monitoring to be accomplished with eight 47" portrait-oriented displays fed by an Evertz MVP Multiviewer system, each monitor fed with an independent output. These displays comprise the main monitor wall and provide program, preview and signal repeat monitoring. Several quad and dual LCD displays were installed at strategic locations in the consoles for isolated monitoring of VTRs and cameras. A 42" LCD display, also fed by the Multiviewer, provides repeat monitoring of the audio operator.

Control room N has the ability to monitor 56 inputs of which 16 are HD. AES/EBU digital audio and analog audio inputs accompany the video, as required. NY1 has the option to leave the configuration static, or modify it to accommodate changing needs. Where applicable, visual monitoring of embedded AES audio streams is provided via a bar graph display overlaid upon the video source. Wohler audio monitor panels provide confidence audio monitoring.

Critical signal measurement monitoring is accomplished via Harris rasterizers which are mounted in the Equipment room and controlled remotely from the Control Rooms. Another rasterizer supplies critical signal quality control and troubleshooting. Six 19" LCD monitors located within the ceiling soffit facilitate competition monitoring.

Azzurro installed a Wheatstone D8 matrix-based audio mixer to meet the current, as well as future, needs of NY1.

Chyron LEX2 systems and Ross SoftMetal servers are available to the production switcher for graphic element integration. Each has its own keyboard, mouse and monitor wired through the new Avocent KVM switch to furnish maximum flexibility and redundancy.

A Dalet newsroom Automation System communicates with a Chyron LEX2 system for lower third and full screen graphics and also with an Omneon server for playback, recording and trimming of video segments.

Azzurro fabricated and terminated all cables and assemblies in its Northvale facilities. All cables were sweep tested to eliminate any onsite cable failures.

The Technology

- Sony 8000G Digital Production Switcher
- Chyron LEX2 Graphics
- Ross SoftMetal Multi-Channel Servers
- Shotoku Robotic Camera System
- Evertz MVP Multiviewer
- Sony 47" Displays
- Sony 42" Displays
- Samsung 19" Displays
- Harris Rasterizers
- Image Video TSI-100 Tally System
- Wheatstone D8 Matrix-based Mixer
- Avocent KVM Switch
- Wohler Audio Monitors
- TBC Consoles

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