# Devio SCX 400/800
## Installation & Operation Guide

**biamp.**

## Product Description

The Devio SCX 400/800 products are conference hubs compatible with Biamp's network audio and control devices. USB audio and HID synchronization also allows the hubs to act as a conference audio peripheral when connected with Biamp Modena devices or Unified Communication (UC) systems.

With four or eight channels of Acoustic Echo Cancellation (AEC) respectively, users can choose the model that meets the number of microphones required for the room.

SCX is designed to be used primarily with Biamp's beam-forming microphones, PoE amplifiers and speakers. A system including these elements and a UC-room system, display and camera will provide a complete technology solution for a UC-enabled conference room.

## Setup and Use

The Devio SCX is designed to work out-of-box with no user configuration required. An an intuitive user interface offers features such as locate and firmware updates. The information supplied by this manual relates to physical connections and device setup.

## Biamp Launch

Biamp Launch technology offers automatic device discovery and tuning without the need for custom programming. In addition, SCX provides the user with a full performance report for the meeting space upon completion.

The Launch may be initiated from the Launch button on the Audio page of the embedded user interface or from the Launch button on the front of the device itself. Click here for more information on launching the SCX.

## Devices

The Devio SCX will discover connected devices, configure itself accordingly and supports the following:

- TCM-1, TCM-1A, TCM-1EX
- TCM-X, TCM-XA, TCM-XEX
- TTM-X, TTM-XEX
- EX-UBT
- AMP-450P, AMP-450BP
- HD-1

# Devio SCX Installation

The SCX may be installed in almost any location that is convenient for the room design, requirements, etc. This includes installation on a wall behind a typical conference room display or under a table. Be sure to allow for adequate airflow on the ventilation grilles.

Install away from heat sources such as vents, radiators, heat registers and stoves. Also avoid installing near water or steam. Do not exceed the maximum ambient operating temperature of 32-104° F (0-40° C).

## Optional Wall-Mount Bracket

A wall-mount bracket comes installed on the device and may easily be removed.

The following hardware is included for mounting the SCX with the attached bracket:

- Screws (x4)
- Drywall Anchors (x4)



**Figure 1.** - Devio SCX with Bracket

Remove the four screws that secure the mounting bracket to the SCX as shown in Figure 2 if required.
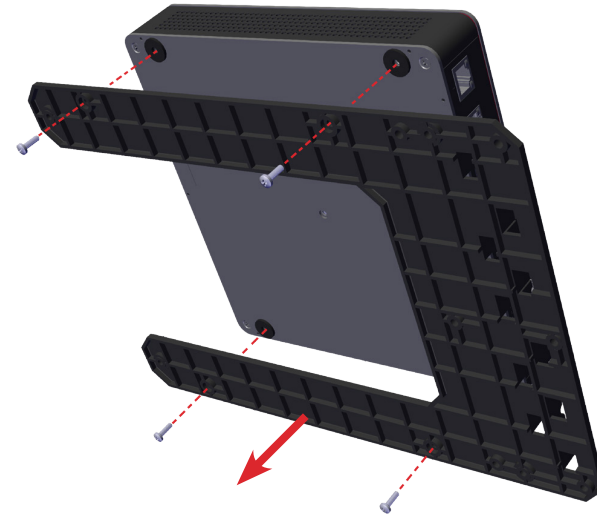


**Figure 2.** - Bracket Removal

1. Determine the location where the Devio SCX is to be installed.

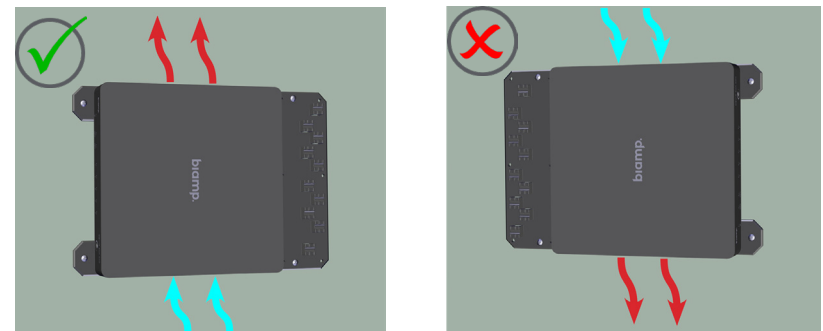2. Position the SCX for optimal airflow as shown in Figure 3.



**Figure 3.** - Proper Airflow

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**Installation and Operation Guide** Devio SCX

3. Install SCX with attached bracket at the desired location. Shown in Figure 4.

4. Use the Cable Management Tray to secure the power supply and cables as required. Shown in Figure 4.

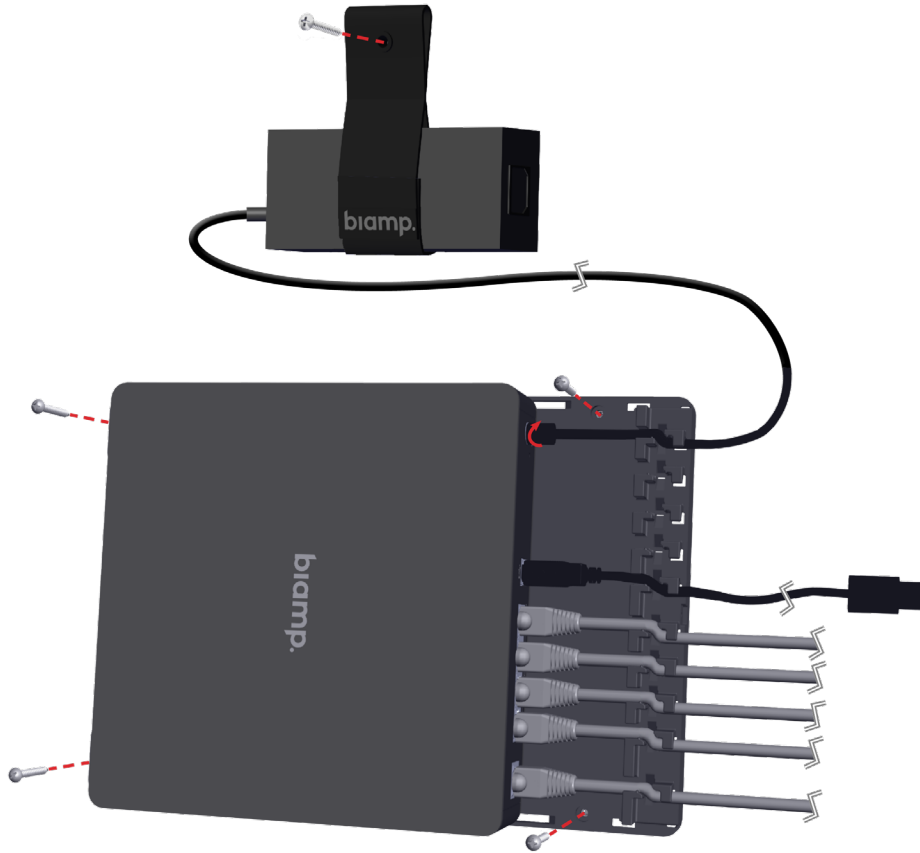5. Use strap (included) to secure to a surface. Shown in Figure 4.

6. Install the Cable Management tray cover onto the device as shown in Figure 5.



**Figure 5.** - Devio SCX Cable Management Tray Cover

7. Attach the screw to secure the cover as shown in Figure 6.



**Figure 4.** - Devio SCX with Cable Management Tray



**Figure 6.** - Devio SCX Wall Installation with Cable Management Tray

# Devio SCX Installation Cont.

Biamp Launch is an intuitive easy-to-use feature that automatically identifies devices and adjusts audio settings and parameters based on measurements taken during the Launch process.

Biamp Launch may be initiated from the Launch button on the Audio page of the embedded user interface or from the Launch button on the front of the device itself. See the following steps to Launch the SCX:

1. Connect all devices making sure that the speaker(s) and microphone(s) are at least three feet apart.

   - To Launch from the SCX device, press the Launch button at the front panel. The speakers will request for the button to be pressed again. A recorded announcement (English language) advises the user that the automated process is about to begin and when the process is finished.

   - The device IP address is required to access and Launch the Devio SCX from the embedded web interface. Click here to download the Biamp Discovery tool and access the IP address.

     Choose the Target SPL dB and UC Vendor from the drop down and click Launch:
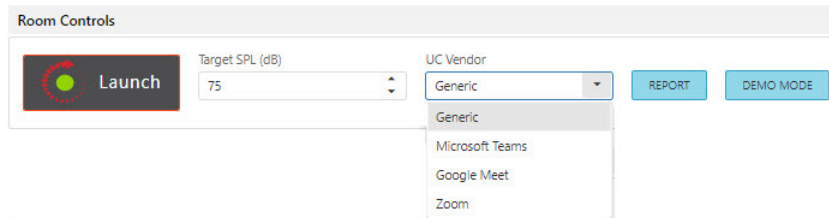


**Figure 7.** - Launch

2. A recorded announcement (English language) advises the user that the automated process is about to begin and the Launch button indicates that the Launch is in progress:
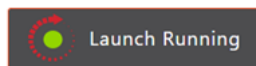


**Figure 8.** - Launch Running

3. During the Launch process the speakers will emit numerous chirps/sweeps to indicate the SCX is measuring the following:

   - Room acoustics
   - Distance between mics and speakers
   - Speaker frequency response
   - Audio level (SPL) for listeners in the room

4. Once the launch process is successful, the SCX will use the measurements to adjust various system parameters, including the output volume level to achieve the desired target SPL. The parameters adjusted are listed below:

   - Output (speaker) level control - to achieve target SPL
   - Output (speaker) limiter - to prevent exceeding max SPL
   - Parlé processing block parameters
   - Room acoustics (fair/good/great)
   - NLP level
   - Noise reduction

5. If Biamp Launch fails, the block parameter adjustments may not be applied. In either case another recorded announcement will be played at the end of the process providing status information:
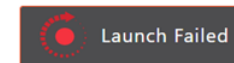


**Figure 9.** - Launch Failed

6. Upon successful launch, a report card is generated that gives information about the room acoustics and adjustments made during the Launch. Click the Report button to review the report card:
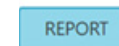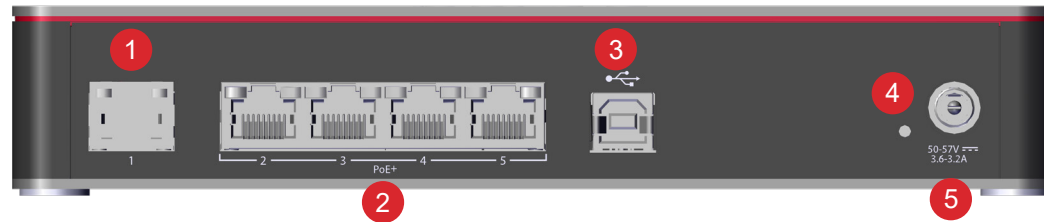


**Figure 10.** - Launch Report

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# Devio SCX Back Panel



## Connections

The Devio SCX enclosure is a combination of steel and molded plastic components. It is designed to be installed on a wall behind a typical conference room display or placed on a flat surface like a table or credenza with the included mounting bracket.

### 1.  Ethernet

(1) RJ-45 network port

### 2.  Ethernet (PoE+)

(4) RJ-45 ports which  provide PoE+ to power attached peripheral devices.

### 3.  USB

The Devio SCX includes a single USB type-B connector which provides connection to the UC room system.

### 4.  Reset

Recessed push-button to reset back to factory defaults.

### 5.  Power

The power connector uses a 2.5 mm barrel-type. The threaded lock prevents the power cable from getting pulled out and prevents the power supply from being plugged into other, lower-voltage devices which also use a 2.5 mm barrel.

### RJ45 AVB Ports (PoE+/non-PoE+) Status

| Status | LED Indicator |
|---|---|
| Ethernet link is down | Both  LEDs Off |
| Ethernet link is active | Right LED Green Solid |
| PoE is delivering power | Right LED Orange Solid |
| Data activity | Left LED Green Flashing |
| When no data activity (with link up) | Left LED Green Solid |

# Devio SCX Front Panel

**Front Panel LEDs**

There are nine multi-color LEDs on the front panel of the Devio SCX which give various information to a user:



## 1. Power Indicator

| Status | LED Indicator |
|---|---|
| No power | Off |
| Device is powered | Green Solid |

## 2. Device Status

| Status | LED Indicator |
|---|---|
| No power | Off |
| Device is booting | Yellow Solid |
| Device is fully booted/ready | Green Solid |
| Device is in Locate mode (triggered from the software) | Green Flashing |

## 3. Alarm Status

| Status | LED Indicator |
|---|---|
| No alarm condition Present | Off |
| Unit has one or more major alarms present | Red Solid |
| Unit has one or more minor alarm conditions present* | Yellow Solid |

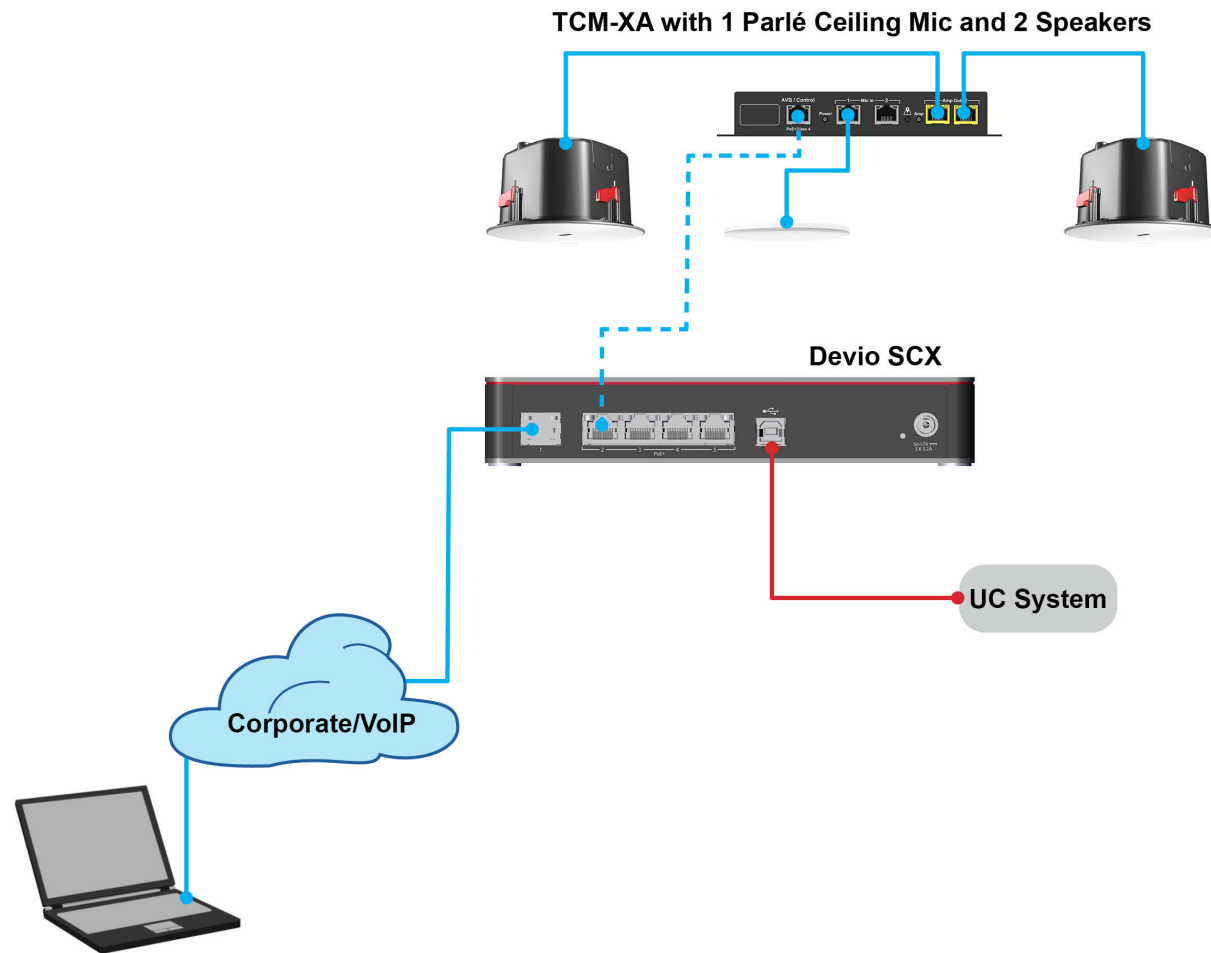*Only if no major alarms present. Major alarms override minor.

## 4. RJ45 Port Status

| Status | LED Indicator |
|---|---|
| Ethernet link is down | Off |
| Ethernet link is active | Green Solid |
| Device is in Locate mode (triggered from the software) | Green Flashing |

## 5. Launch

| LED Indicator | Status |
|---|---|
| | Launch Required (Green Pulsing) |
| | Launch in Progress (Red/Green Pulsing) |
| | Launch Succeeded (Green Solid) |
| | Launch Failed (Red Solid) |

# Devio SCX System Deployment Examples

**TCM-XA with 1 Parlé Ceiling Mic and 2 Speakers**

**Devio SCX**

**UC System**

**Corporate/VoIP**

## Cable Type

| | |
|---|---|
| **Cat-5e** | ———— |
| **USB** | ———— |
| **AVB Ports** | - - - - |

**Devio SCX 400 Medium Meeting Room with One Ceiling Mic**

# Devio SCX System Deployment Examples Cont.

**TCM-XA with 2 Parlé Ceiling Mics and 4 Speakers**

**Devio SCX**

**UC System**

**Corporate/VoIP**
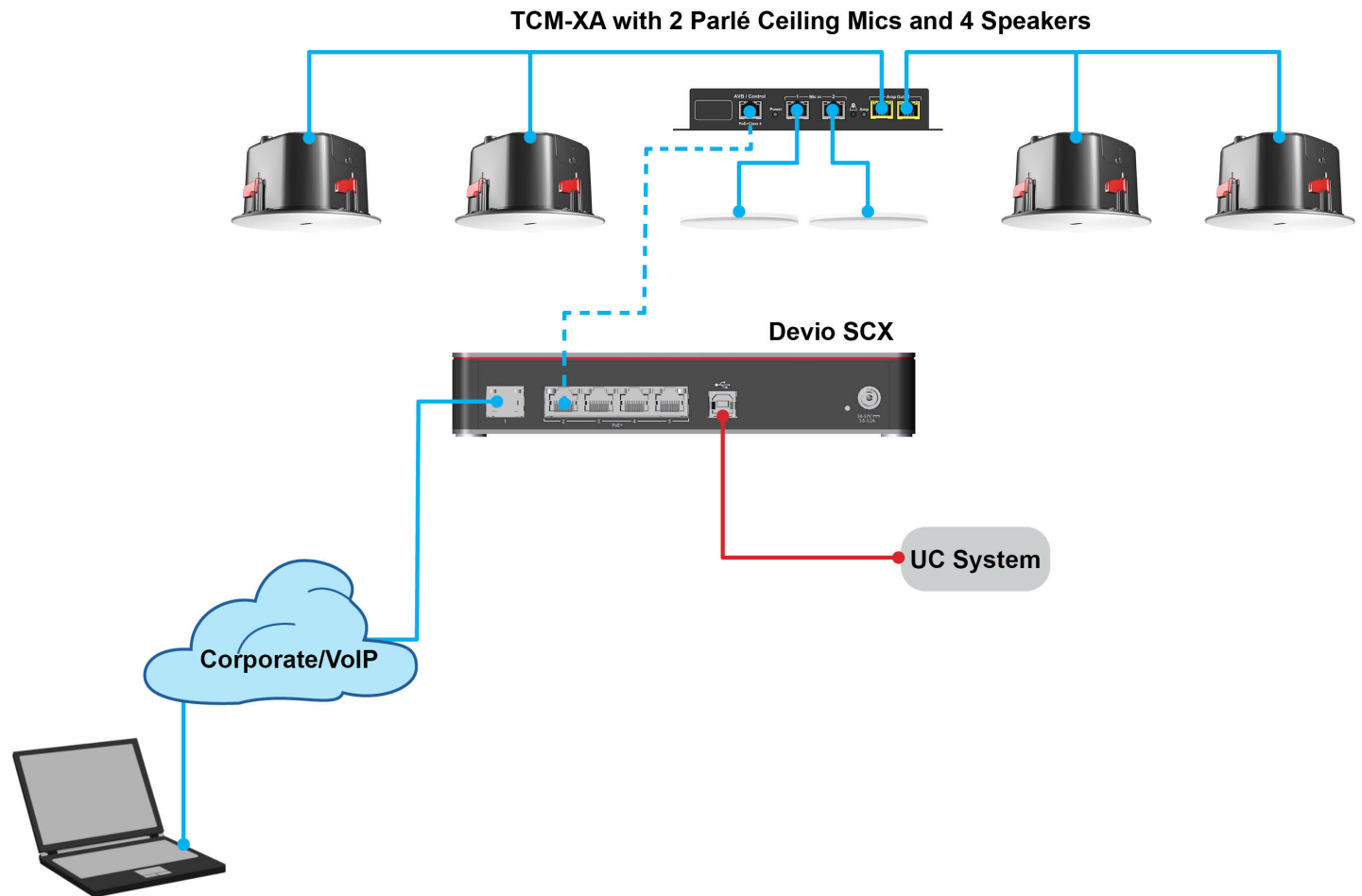
## Cable Type

| Cat-5e | —— |
|--------|-----|
| USB | —— |
| AVB Ports | - - - |

**Devio SCX 400 Large Meeting Room with Two Ceiling Mics**

# Devio SCX System Deployment Examples Cont.

**AMP-450BP with 2 Speakers**

**Devio SCX**

**UC System**

**Corporate/VoIP**

**Parlé TTM-X**

**Parlé Tabletop Mic**

## Cable Type

| | |
|---|---|
| Cat-5e | —— |
| USB | —— |
| AVB Ports | - - - |
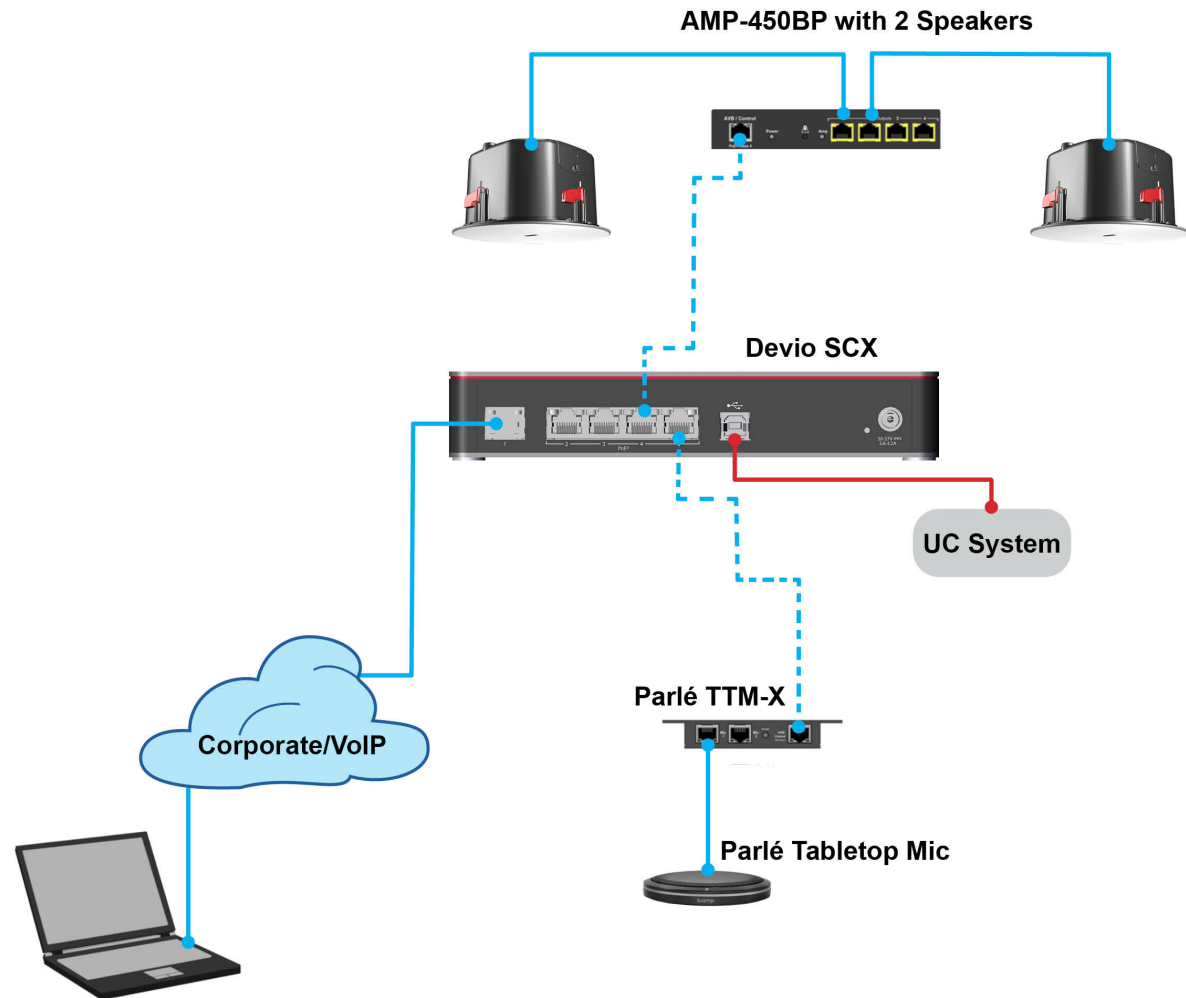
**Devio SCX 400 Medium Meeting Room with One Table-Top Mic**

# Devio SCX System Deployment Examples Cont.

**AMP-450BP with 4 Speakers**

**Devio SCX**

**UC System**

**Corporate/VoIP**

**Parlé Tabletop Mics**

## Cable Type

| | |
|---|---|
| **Cat-5e** | —— |
| **USB** | —— |
| **AVB Ports** | - - - - |
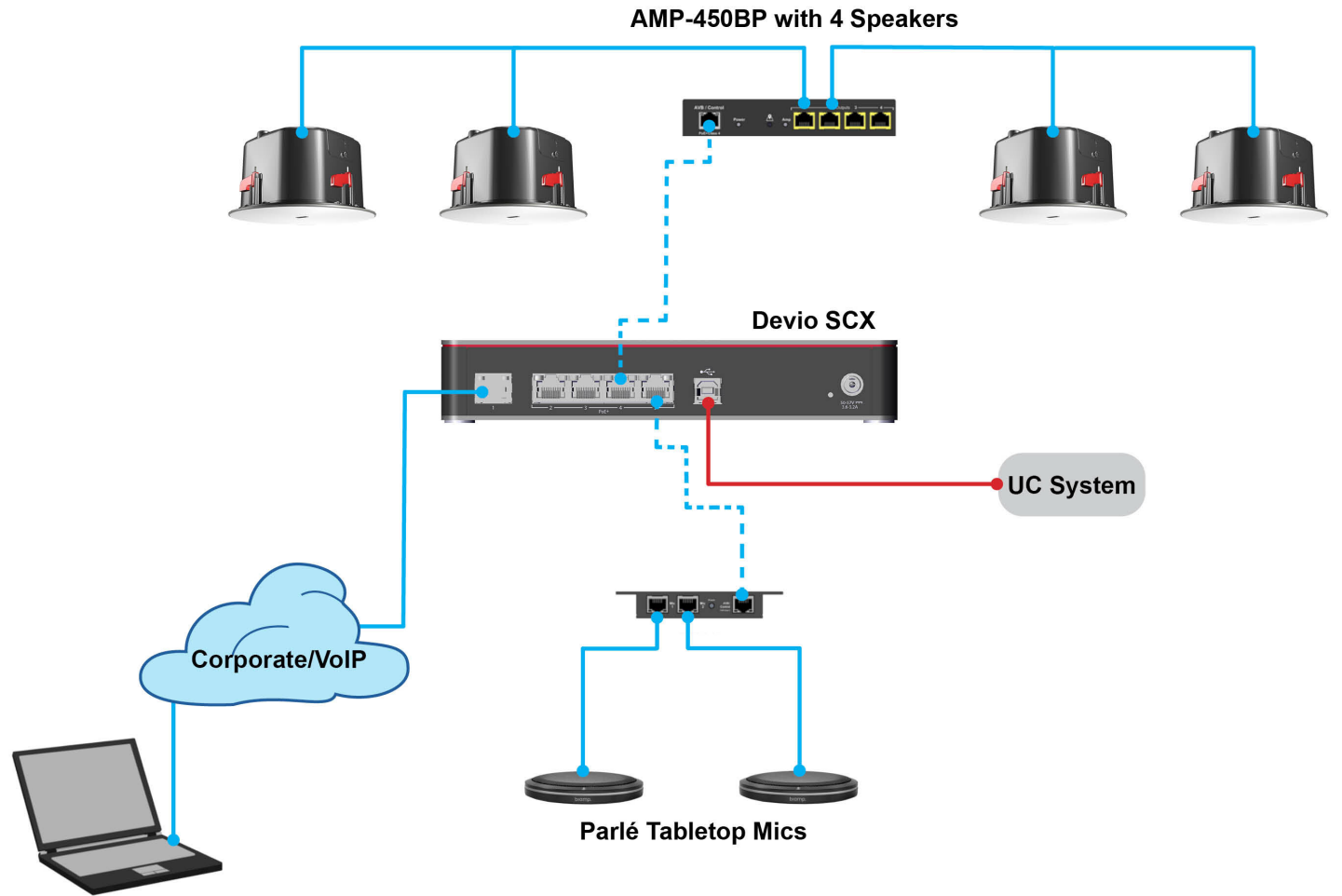
**Devio SCX 400 Large Meeting Room with Two Table-Top Mics**

# Devio SCX System Deployment Examples Cont.

TCM-XA with 2 Parlé Ceiling Mics and 2 Speakers

TCM-XA with 2 Parlé Ceiling Mics and 2 Speakers

EX-UBT

Devio SCX 800

HD-1

UC System

TC-5

TCM-XA with 2 Parlé Ceiling Mics and 2 Speakers

Corporate/VoIP

TCM-XA with 2 Parlé Ceiling Mics and 2 Speakers

## Cable Type

| Cable Type | |
|---|---|
| Cat-5e | —— |
| USB | —— |
| AVB Ports | - - - |
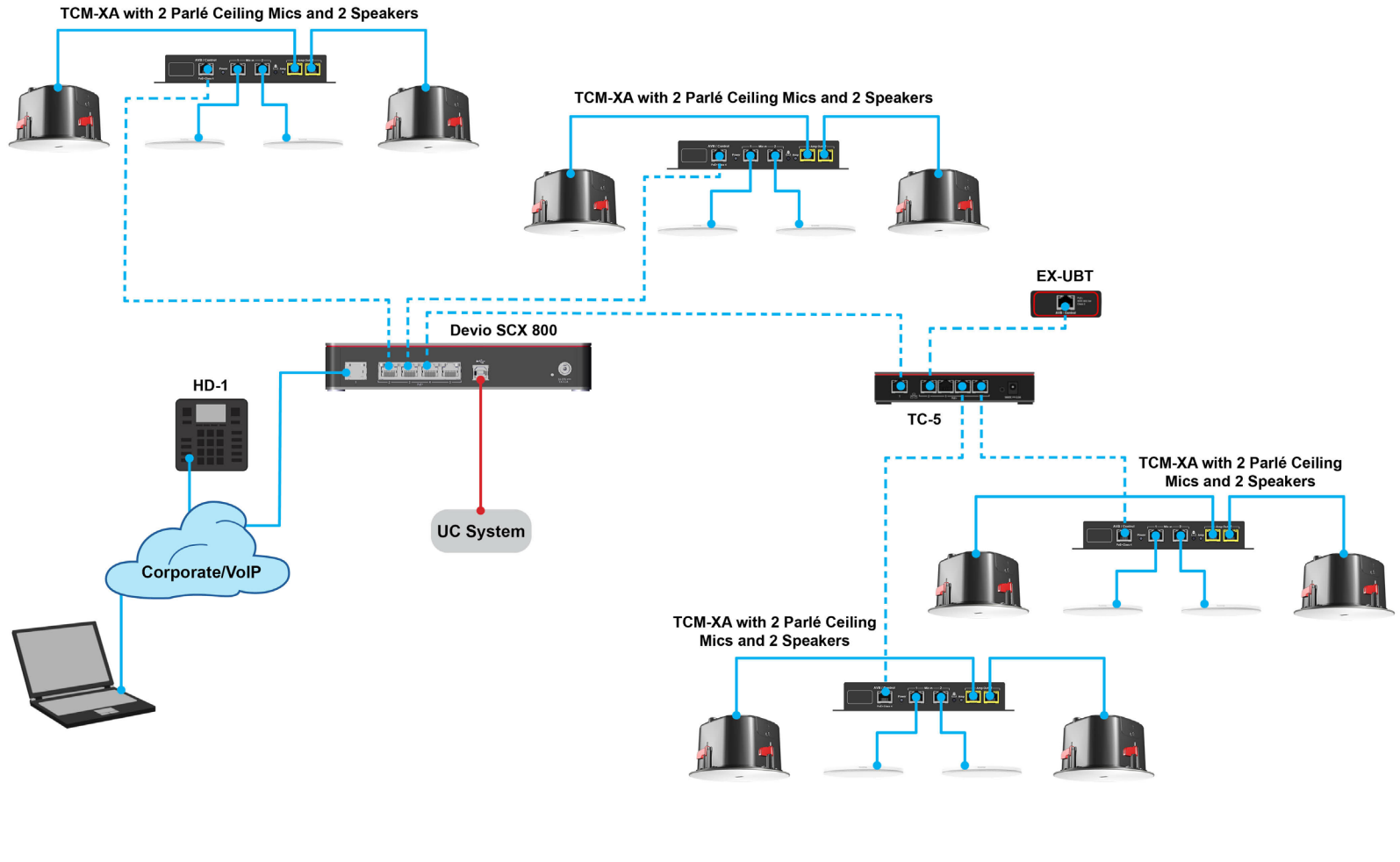
**Devio SCX 800 Large Meeting Room with Eight Ceiling Mics**

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## CONTACT US

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