Customized Stage Management Systems

Nowadays, both theatres and opera houses rely on highly customized, cutting-edge and flexible stage management systems.

The stage manager is the contact between the director and the various technical departments: lighting, sound, costumes, make-up, the stage crew and props. The stage manager, being responsible for a smooth running performance coordinates and cues all technical aspects of a live production. Each stage management console is designed and built from a variety of system components - and each console is unique, because it is built to meet operational requirements.

Salzbrenner Audio Video Mediensysteme provides professional and highly customizable solutions, the Stage 100 and Stage 300, which are built to the venue’s detailed specifications.

**Basic-System Stage 100**

100V Paging System

- 64 paging zones
- Simultaneous signals
  - 2 paging signals in a system with speaker and line surveillance
  - 4 paging signals in a system without speaker line surveillance
- Amplifier surveillance
- Amplifier redundancy
- Speaker line surveillance
- Individual speaker surveillance
- Software-addressable speakers

Show relay

- Control of show relay audio
- Signal selection on local speaker units
- Volume control on local speaker units

LED cue lights

- Attention cue
- Acknowledgement

Control applications

Type 1 keys

- Text labeling
- Backlit
- Two key sizes
- Light bulb
- Optional LED keys
- Status indication:
  - Key backlight dimmed
  - Activated bright

**STAGE 100**

Summary:

Central control unit which houses following required components:

The central control unit is based on C.A.S. 100 system components.
Stage Management System Stage 300

Stage 300

Summary:
Central stage management control unit comprising the required modules.

The central control unit is based on NEXUS.

Decentralized installation: NEXUS network, optical cabling, additional DSP optional.

Basic-System Stage 300

100V Paging System
- 64 paging zones with speaker line surveillance
- 64 additional paging zones without speaker line surveillance
- Simultaneous signals
  - 2 paging signals in a system with speaker and line surveillance
  - 128 signals without speaker line surveillance
- Amplifier surveillance
- Amplifier redundancy
- Speaker line surveillance:
  - Individual speaker surveillance
  - Software-addressable speakers

Show relay
- Control of show relay audio
- Signal selection on local speaker units
- Volume control on local speaker units

LED cue lights
- Attention cue
- Acknowledgement
- Optional system surveillance of cue lights
- Status indication on the stage management console

Numeric characters
- Keypad (10 keys/special keys)
- Switching
- Setting values
- Up/down

Control applications
- Logical links

Type 1 keys
- Text labeling
- Backlight
- Two key sizes
- Light bulb
- Optional LED keys
- Key backlight dimmed
- Activated bright

Type 2 keys
- 3-color LEDs
- Available colors: RED, YELLOW, GREEN
- Key backlight dimmed
- Status indication
  - Color change
  - Flashing (slow/fast)

Type 3 keys
- Backlight LCD
- 3-color LEDs
- Labeling via software (text/graphics)
- Available colors: RED, YELLOW, GREEN
- Key backlight function: dim
- Status indication
  - Color change
  - Flashing (slow/fast)
  - Text/graphics changes

Show Control
- 100V paging
- Cue lights
- Numeric characters
- Control application

NEXUS Digital Routing System
Stage Management Systems

Central Control Unit

The stage management console consists of a sturdy, tailor-made steel housing. The console’s modular structure allows for a choice of various types of materials, colors and modules. Please find below some of the available system features:

Centralized Power-On
The stage management console can be switched on and off using a key-protected switch to avoid unauthorized operation.

Motorized Height Adjustment
Some console versions are available with a motorized height adjustment system. This custom-built motorized mechanics allow for extremely silent height adjustments.

Console Lightning
Again, there are several options: fixed console lighting or pluggable gooseneck lights. The brightness can be adjusted with a dimmer.

Roll Shutter
A (motorized) shutter can be installed to protect the control surface.

Additional Options
The following hardware components are also available:

- Table top for stage manager script (score)
  The dimensions can be user specified
- Space for 19” devices
- Lockable drawers for various items
- System connectors allowing the console to be used in various locations
- Wheels can be mounted for easy transportation.
**Intercom & Subscriber Panels**

**Intercom- und Talkback System**  
The intercom and talkback system is first and foremost intended to allow the stage manager to communicate with the following disciplines:

- Conductor and musical coaches
- Lighting designer and lighting crew, follow spot operators
director and stage management assistants
- Stage crew and fly roof operators
- Props
- Sound crew
- Costume and make-up
and more....

**ORATIS Intercom Solution**  
Oratis is an intercom system quite unlike any other. Based on cutting-edge technology and future-proof, oratis provides the utmost flexibility and DELEC’s almost legendary reliability.

oratis can be used as a compact intercom system (eight ports minimum) to large-scale installations with over 4,000 ports. The system evolves around the distributed DSP intelligence concept. This ensures short response times, even in large-scale systems and makes the system almost immune to failures. Oratis is a comprehensive digital summing audio matrix.
**Stage 100 Module Description**

The following is an example of the modules that can be installed. (refer to the illustration on the left page)

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### Monitor Screen System

LCD screens provide video monitoring from e.g. the conductor camera and the action on stage, of which an optional additional infra red camera allows to follow the status of set change during a black-out.

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### Stage Camera Control

The 3rd party camera remote control unit allows for individual camera control from the stage management console.

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### Intercom and Talkback System

The intercom and talkback system is first and foremost intended to allow the stage manager to communicate with the following disciplines:

- Conductor and musical coaches
- Lighting designer and lighting crew, follow spot operators
- Director and stage management assistants
- Stage crew and fly roof operators
- Props
- Sound crew
- Costume and make-up
- and more.....

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### Clock/Stopwatch Module

Installation module for clocks, comprising:

- Real-time display
- Stopwatch
- Optional countdown

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### Show Relay Audio

Status monitoring – addressable loudspeakers, with or without speaker line surveillance.

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### Control and Monitor-Module/
Show Relay

Control and distribution of the show relay audio to dressing rooms, back stage areas and foyers.

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### Telephone

Telephone with ring tone mute comprising a light indication for when ringer is switched off.

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### Stage 100 Cue Light Module

Type 1 keys

- Text labeling
- Backlit
- Two key sizes
- Light bulb
- Optional LED keys
- Key backlight dimmed
- Activated bright

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### Centralized Power-On

The stage management console can be switched on and off using a key-protected switch in order to avoid unauthorized operation.
### Stage 300 Module Description

The following is an example of the modules that can be installed. (refer to the illustration on the left page)

<table>
<thead>
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<th>Module Description</th>
</tr>
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<td><strong>5 Auxiliary Module</strong></td>
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<td>Connection panel for CD, DAT and MD players and other rehearsal play-out sources. This section is chiefly used during rehearsals, at times when there is no sound engineer available.</td>
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<td><strong>2 Show Relay</strong></td>
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<td><strong>Paging and Monitoring System</strong></td>
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<td><strong>9 STAGE 300</strong></td>
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<td><strong>Stage 300 Cue Lights Module</strong></td>
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<td>LCD keys for the transmission and confirmation to and from individual or matrix linked cue lights. The 3 LCD key colors display the ‘attention’, the acknowledge signal to attention and the ‘go’ status. A parallel output to create either a daisy chained or star configured cue light circuitry is optional available.</td>
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<td><strong>8 Clock/Stopwatch Module</strong></td>
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<td>Installation module for clocks, comprising:</td>
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</table>
2 Control and Monitoring Module / Show Relay Audio

In order to provide theatre staff the show relay audio and share the on stage action, the stage managers need to be in control of the distribution of the show relay audio to dressing rooms, back stage areas and foyers required. Signal selection and volume control are available on the local speaker units.

3 Monitor Screen System

The LCD screens in the stage management console provide video monitoring from various locations, such as the conductor’s podium in the orchestra pit and the stage. Optional additional infra red camera allows to follow the status of set change during a black-out.

5 Auxiliary Module

Connection panel for CD, DAT and MD players and other rehearsal play-out sources. This section is chiefly used during rehearsals, at times when there is no sound engineer available.
7 Stage 100 Cue Light Module

- Type 1 keys
- Text labeling
- Backlit
- Two key sizes
- Light bulb
- Optional LED keys
- Key backlight dimmed
- Activated bright

11 Stage 300 Cue Lights Module

3 color LCD keys for the control of cue lights. The central cue lights control panel switches the general purpose inputs and outputs. There are several customized cue light unit versions available to reflect the user’s requirements, with or without a cue acknowledgment key. A parallel output to create either a daisy chained or star configured cue light circuitry is optional available.

Cue Lights and Performance Signs Examples

An example of cue lights and performance signs:
- Single LED cue light, fixed installation or mounted to a wall bracket or stand
- Mobile cue light providing a “connected” indication
- Fixed installed single cue lights with acknowledgement key
- Mobile single cue lights with acknowledgement key
- SILENCE performance sign
- ENTRANCE performance sign for latecomers
- CALL DOCTOR performance sign
Stage Management Systems

Stage 100 Paging and Monitoring

12 Stage 100 Paging and Show Relay System
System surveillance - addressable loudspeakers

12 Stage 100 Paging and Show Relay System
Standard configuration, including announcement priority override (without system surveillance)
PAGING SHOW RELAY SYSTEM STAGE 300
System surveillance - addressable loudspeakers

STAGE 300 PAGING AND MONITORING

PAGING AND MONITORING SYSTEM
STAGE 300
Standard configuration, including announcement priority override (without system surveillance)
Stage Management Systems

References (Excerpt)

Auditorium di Roma (I)
Bayerische Staatsoper Munich (G)
Den Norske Opera Oslo, Norway (N)
Deutsche Oper Berlin (G)
E.T.A. Hoffmann Theater Bamberg (G)
Forum am Schlosspark Ludwigsburg (G)
Grand Théatre de la Ville Luxembourg (L)
Grillo Theater Essen (G)
Muziektheater Amsterdam (NL)
Hochschule für Musik und Theater Leipzig (G)
Kammerspiele Munich (G)
Kongress- und Kulturzentrum Brandenburg (G)
Kurtheater Bad Elster (G)
Mainfranken Theater Würzburg (G)
Musikhochschule Stuttgart (G)
Opernhaus Zürich (CH)
Raimund Theater Wien (A)
Schauspielhaus Bochum (G)
Staatstheater Mainz (G)
Konzerttheater Bamberg (G)
Theater Stralsund (G)
Theater Braunschweig Kleines Haus (G)
Bühnen der Stadt Gera (G)
Theater Brandenburg (G)
Volksoper Wien, (A)
Anhaltisches Theater, Dessau (G)
Stadthalle Greifswald (G)
Stadttheater Aschaffenburg (G)

Schlosstheater Rheinsberg (G)
Wiener Staatsoper (A)
Staatstheater Darmstadt (G)
Staatstheater Wiesbaden (G)
Stadththeater Bremerhaven (G)
Stadththeater Konstanz (G)
Stadththeater Regensburg (G)
Gärtnerplatztheater Munich (G)
Kapuzinertheater Luxembourg (L)
Stadthalle Tuttlingen (G)
Theater an der Wien (A)
Theater der Bundesstadt Bonn (G)
Theater der Stadt Heidelberg (G)
Theater Rudolstadt (G)
Tiroler Landestheater Innsbruck (A)
Cuvellier-Theater Munich (G)
Drama Theater Baku, Aserbaidschan
Luzerner Landestheater (CH)
Staatstheater Kassel (G)
Opernhaus Kiel (G)
Burghof Lörrach (G)
Staatsoper Hannover (G)
Stadththeater Hildburghausen (G)
Theater Ingolstadt (G)
Etablissement Ronacher Wien (A)
Theater im Pfalzbau Ludwigshafen (G)
Theatre Municipal, Esch-sur-Alzette (L)
SALZBRENNER STAGETEC MEDIAGROUP -

a powerful group of three companies whose registered offices are located in Buttenheim (Germany). With departments that take care of product design, integration, and the distribution of professional audio, video and intercom technology, SALZBRENNER STAGETEC MEDIAGROUP literally has all bases covered.

With over 45 years of experience with the development and integration of digital technology, SALZBRENNER STAGETEC MEDIAGROUP is the best-placed partner for cutting-edge systems of all sizes and for any budget.

Strong Partners Worldwide For Theatre Projects

• Audio Video Mediensysteme GmbH
• Stage Tec Entwicklungsgesellschaft für professionelle Auditechnik mbH
• DELEC Audio- und Videotechnik GmbH

Worldwide Distribution

[Map showing distribution locations around the world]