

# STAGE MANAGEMENT SYSTEMS



STAGE 100 / STAGE 300

# STAGE MANAGEMENT SYSTEMS

## DIGITAL - FLEXIBLE - CUSTOMIZED

### 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.



*Benefit our expertise in design and construction of professional stage management systems. Don't hesitate to contact us for system consultancy, to ensure that all performances in your venue will be a resounding success.*

### STAGE 100

#### Summary:

Central control unit which houses following required components:



The central control unit is based on C.A.S. 100 system components.



#### 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

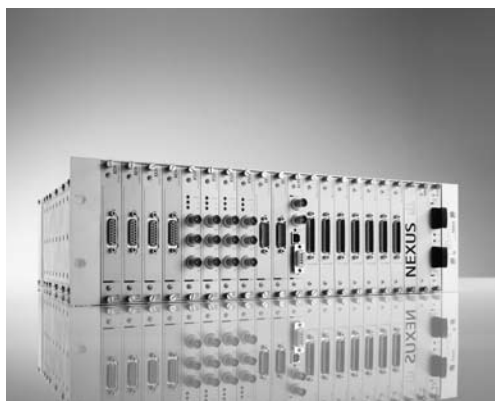
##### LED cue lights

- 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



NEXUS Digital Routing System

### 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
- Backlit
- 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

- Backlit 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

# 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.



Motorized height adjustment



System connectors

## 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 subscriber panel



ORATIS INTERCOM subscriber panel



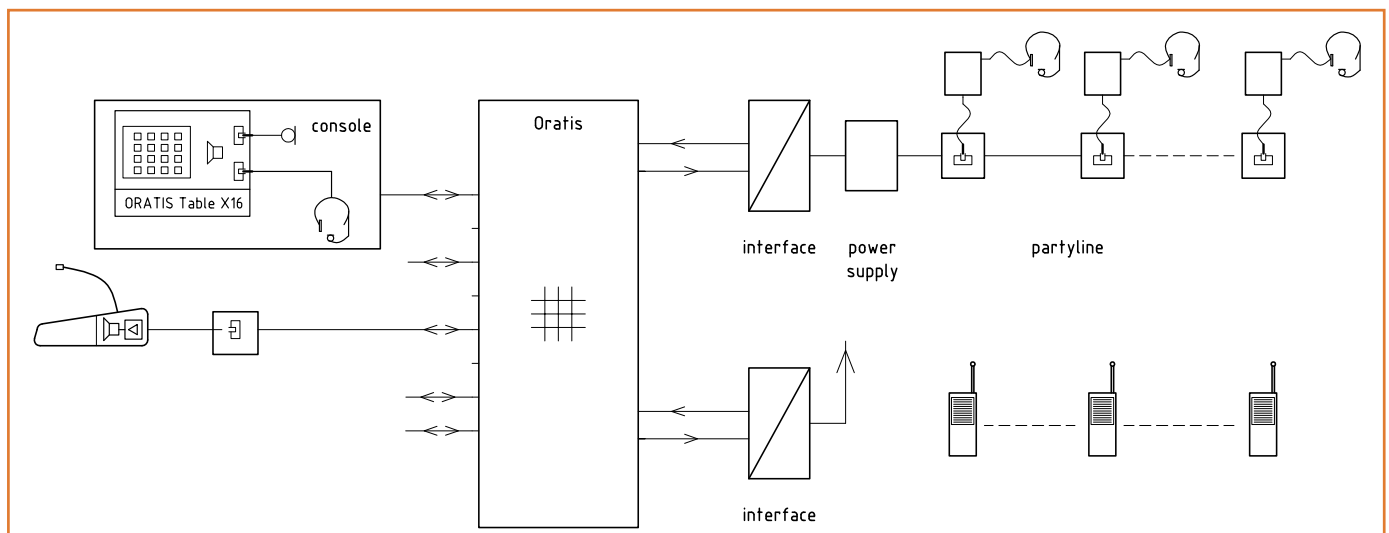
ORATIS INTERCOM Matrix

### 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 MANAGEMENT SYSTEMS

## STAGE 100 MODULE DESCRIPTION



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## STAGE 100 MODULE DESCRIPTION

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

### 6 STAGE CAMERA CONTROL

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

### 8 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.....

### 2 CONTROL AND MONITOR-MODULE/ SHOW RELAY

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

### 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

### MONITOR SCREEN SYSTEM 3

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.

### CLOCK/STOPWATCH MODULE 4

Installation module for clocks, comprising:

- Real-time display
- Stopwatch
- Optional countdown

### SHOW RELAY AUDIO 12

STAGE 100

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

### TELEPHONE 10

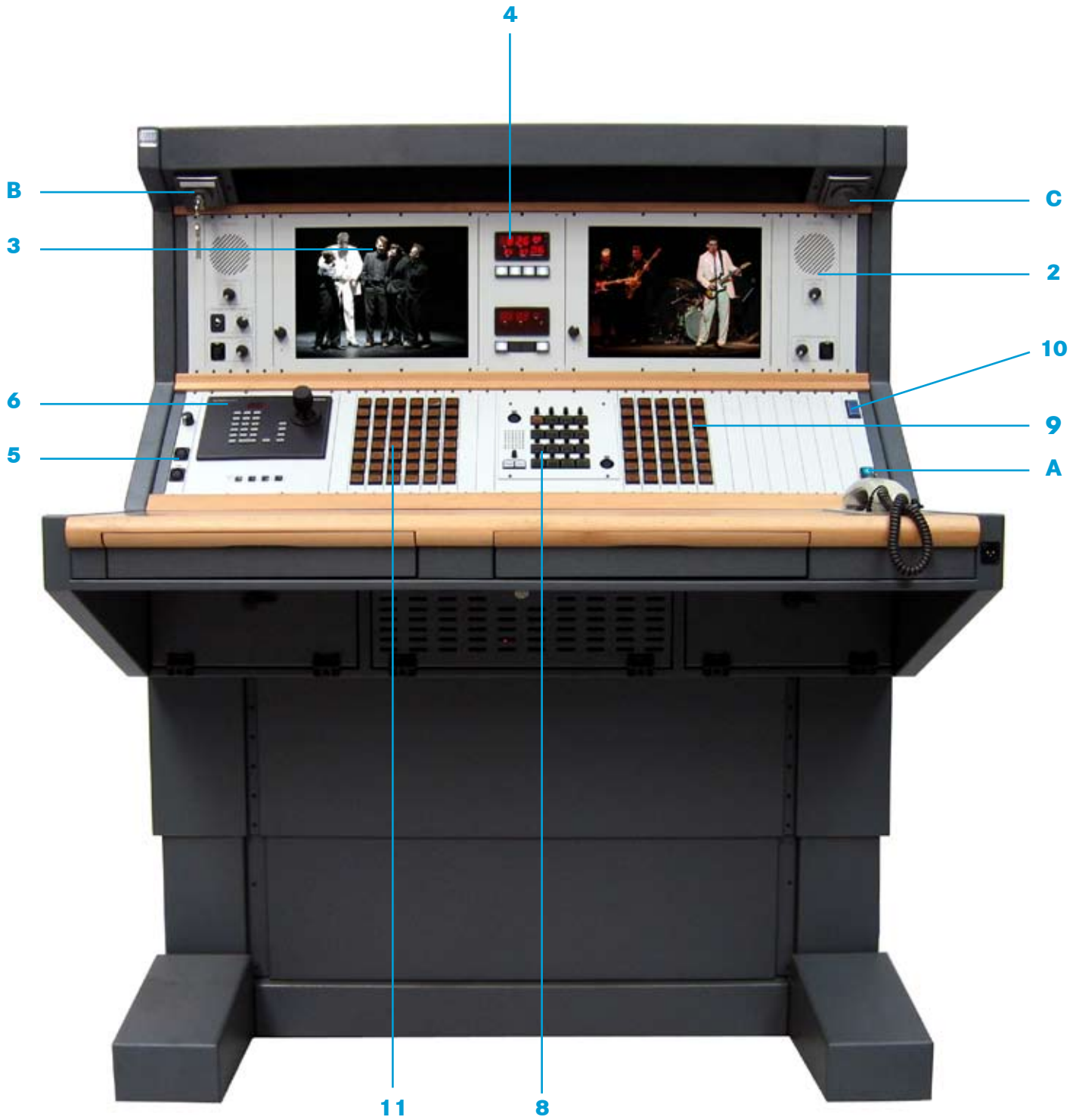
Telephone with ring tone mute comprising a light indication for when ringer is switched off.

### CENTRALIZED POWER-ON A

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

# STAGE MANAGEMENT SYSTEMS

## STAGE 300 MODULE DESCRIPTION



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## STAGE 300 MODULE DESCRIPTION

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

### **B** **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.

### **3** **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.

### **6** **STAGE CAMERA CONTROL**

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

### **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.

### **11** **STAGE 300 CUE LIGHTS MODULE**

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.

### **8** **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 and special effects team, sound crew, costume and make-up and more.....

### **CONSOLE LIGHTING C**

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

### **CONTROL AND MONITOR MODULE 2** **SHOW RELAY**

Control and distribution of the show relay audio to dressing rooms, back stage areas and foyers. Signal selection and volume control are available on the local speaker units.

### **TELEPHONE 10**

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

### **PAGING AND MONITORING SYSTEM 9**

STAGE 300

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

### **CENTRALIZED POWER-ON A**

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

### **CLOCK/STOPWATCH MODULE 4**

Installation module for clocks, comprising:

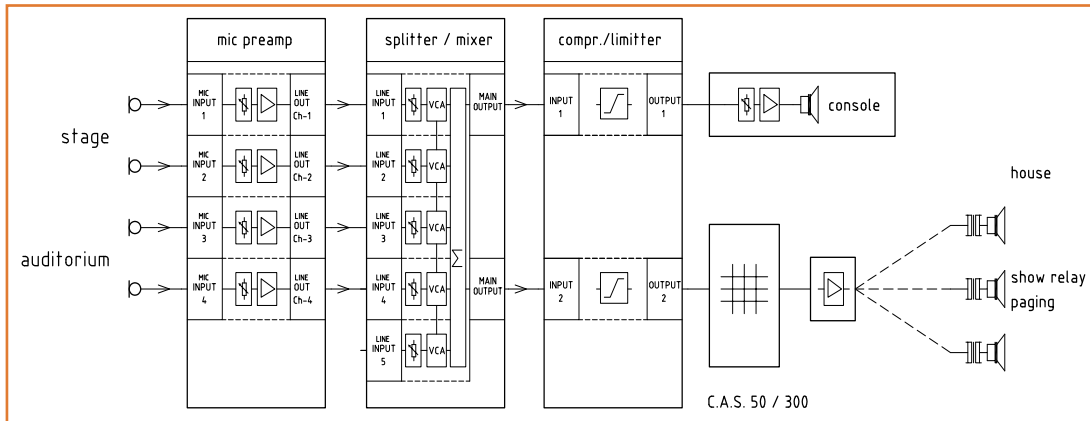
- Real-time display
- Stopwatch
- Optional countdown

# STAGE MANAGEMENT SYSTEMS

## CONSOLE MODULES

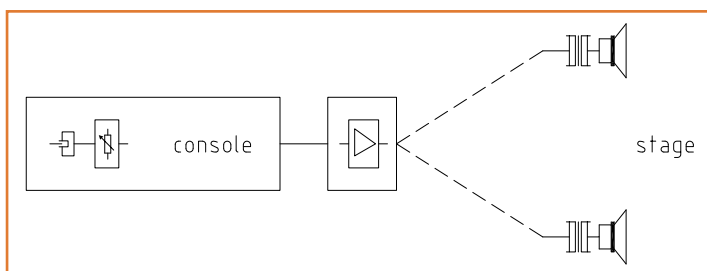
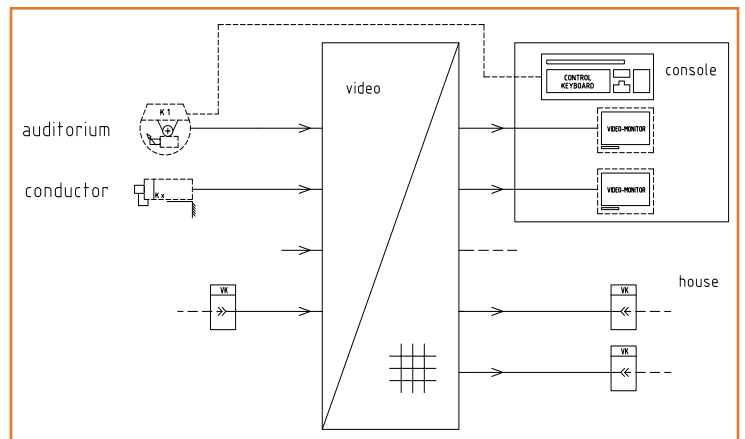
### 2 CONTROL AND MONITORING MODULE/ SHOW RELAY AUDIO

In order to provide theatre staff the show relay audio and share the on stage action, the stage managers needs 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.

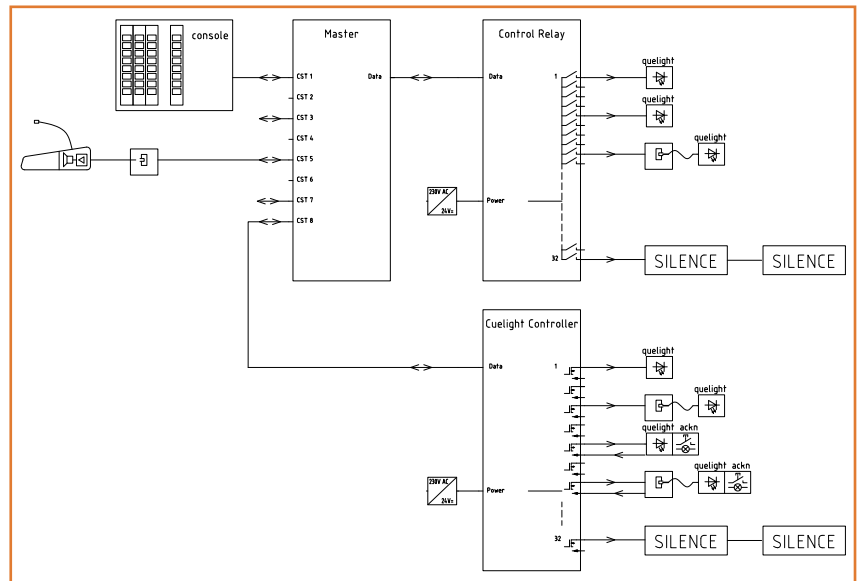



### 5 AUXILIARY MODULE

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

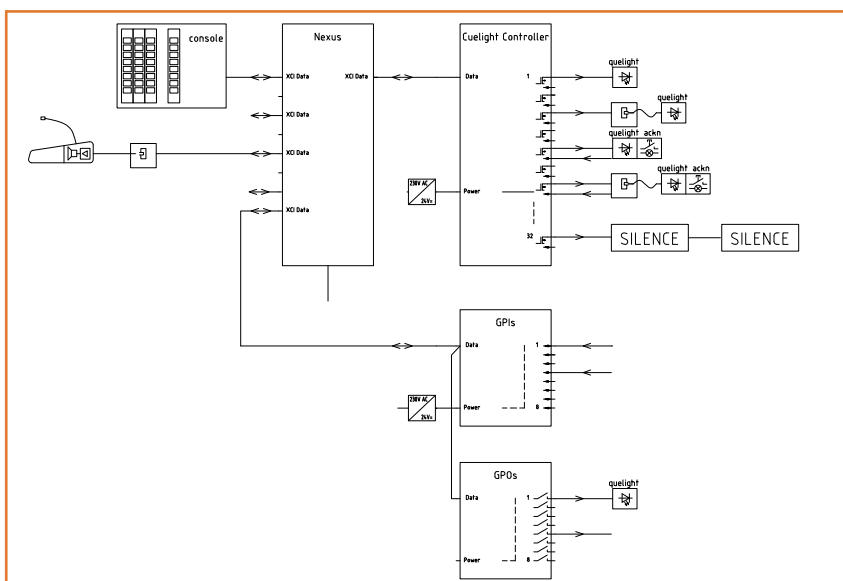




### CUE LIGHTS AND PERFORMANCE SIGNS EXAMPLES

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



## 11 STAGE 300 CUE LIGHTS MODULE

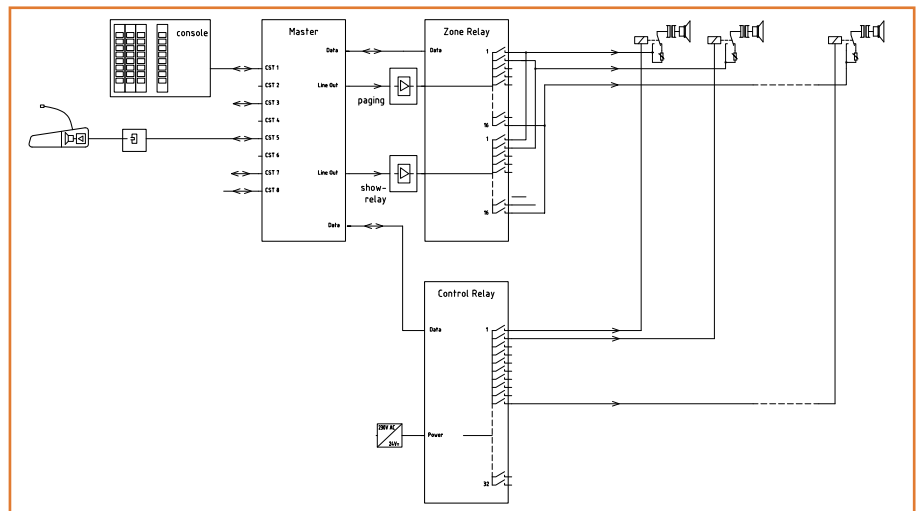
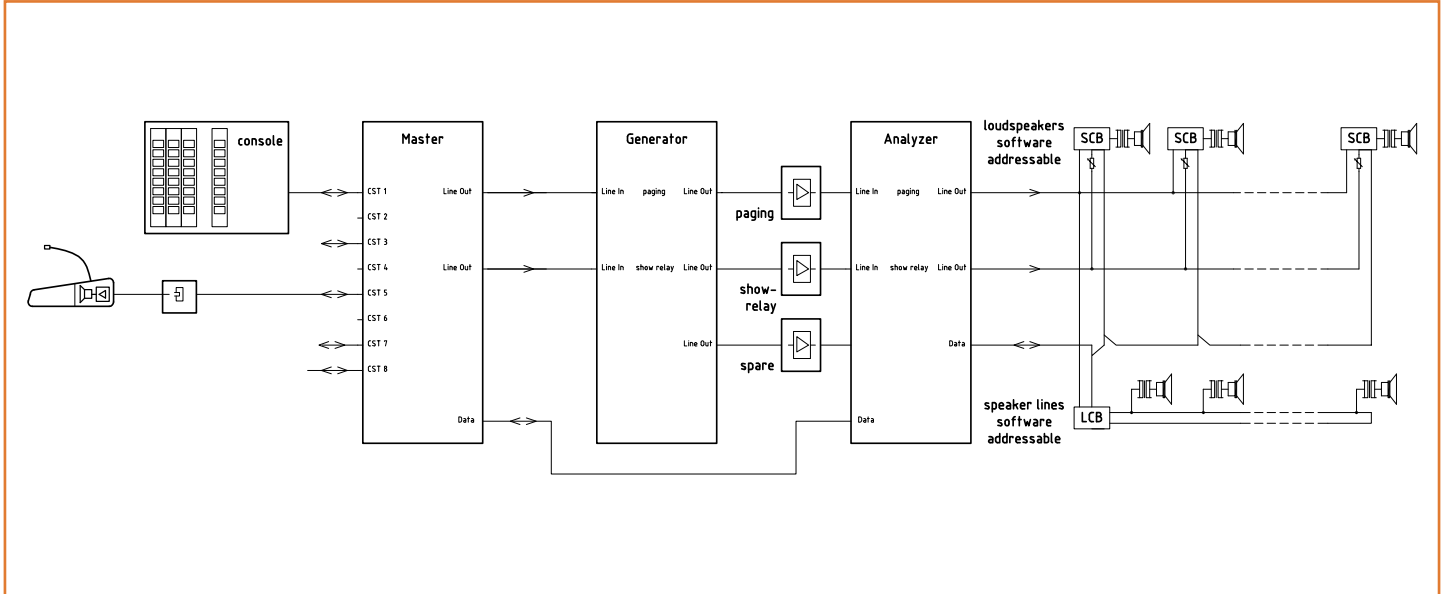
3 color LCD keys for the control of cue lights. The central cue lights control panel switches the general purpose inputs and outputs. There are several customized cue light unit versions available to reflect the user’s requirements, with or without a cue acknowledgement key. A parallel output to create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

# STAGE MANAGEMENT SYSTEMS

## STAGE 100 PAGING AND MONITORING

### 12 STAGE 100 PAGING AND SHOW RELAY SYSTEM

System surveillance - addressable loudspeakers



### 12 PAGING AND SHOW RELAY SYSTEM

#### STAGE 100

Standard configuration, including announcement priority override (without system surveillance)

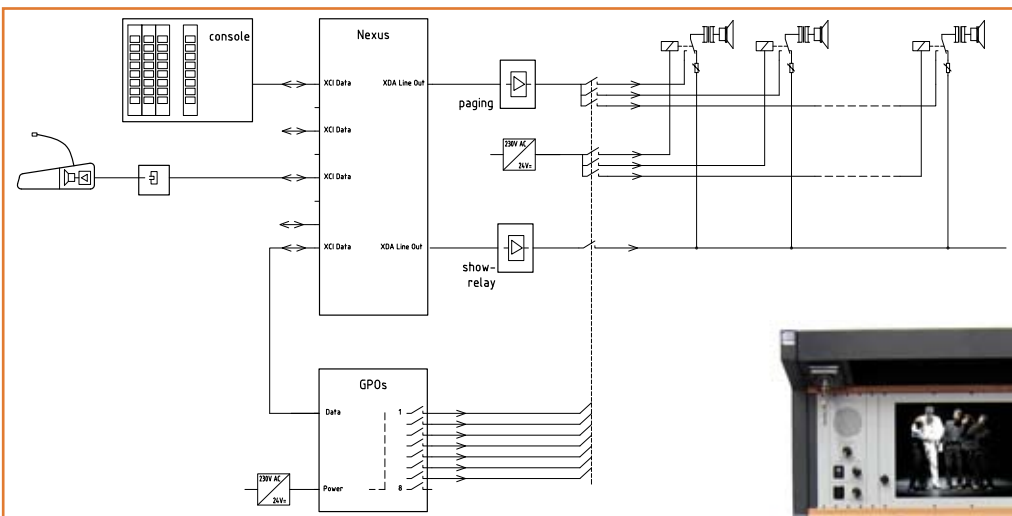
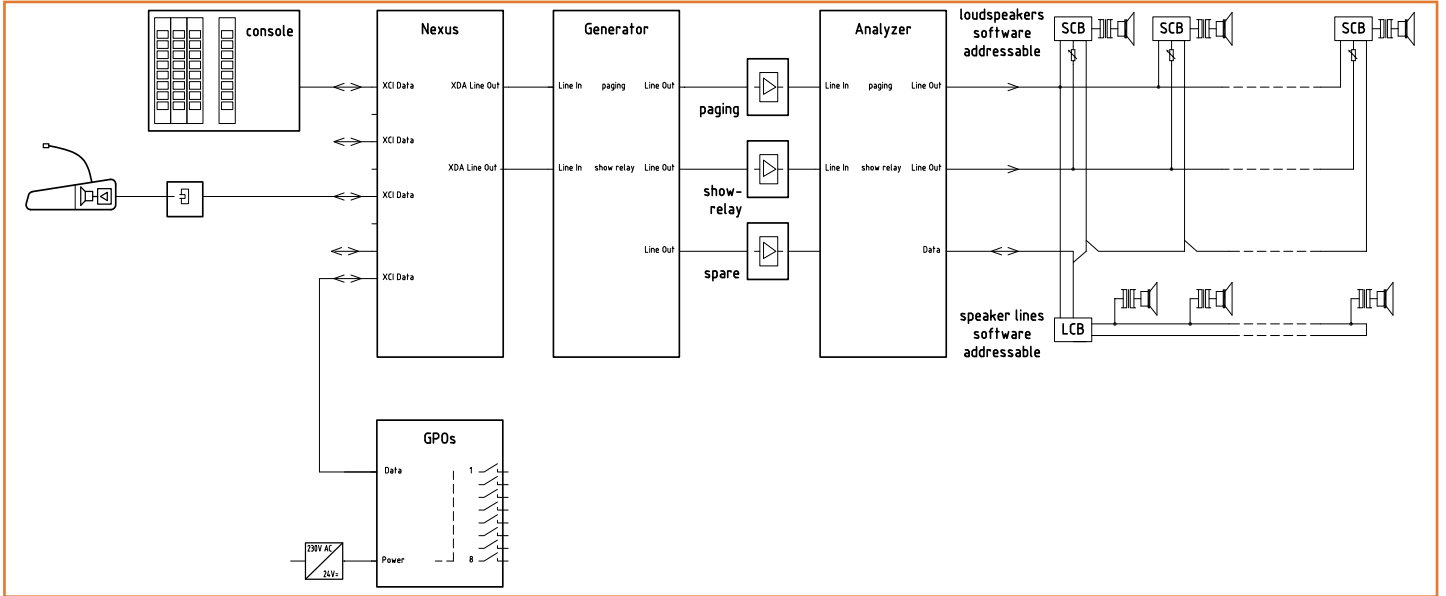


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# STAGE 300 PAGING AND MONITORING

## PAGING SHOW RELAY SYSTEM STAGE 300 9

System surveillance - addressable loudspeakers



## PAGING AND MONITORING SYSTEM 9

### 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 Théâtre 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)  
Konzerthalle 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)  
Stadttheater Bremerhaven (G)  
Stadttheater Konstanz (G)  
Stadttheater 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, Aserbajdschan  
Luzerner Landestheater (CH)  
Staatstheater Kassel (G)  
Opernhaus Kiel (G)  
Burghof Lörrach (G)  
Staatsoper Hannover (G)  
Stadttheater 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.

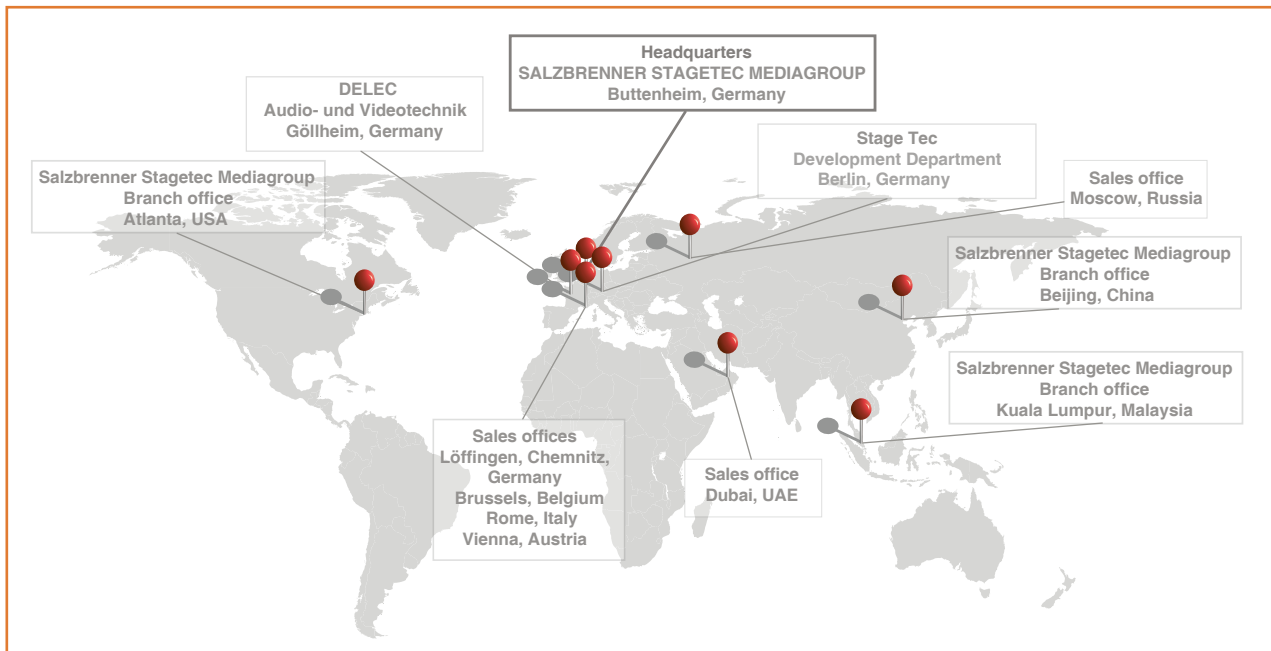
## Strong Partners Worldwide For Theatre Projects

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



Headquartes Buttenheim

## Worldwide Distribution



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