

Technical Services

All use of the broadcast, cabling and sound systems must be pre-approved by Mandalay Bay Convention Center. Specific equipment is subject to change by Mandalay Bay without prior notice.

Sound System

The facility is equipped with an extensive sound system covering all exhibit areas, ballrooms, meeting rooms and pre-function areas.

The facility boasts an extensive audio control system to manage audio for over 100 of the center's rooms from multiple control locations. Audio for the facility is distributed over fiber-optic Ethernet network to ensure the highest quality signals.

The ballrooms are equipped with 12" coaxial speaker systems mounted in large back boxes for improved bass response. All other meeting rooms and pre-function areas are equipped with 8" wide range speakers. Both of these systems are well suited to speech reinforcement and light music playback. It is recommended that auxiliary sound systems should be utilized for other purposes. All speaker systems have been "tuned" utilizing 5-band parametric equalization to maximize sound quality and gain before feedback. The exhibit areas feature high ceiling pendant speakers with well-controlled narrow coverage, ideal for improved voice intelligibility and musical clarity.

North Convention Center Specifications

- ***Broadcast Cable System***

The two large ballrooms in the North Convention Center, Islander and South Pacific, have two broadcast panels each. These panels contain six video connections, one DT12 audio twelve-pair connection, and four triaxial connections to our central control and patch room. One panel in each large ballroom has six multi-mode fiber optic pathways and six single-mode fiber optic pathways to our central control and patch room. The smaller meeting rooms have a limited fiber optic infrastructure.

- ***CATV System***

The North Convention Center is equipped with a very limited patchable CATV system. A cable television signal can be patched to an individual room or group of rooms (total of 16) on a first-come, first-served basis. This signal uses our video infrastructure for pathway.

- ***Central Control***

All audio and video systems are centrally located in our AV patch room. The patch room houses an FSR room combing system for audio and a patch bay with multiple distribution amplifiers for video. The audio system is an analog mixer based system using Ashly Audio mixers and QSC power amplifiers.

- ***Lighting Control***

Lighting control is achieved by a unison architectural light system. An LCD touch screen is located in every meeting room for light control. A lighting console can be used in a limited capacity to control an entire ballroom (Islander and South Pacific) using DMX protocol.

South Convention Center Specifications

- ***Broadcast Cabling System***

The South Convention Center is equipped with an extensive system of TV broadcast panels enabling connection of TV broadcast trucks and satellite trucks to multiple locations within the facility. Each one of thirty-six facility connection panels contains four triaxial connections that can be cross-patched in the central patch room to any one of seven parking locations for TV & satellite trucks.

Each broadcast panel also contains fiber-optic connections (six multi-mode and six single-mode) that can be cross-patched to any other broadcast panel or TV & satellite truck panel in the facility. Fiber-optic and triaxial connections can also be made to the Mandalay Bay Event Center. From the Event Center patch room, fiber-optic and triaxial connections may be made to all other parts of the Mandalay Bay Resort property.

- ***CATV - MBTV System***

The South Convention Center is equipped with a dual CATV – MATV distribution system. The CATV system is designed to distribute cable TV (COX Cable) throughout the facility to wall plates and floor pockets in the ballrooms, meeting rooms, public and lobby areas, and to the exhibit halls.

The internally-generated MATV (Mandalay Bay TV) system is designed to distribute several channels of special programming throughout the facility. Internal sources such as DVD, BLURAY, DSS Satellite and CATV channels, may be programmed into the MATV system for special use. In addition, guests can also develop their own TV programming specific to their event or convention, for broadcast via MATV. All programming and content provided by you or your exhibitors must be pre-approved by Mandalay Bay, at our sole discretion.

The facility is also equipped with an extensive system of empty conduits to enable client-provided satellite receivers to be mounted on the Convention Center roof.

- ***Central Control***

All of these systems are monitored and configured from a central control and patch room. All of the systems described above were designed to provide the Convention Center user with state of the art signal connections making it easy to get “wired” at the Mandalay Bay Convention Center. Four DMX music sources are available via an AMX keypad located in each meeting room. Additional technical systems details are available on request.

- ***Production Cabling Systems***

Throughout the South Convention Center ballrooms and meeting rooms are a series of “production panels” in wall plates and floor pockets. These panels contain audio and video connections that can be “linked” to provide audio and video trunk connections that are inner-room (from one end of a room to the other) or inter-room (from room to room).

The production panels also contain multi-mode fiber-optic connections that are patchable at centralized locations to enable the same inner-room and inter-room fiber-optic connections to be made.

A four-channel production intercom system is also accessible at each production panel location. These intercom channels may be linked between floors or to broadcast locations to provide production communications for facility events. The in-house intercom system is Clear Com type; however, conversion equipment is available to interface this system with RTS type intercom systems as well.

Each production panel also contains four DMX, five-pin, dual-universe receptacles. Like other wiring types in the production panels, these DMX connections can be cross-patched inner-room or inter-room for lighting control of large events utilizing multiple rooms.

The production panels also contain CAT-6 cabling connections that are cross-patchable. These are intended for use with SVGA over UTP converters and provide a convenient method of transporting computer-projection signals throughout the facility, without extensive RGBS cabling.

- ***Lighting Control***

Lighting control is achieved by a unison architectural light system. A panel is located in every meeting room for light control.

Delano Specifications

All meeting rooms have connections for audio, video, fiber optic, ethernet, phone, commercial cable TV and in-house cable TV. In addition, all of the boardrooms are equipped with a motorized projection screen and a TV.

Sound systems are located in the ceiling and have two local inputs per room. These are located at the front of the room on an A/V panel. One input is for a microphone such as a podium. The second input is for a higher-level line input that might come from a playback device such as a MP3 player or wireless microphone source.

There is also a line output connection available on this panel which can be used for a recording feed or a feed for a portable assistive listening (ADA) system should such a system be required.

There are multiple music sources available in each meeting room. Music channels can be selected via the sound control panel located on the entry wall. The sound control panel can independently control the levels of the microphone input, line level input, music input and one additional input (aux in) that is a patched feed from an external source such as another meeting room or a satellite feed. The sound control panel functions as a four input mixer located locally in each meeting room. The sound control panel can also:

- Combine two adjacent meeting rooms for unified use when their common air-wall is opened
- Separate the two rooms when they are used independently
- Advance the music selection through the available background music channels
- Mute the sound system (pressing again will release the mute)

Located in each meeting room are A/V and fiber connection plates. Through these plates each meeting room can become the source, destination or link to other meeting rooms for a variety of A/V & fiber optic signals.

Each Meeting room A/V panel contains:

- Microphone input – (described above)
- Line input – (described above)
- Line output – (described above)
- 1 x Video tie-lines
- 2 x Audio tie-lines
- 4 x RJ-45 / Cat-6 tie-lines
- 1 x CATV - feed connection (Cox Cable System)
- 1 x MATV - feed connection (internal hotel TV system)

In addition there are two fiber-optic connection plates in each meeting room: One plate contains 6 x (ST connector) single-mode fiber optic (SMOF) tie lines One plate contains 6 x (ST connector) multi-mode fiber optic (MMOF) tie lines

All tie lines (audio, video, Cat-6 and fiber optic) connect back to a central AV control room located on the second floor, where any line may be cross-connected to any other line, linking the meeting rooms. In addition external sources and destinations may be linked to these meeting rooms via the central control room via fiber, audio, video and CAT-6.