

A premium venue for corporate events

A state-of-the-art auditorium in Sant Cugat, designed for conferences, business meetings, and corporate events.

AUDITORI
GRIFOLS

Discover the Auditori Grifols in Sant Cugat



Located at Grifols' prestigious facilities in Sant Cugat, our auditorium is the ideal setting for your corporate events. With a capacity for 390 attendees, state-of-the-art technology, and a professional atmosphere, it is the perfect venue for conferences, seminars, presentations, and high-level business meetings.

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1. AUDIO SYSTEM

The Auditorium's audio system is operated entirely from the sound engineer's console. The operator uses the mixing console (Digico S21) to control mix levels, as well as a monitor, keyboard, and mouse to manage the stage and audience microphone systems via dedicated control interfaces.

The Foyer's audio system is controlled exclusively via the Crestron control screen located in the Foyer's control booth.

The following components make up the Auditorium's audio system:

- Wireless handheld, headset, and lapel microphones
- Wireless desktop and lectern conference units, wired lectern microphone
- Seat-mounted conference microphones
- Simultaneous Interpreting Consoles
- Audio from the video distribution system's audiovisual sources, such as control room PCs, videoconferencing systems, and connections provided for on-stage AV sources and streaming systems (streaming systems are not included in the scope of this project)

The following components make up the Foyer's audio system:

- Wireless handheld and headset microphones
- Tabletop announcement microphone
- PDA system and Bluetooth audio receiver (not included in the scope of this project, but integrated into the audio processing and control system)

The following components make up the Auditorium's audio destinations:

- Main public address (PA) system in the Auditorium
- Stage audio monitoring speaker system (stage monitors; not to be confused with stage video monitors)
- Video conferencing systems
- Deliveries to audiovisual outlets for streaming equipment
- Audio distribution to the speakers on the audience participation consoles of the wireless stage conference system
- Distribution to the consoles of the simultaneous interpreting system (hall audio channel or floor channel)
- Distribution to the audiovisual receivers of the monitoring screens in the Green Room and the Original Auditorium
- Distribution to the Foyer's audio system

As for the Foyer, its audio outputs are as follows:

- Foyer ceiling speaker system
- Boulevard ceiling speaker system

1.1. MIXING AND ROUTING SYSTEMS

The Auditorium's main mixing and distribution system consists of the mixing console (Digico S21) and its corresponding audio patch panel in the stage rack (Digico D-Rack-2).

The digital mixing console allows the audio engineer to mix different audio sources and route them to various destinations.

In addition, the console features a set of analog audio inputs and outputs, located on its rear panel and on the stage rack (also known as the backstage rack), which allow additional sources or powered speakers to be added, if necessary. For this purpose, there is a set of stage connection boxes with audio inputs and outputs connected to the aforementioned rack. All analog stage inputs and the console's own inputs accept balanced microphone- or line-level signals and can provide +48V phantom power.

The mixing console's audio signal connection, routing, and mixing capabilities are as follows:

Number of mixing channels	48 (mono or stereo)
Number of mixing buses	16
Analog inputs/outputs on the console	24/12
Analog inputs/outputs on the stage rack	32/16
DANTE digital inputs/ outputs	64/64
Motorized faders	21
Touch screen software	2
Performance by channel/bus	8 Matrices 10 VCA, 10 Mutes. 40-bit floating-point DSP resolution Per-channel processing with gain, delay, HPF, LPF, and dynamic 4-band parametric equalization. Compressor, Limiter, Noise Gate/D-Esser. It includes 8 stereo FX processors and 16 graphic equalizers. 2 insert points per channel or bus. 4 insertable dynamic equalizers.



1.2. AUDIO PROCESSORS

The system includes three BSS BLU 806 digital signal processors (DSPs). Each processor features a combination of analog audio inputs and outputs (configurable by installing interface cards, with a maximum of 16 channels in total), as well as 64x64-channel DANTE/AES67 connectivity.

1.3. AMPLIFICATION

The audio system includes a set of Crown Drivecore CDI multichannel amplifiers to deliver amplified audio to the speaker systems installed in the Auditorium, Foyer, and Boulevard. The amplifiers receive a balanced line-level analog signal from their respective audio processors.

1.4. SOUND SYSTEMS

AUDITORIUM PA SYSTEM

The Auditorium's public address (PA) system consists of:

- 2 clusters of 4 JBL VRX932LA-1 speakers suspended from the ceiling of the room
- 4 JBL AC26 front-fill speakers positioned at the edge of the stage
- 2 JBL VRX918S subwoofers located in an accessible compartment at the front of the stage

Each speaker in the clusters, as well as each subwoofer, is connected to an amplifier channel. This allows the level of each loudspeaker to be adjusted to achieve sufficient coverage uniformity across all seating areas in the Auditorium.

FOYER PA SYSTEM

The Foyer's PA system consists of a set of high-performance ceiling speakers, comprising 9 JBL Control 47 C/T full-range speakers and 3 JBL Control 40CS/T subwoofers.

Each of these speakers is connected to an amplifier channel.

BOULEVARD SOUND SYSTEM

The Boulevard's sound system consists of a set of 24 JBL Control 16C-VA ceiling speakers.

These speakers are connected in groups of 6 to a total of 4 amplifier channels, which allows sound pressure levels and frequency response to be adjusted for each of the four subzones that make up the area covered by this system.

AUDIO MONITORS

Two JBL EON 610 self-powered speakers are available for use as on-stage monitor speakers. To that end, both speakers can be connected to the audio output jacks on the stage cabinets.

In the control room, there is a pair of JBL 306P MKII audio monitors located at the audio operator's station, as well as two pairs of M-Audio BX3 audio monitors located at the video source control console and the streaming console, respectively.



1.5. WIRELESS MICROPHONE SYSTEM

The Auditorium is equipped with a Shure ULX-D wireless microphone system, consisting of:

- 4 handheld microphones
- 4 bodypack transmitters
- 2 headset microphones for bodypack systems
- 4 lapel microphones for bodypack systems

1.6. ON-STAGE CONFERENCING SYSTEM

The Bosch Dicensis stage conference system features 18 wireless tabletop discussion units (conference desks) that can be placed anywhere on stage without the need for wiring, as they are battery-powered. The system also includes an additional unit equipped with a gooseneck microphone, designed for use on a lectern.

In addition, the auditorium is equipped with two gooseneck tabletop microphones for use on a lectern.

1.7. SEAT-MOUNTED MICROPHONE SYSTEM

The front center row of seats is equipped with 68 participant microphones connected to a Bosch DCN conference system. The microphones are connected to the audio jacks located on the back of the seats themselves (or to the wall in front of the first row of seats, in the case of the front-row microphones) and are controlled by the central control unit (CCU) of the DCN conference system, which manages the system and interfaces with the Auditorium's audio system.

The 68 microphones serve the seats in rows 1 through 11 of the central seating section. The seats are equipped with connection ports and mounting clamps, allowing microphones to be installed in their designated positions.

1.8. SIMULTANEOUS INTERPRETING SYSTEM

The installed Bosch Dicensis simultaneous interpreting system, combined with the infrared radiator system, allows up to three interpretation languages to be available at an event.

1.9. FOYER MICROPHONE SYSTEM

The Foyer is equipped with one ULX-D 2-channel wireless microphone receiver for events held in this space. It includes 1 wireless handheld microphone and a bodypack transmitter with a headset microphone. The receiver is connected to the Foyer's DSP 3 processor, which acts as a microphone mixer.

In addition, there is a gooseneck tabletop microphone for making announcements and broadcasts to the Foyer and Boulevard areas.

1.10. PRESS SPLITTER

A portable audio splitter is available to distribute the audio signal to third parties. It features a balanced audio input and 12 transformer-isolated outputs with a balanced microphone-level signal.



2. VIDEO SYSTEM

The Auditorium's video system consists of a set of video sources, an IP-based video transmission system (VoIP), a set of digital video signal processors, and a set of video playback, transmission, and/or recording systems.

The video system includes the following tools for its operation:

- A touchscreen control panel in the Auditorium's control room, which allows signals to be routed using presets or preconfigured memories, or via a virtual routing matrix
- A camera signal mixer, which enables the production of multi-camera events using the 5 installed cameras
- A video signal processor, which enables the display of multiple video sources on the main screen in the Auditorium
- Control screens for video conferencing systems, which allow management of participation in video conferences, as well as the sharing of video signals

The following components make up the Auditorium's video system:

- Video camera system
- Content management computers
- Wireless content sharing system
- Video conferencing systems
- Preconfigured video transmitters for use as video sources

The following components make up the Auditorium's video destinations:

- Main screen in the Auditorium
- Display monitors on stage tables and lecterns
- Stage confidence monitors
- Monitors for interpreting booths
- Monitoring screens in the Green Room
- Poly and Teams video conferencing systems
- Video processor
- Camera switcher
- Preconfigured video receivers for use in streaming control (*) and in the Original Auditorium

(*) The control room at the Auditorium is equipped with a workstation designed for broadcasting or streaming events. The audiovisual system installed in the project described in this document does not include equipment specifically designed for that purpose.



2.1. CAMERA SYSTEM

The system features a total of 5 robotic PTZ cameras (pan, tilt, and zoom):

- 2 on the right side for stage and audience shots (resource)
- 1 on the left side for stage and audience shots (resource)
- 2 at the back of the room for stage shots

The installed cameras are the Sony SRG-X400BC. They feature a 40x zoom lens (30x in 4K mode) and support streaming at resolutions of 1920x1080 at 60 Hz or 3840x2160 at 29.97 Hz.

CAMERA CONTROL

All cameras are controlled remotely from the Sony RM-IP500/AC control console. The pan, tilt, and zoom (PTZ) of the cameras can be adjusted from the console, as well as the color, white balance, exposure, and focus settings. In addition, the console has buttons that allow the settings for each camera to be saved and retrieved.

CAMERA MIXER

The system includes a camera switcher that supports basic camera switching functions. The Roland V-600 UHD video mixer has 6 video inputs (*) capable of scaling and processing signals with resolutions of up to 3840x2160 at 4:4:4 and 60 Hz.

The mixer's output resolution is set to 3840x2160 at 4:4:4 and 60 Hz.

MONITORS

The camera system features two 27" preview monitors that make production tasks easier.

2.2. CONTENT MANAGEMENT COMPUTERS

Two 24" Apple iMac computers are set up at the video operator's desk, used for playing and recording videos and presentations, as well as for controlling the video processor.

PRESENTATION CLICKER

A wireless presentation clicker system has been installed. The system, the Interspace Industries MicroCue3 model, consists of a handheld remote control with forward and backward buttons and a radio frequency receiver that converts the remote control's commands into USB signals that can be connected to up to three computers. This equipment allows a PowerPoint or Keynote presentation being played from one or more computers in the control room (*) to be operated directly from the stage.

(*) Having three USB ports allows simultaneous control of presentations from multiple computers, which enables management of a main on-screen presentation, an alternative version with speaker notes, or a backup computer for on of the others.

2.3. WIRELESS SHARING SYSTEMS

A Barco Clickshare CS-100 wireless content-sharing system is available. This system allows wireless screen sharing for up to 8 computers, tablets, or smartphones via Wi-Fi (one at a time).

A Barco Clickshare CSE-200+ wireless content-sharing system is also available. This device supports wireless access for up to 16 devices, with up to 2 of them connected simultaneously.

2.4. VIDEO CONFERENCING SYSTEMS

The Auditorium is equipped with two videoconferencing systems compatible with Poly and Microsoft Teams. Both systems allow audio and video sources and destinations to be connected to the room's audiovisual system.

2.5. MULTI-WINDOW PROCESSOR

The Analog Way AQL-RSALPHA multi-window processor enables video signal composition from multiple video sources within the system, as well as from images that have been preloaded into the processor, for display on the Auditorium's main screen. To that end, the processor is capable of rendering images at the display's native resolution.

The processor features 8 4K inputs and 4 video mixing layers. In addition, it allows for seamless video mixing and switching, meaning that signal transitions occur without any interruptions or black frames.

2.6. DISPLAY SYSTEMS

MAIN SCREEN IN THE AUDITORIUM

The main screen in the Auditorium is an LED display made up of Absen A2719 Plus panels and is controlled by four Novastar MCTRL4K LED display processors.

The display measures 10.980 x 6.174 meters, with a pixel size of 1.9 mm and a total resolution of 5,760 x 3,240 pixels.

The display consists of 1,296 LED modules.

DISPLAY MONITORS ON STAGE TABLES AND LECTERNS

Eight 17" monitors are available for the conference tables, which can be used for events such as the property's General Shareholders' Meeting, as well as one 21.5" monitor for a lectern.

All of these monitors can be built into furniture and retracted; they are made with a

stainless steel frame and are part of the AH2 series from the manufacturer Arthur Holmes. Its resolution is 1920x1080 pixels.

STAGE CONFIDENCE MONITORS

Two 43" Samsung QB43R video monitors are available, mounted in custom-built stands, for use as stage monitors. The video operator can send order codes to these monitors for a presenter or speaker on stage, such as the same presentation the speaker is showing on screen, a separate feed with presentation notes, or even a view of remote participants or the remote presentation in the case of a videoconference. Its resolution is 1920x1080 pixels.

MONITORS FOR INTERPRETATING BOOTHS

The interpreting booths are equipped with two 27" BenQ SW271C monitors, allowing for the simultaneous display of two different video feeds in each booth—such as a camera shot of the stage, the audience, or remote participants, depending on who is speaking—along with any presentation that may be displayed on screen.

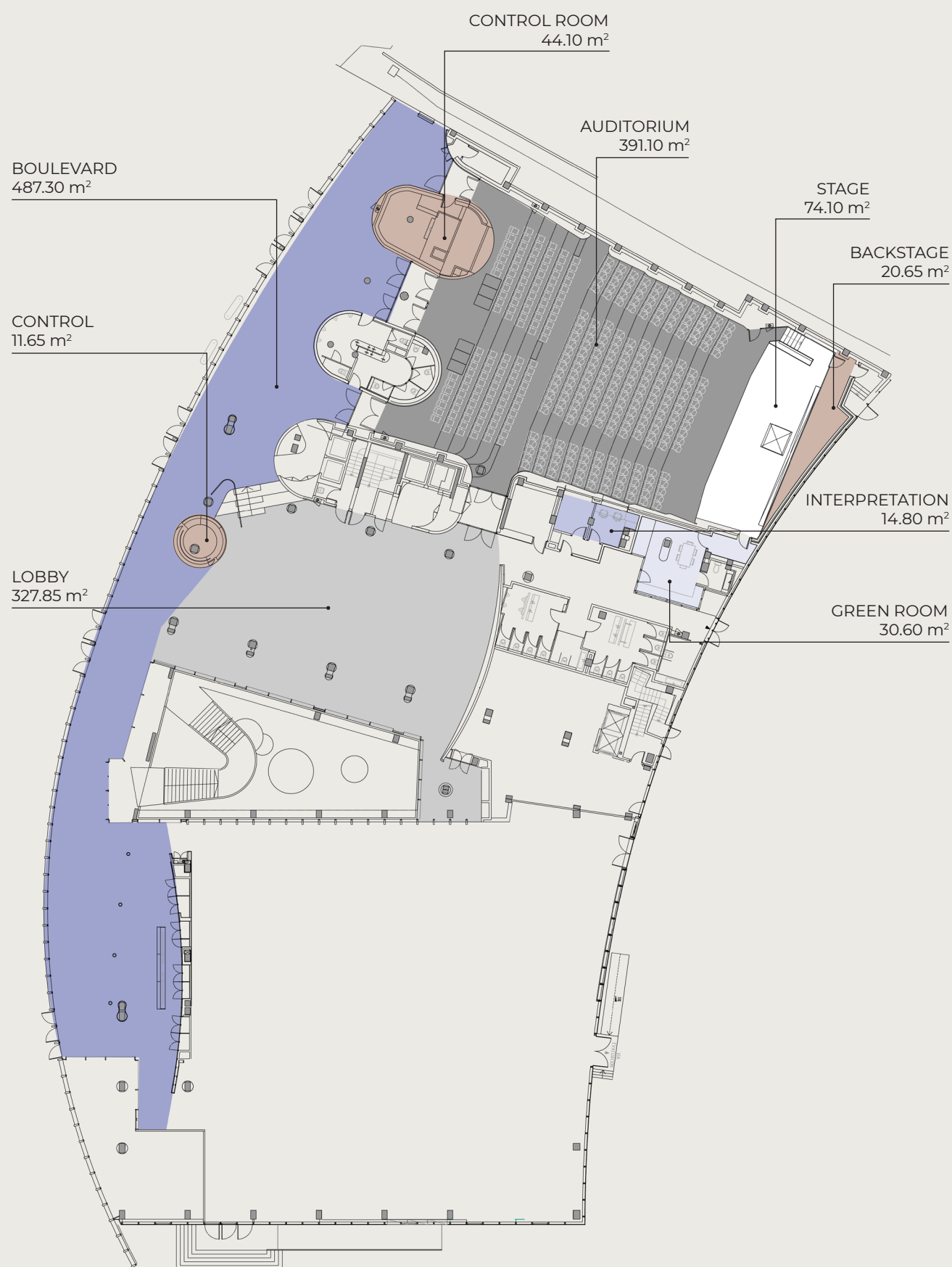
MONITORING SCREENS IN THE GREEN ROOM

Two 43" Samsung QB43R monitors have been installed to allow for monitoring of events from the stage green room or Green Room.

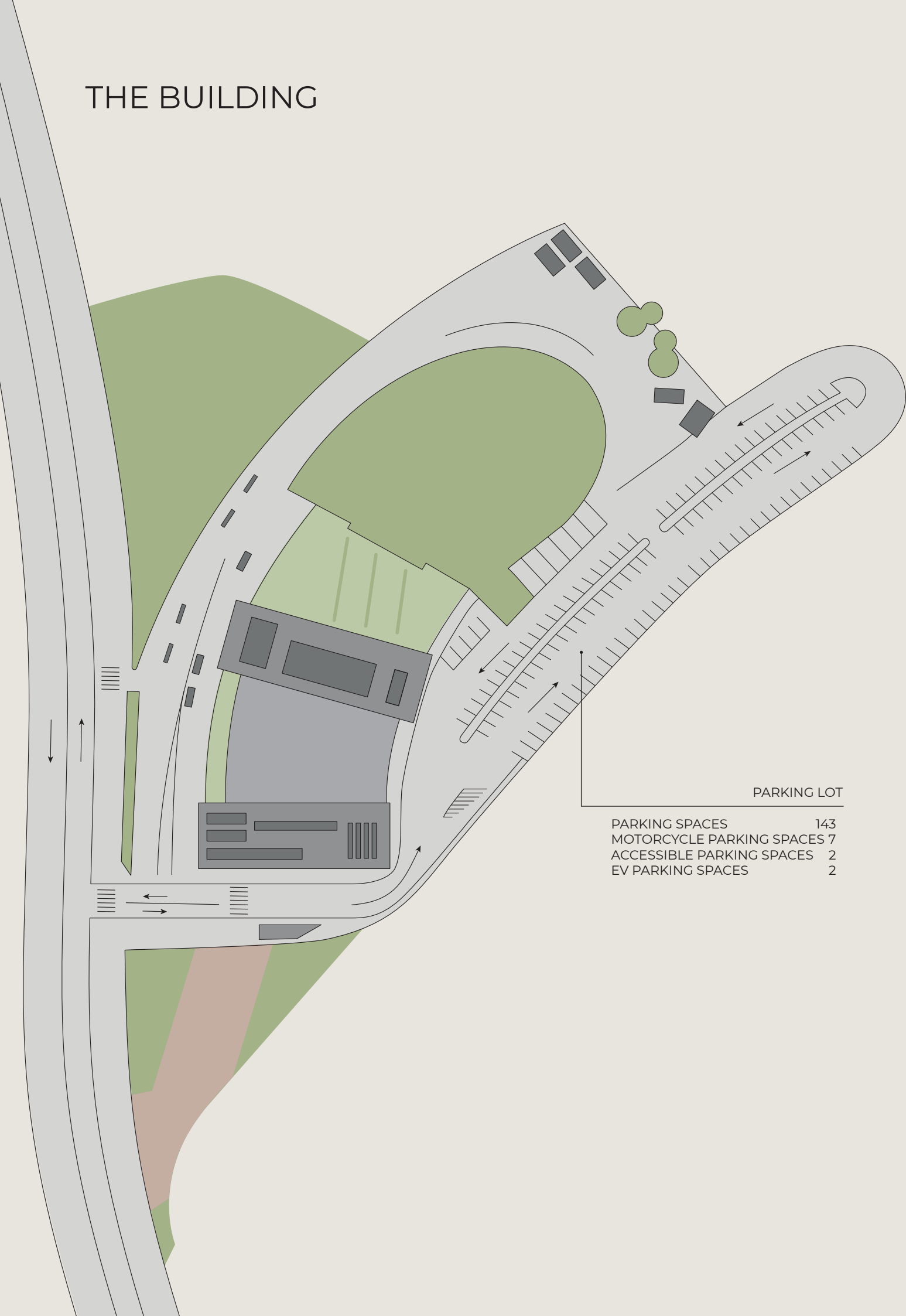
DIGITAL SIGNAGE MONITORS

Four Samsung QB43R digital signage monitors have been installed in the building's Boulevard and Foyer, near the entrances to the Auditorium.

THE SPACES



THE BUILDING



PARKING LOT

PARKING SPACES	143
MOTORCYCLE PARKING SPACES	7
ACCESSIBLE PARKING SPACES	2
EV PARKING SPACES	2



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