

# Revolabs Fusion™ Wireless Microphone System

## Set-Up Guide



**Microphones must be fully charged and paired  
to the Fusion Base Station prior to first use.**

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## Warranty

Revolabs, Inc. warrants this product to be free of manufacturing defects. Repair or replacement of any defective part or unit (at the discretion of the Seller) will be free of charge for the period of one year.

Any attempt by the user to alter the equipment, or equipment damaged by negligence, accident, or Acts of God voids this warranty.

The Seller shall not be liable for any consequential damage resulting from the malfunction of this product. Should the user experience unsatisfactory performance from this equipment, contact the Seller to obtain instructions for return, or replacement, as deemed necessary.

This warranty is not transferable by the original end user.

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### Part Numbers Covered in This Document:

- 8-Microphone System**  
01-8FUSION(EU)-NM-01-01
- 4-Microphone System**  
01-4FUSION(EU)-NM-01-01

## Specifications

### Dimensions, (L, W, H) and Weight:

Fusion Base Station	16.45 x 8.46 x 1.7", 8.7 lbs	41.8 x 21.5 x 8.7 cm, 3.95 kg
Charger Base	8.3 x 4.3 x 1.0", 1.0 lb	21.2 x 10.9 x 2.56 cm, 0.45 kg
Wireless Microphones	Wearable: 0.9 x 0.8 x 2.6", 0.05 lb	2.3 x 2.0 x 6.6 cm, 0.02 kg
	Tabletop: 1.5 x 0.8 x 3.3", 0.05 lb	3.8 x 2.0 x 8.4 cm, 0.02 kg
	XLR Adapter: 0.9 x 0.8 x 4.0, 0.05 lb	2.3 x 2.9 x 10.2 cm, 0.02 kg

### Radio Frequency:

01-8FUSION-NM-01-01	1.92 to 1.93 GHz (UPCS North America)
01-4FUSION-NM-01-01	1.92 to 1.93 GHz (UPCS North America)
01-8FUSIONEU-NM-01-01	1.88 to 1.90 GHz (DECT EU)
01-4FUSIONEU-NM-01-01	1.88 to 1.90 GHz (DECT EU)

### Connectors:

Fusion Base Station	IR Remote Serial DB9
	CD Programming Serial DB9 - for Revolabs use only
	Audio Control RJ45 – for Revolabs use only
	Telephone Line-In RJ11
	Telephone Set-In RJ11
	Network RJ45 – for Revolabs use only
	Conference Out XLR male
	Aux In RCA Plug
	Aux Out RCA Plug
	Record Out RCA Plug
	Room Out RCA Plug
	Conference In RCA Plug
	Conference Out RCA Plug
Charger Base	DC power input port, Proprietary 4 pin microphone charge jacks

### Power Requirements:

Fusion Base Station	100-240V AC, 50-60 Hz, 65W (power cable varies by country)
Charger Base	5V DC, 2 Amps (switching power supply varies by country)

**Range:** 100' (30 meters) approx. (no obstructions)

### Maximum Microphones:

01-8FUSION(EU)-NM-01-01,	8 channels maximum
01-4FUSION(EU)-NM-01-01	4 channels maximum

**Battery:** Lithium Polymer, 8 hours approx. talk time

**Charge Time:** 2 hours approx.

**Audio Bandwidth** 100-7000 Hz

**Security:** 128-bit DSAA (DECT Standard Authentication Algorithm) authentication

## Great audio, wireless mobility, and simple to install!

Simply plug the cable into the AV system or phone system and it works. No software configuration is necessary. Even the Fusion box is designed to be easy to use—vertically or horizontally. No equipment rack needed. Just set the Fusion system on the credenza.

### Video Conferencing

Revolabs Fusion Wireless Microphone Solution is compatible with all of the major video-conferencing solutions, including Lifesize, Polycom, Sony, and Tandberg. It includes a remote control to control the sound volume. Decide on where you want to put the Fusion system, whether you want to place it vertically or horizontally, plug in the cables and you are ready to have great wireless audio in any conference room.

### Audio Conferencing

Plug the Fusion Wireless Microphone Solution into an analog telephone jack and you are on your way to great wireless teleconference calls. There is a remote control dialer to dial the conference phone number. You may connect to powered speakers, connect to existing speaker system or connect to a new room speaker system to hear the call. Decide on where you want to put the Fusion system, whether you want it vertical or horizontal, plug in the cables and you are ready to have great wireless audio in any conference room.

### Flexible

The Fusion System supports any combination of Solo Wireless Microphones- Wearable, Tabletop, or XLR adapter for a handheld microphone. Choose the right microphone for your meeting dynamics.

### Rechargeable

Revolabs Wireless Microphones have a rechargeable battery that provides eight hours of talk time after each full charge. Revolabs Wireless Microphones recharge to 85% capacity in approximately 45 minutes.

### Secure

All of Revolabs Wireless Microphones use 128-bit authentication, so that no one can listen in.

## Contents of box:

Fusion Base Station and four or eight wireless microphones (any type)



Charger Base and  
AC wall adapter for Charger Base



AC power adapter for Base Station



Remote Control



Fusion Base Station vertical stand



Cable A  
Speakers



Cable B  
Phone Cable



Cable C  
RCA



Cable D  
XLR

Optional boxes:

Four or eight wireless microphones, Remote IR Sensor, speakers

## EUROPEAN COMPLIANCE

This equipment has been approved in accordance with Council Directive 1999/5/EC "Radio Equipment and telecommunications Equipment.



Conformity of the Equipment with the guidelines below is attested by the CE mark.

### Model Numbers:

01-8FUSIONEU-NM-01-01	Revolabs Fusion Base Station, European
01-4FUSIONEU-NM-01-01	Revolabs Fusion Base Station, European
03-EXEMICEU-BLK-11	Revolabs Solo™ Executive Microphone
03-EXECHGEU-STD-11	Revolabs Solo™ Executive Charger
05-TBLMICEU-OM-BLK-11	Revolabs Solo™ Executive Table Microphone Omni
05-TBLMICEU-DR-BLK-11	Revolabs Solo™ Executive Table Microphone Cardioid
06-XLRMICEU-OM-BLK-11	Revolabs Solo™ Executive XLR Microphone Adapter

### STANDARDS TO WHICH CONFORMITY IS DECLARED:

RF ETSI EN 301 406 V 1.4.1 03/2001

EMC ETSI EN 301 489-6 v1.2.1 (2002-04)

### WEEE NOTIFICATION:

The Waste Electrical and Electronic Equipment (WEEE) directive (2002/96/EC) is intended to promote recycling of electrical and electronic equipment and their components at end of life.



### 2003/11/EC & 2002/95/EC "ROHS COMPLIANCE DIRECTIVE":

The products referenced herein are in compliance with the EU directive 2003/11/EC and EU directive 2002/95/EC.

## SAFETY COMPLIANCE

TUV SUD AMERICA

**INDUSTRY CANADA NOTICE TO USERS**

Operation is subject to the following two conditions:

- (1) This device may not cause interference and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

IC: 6455A-2FUSION8 Revolabs Fusion™ Base Station 8 microphones

IC: 6455A-2FUSION4 Revolabs Fusion™ Base Station 4 microphones

IC: 6455A-01EXEMIC Revolabs Solo™ Executive Microphone

**RESTRICTED USE WITH CERTAIN MEDICAL DEVICES**

**Hearing Aids**

Some devices may interfere with some hearing aids. In the event of such interference, you may want to consult with your hearing aid manufacturer to discuss alternatives.

**Other Medical Devices**

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

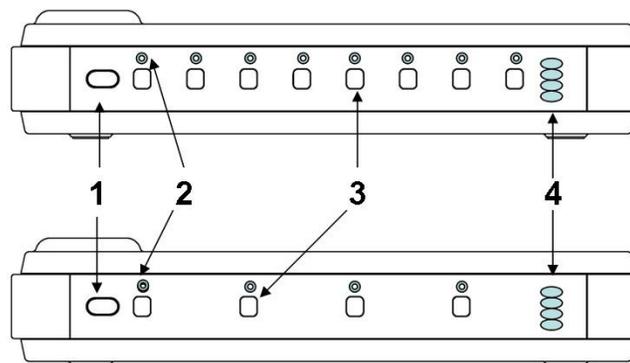
**EXPORT LAW ASSURANCES**

This product is controlled under the export regulations of the United States of America and Canada. The Governments of the United States of America and Canada may restrict the exportation or re-exportation of this product to certain destinations. For further information contact the U.S. Department of Commerce or the Canadian Department of Foreign Affairs and International Trade. The use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.

**Details about the Fusion**

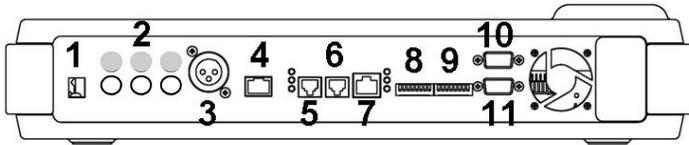
**Fusion Front Panel**

The Revolabs Fusion Base Station, shown below in front and rear panel views, manages wireless audio signal processing, and pairing between the Solo microphones and the Fusion Base Station.



1. **IR Remote receiver (if not in sight range of remote, page 22)**
2. **LED indicators: Displays microphone mute and pairing states**
3. **Pairing Push Buttons: For pairing microphones to Base Station (page 9)**
4. **Power On LED/Volume indicator**

## Fusion Back Panel



1. Power
2. 6 RCA Plugs
  - AUX IN (for auxiliary input devices)
  - AUX OUT
  - RECORD OUT (for audio recording devices)
  - ROOM OUT
  - CONFERENCE IN
  - CONFERENCE OUT
3. Conference Out XLR (Microphone level)
4. Network RJ 45 (Revolabs use only)
5. Telephone Line-in RJ11
6. Telephone Set-in RJ11
7. Audio Control RJ45 (Revolabs use only)
8. Programming Port: LEFT DIP Switches 1-8 (refer to page 18)
9. Programming Port: RIGHT DIP Switches 1-8 (Revolabs Use Only)
10. DB9 (Revolabs use only)
11. IR Remote DB9

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Safety and Regulatory Information

Please read the following information to ensure safe use of your Revolabs system.

### FCC User Information

FCC Registration Number: 0014898290

FCC ID: T5V2FUSION 8 Revolabs Fusion™ Base Station 8 microphones

FCC ID: T5V2FUSION4 Revolabs Fusion™ Base Station 4 microphones

FCC ID: T5V-01-EXEMIC Revolabs Solo™ Executive Microphone

### FCC NOTICE TO USERS

Users are not permitted to make changes or modify the equipment in any way. Changes or modifications not expressly approved by Revolabs, Inc. could void the user's authority to operate the equipment. To meet FCC and Industry Canada RF radiation exposure limits for general population (uncontrolled exposure), a minimum of 7.9 inches (20 cm) separation distance must be maintained between the Fusion Base Station and users' and/or nearby persons' bodies at all times. Additionally, the Fusion Base Station must not be co-located with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This product has been found to comply with the Rules of 47 CFR Part 68 of the Federal Communications Commission and Technical Requirements For Connection of Terminal Equipment to the Telephone Network TIA-968-A-1, A-2 and A-3.

**Certificate Number: US:6RMBR00BNEXIATC**      **Date: April 14, 2006**

**IMPORTANT NOTE: FEDERAL COMMUNICATIONS COMMISSION  
(FCC) RADIATION EXPOSURE STATEMENT**

This equipment complies with FCC radiation exposure limits for an uncontrolled environment.

## STEP 1: Fusion Set-Up

### Hardware

Decide if want to place Fusion Base Station horizontally or vertically on a flat surface. To set-up vertically, place the Fusion Base Station vertical stand on the bottom of the Fusion unit. Tighten bolt into Fusion Base Station.



### Fusion Base Station Placement

**WARNING: Do not put Fusion Base Station behind metal doors.**

If you are putting the Fusion Base Station into a cabinet with non-metal doors, you need to use the Remote IR Sensor (part number 07-IRREMO-01) for remote to work. (Refer to page 22)

### Power

Plug AC power adapter power cord into the back of the Fusion Base Station and into wall outlet.

Plug AC wall adapter into the power outlet and the other end into the microphone Charger Base.

Place wireless microphones in the Charger Base, let charge overnight or at least eight hours.

Indicator lights on the Base Station Charger Base and microphones should be lit, verifying all units are operating.

**NOTE:** Wait (approximately 30 seconds) until the Fusion Base Station has powered up and the status lights have stopped flashing, before continuing on with next steps,

## STEP 2: Audio Conferencing

Plug **Cable A** (single RCA to double RCA) single RCA connector into Fusion Base Station <Room Out> RCA port, and then plug the double RCA connectors into the powered speakers or a powered amplifier. Plug speakers into wall outlet.

Plug one end of **Cable B**, the phone line cable, into the Fusion Base Station <Line In>, plug other end into phone jack. You may also plug a phone into the RJ11 <Set In>. You may then dial with the remote control or the phone.

If you ordered Fusion packaged with 6 omni tabletops/2 wearable microphones or 3 omni tabletops/1 wearable microphone, you are all set to go! Take out the Wireless Microphones, un-mute them by pressing the mute button on the microphone and the **system is ready for a conference!**

If you purchased your microphones you must first establish a connection between your microphones to the Fusion Base Station. This is called “pairing”. Refer to page 9.

## STEP 2: Video Conferencing

You must have the audio output going from the Fusion Base station directly to the speakers used by the video-conferencing station. Plug **Cable A** (single RCA to double RCA) single RCA connector into Fusion Base Station <Room Out> RCA port and then plug the double RCA connectors into the speakers or monitor.

Once you have configured your video-conferencing station as shown on pages 11-17, then:

If you ordered Fusion packaged with 6 omni tabletops/2 wearable microphones or 3 omni tabletops/1 wearable microphone. You are all set to go! Take out the Wireless Microphones, un-mute them by pressing the mute button on the microphone and the **system is ready for a conference!**

If you purchased your microphones separately, you must first establish a connection between your microphones to the Fusion Base Station. This is called “pairing”. Refer to page 9.

Base Station LEDs	Meaning
OFF	Charging in Progress
OFF	Charging Complete
OFF	Microphone powered OFF or battery discharged
RED Flashing	Microphone master muted by remote control or tabletop master mute
RED Flashing	Microphone paired and muted
GREEN Flashing	Microphone paired and “live”
Solid RED	Pairing mode or confirmation of powering-down
OFF or Alternating slow GREEN and RED	Microphone or channel not paired
GREEN Flashing	Microphone low battery (mic live)
RED Flashing	Microphone low battery (mic muted)
OFF	Searching for a connection, or out of radio range. The Microphone will try to re-establish the link for about 15 minutes, and then turn off.
OFF	Radio congestion – it is not possible to make a radio connection because there are already too many nearby users, or there is heavy radio interference.
OFF	Unit is faulty. Contact your AV service provider for advice.

## Indicator Lights

Equipment Use	Microphone LED
Microphone in Charger Base	Solid RED
	Solid GREEN
Microphone not in Charger Base	OFF
	One RED flash every 1.5 seconds
	Two RED flashes every 1.5 seconds
	GREEN flash every 1.5 seconds
	Solid RED
	Alternating slow GREEN and RED
	YELLOW flash alternating with GREEN
	YELLOW flash alternating with two RED flashes
	Alternating RED, YELLOW, GREEN, YELLOW
	Rapid RED flashes continuing for more than a few seconds
Groups of five rapid RED flashes	

## STEP 3: Pairing Microphones to Fusion Base Station if Necessary

If you selected your microphones separately with the Fusion, you must first establish a connection between your microphones to the Fusion Base Station. This is called “pairing”.

Pairing creates a link with a unique electronic serial number between the Solo wireless microphone and the Fusion Base Station. When the microphone and Base Station have been previously paired, the microphone will automatically try to connect to the Base Station whenever it is lifted from the Charger Base.

**Note:** *Microphones in new systems must be paired to the Base Station with each microphone assigned to a unique channel on the base unit.*

Remember, microphones are always muted (flashing RED LED light) when they are removed from the Charger Base and the MUTE button needs to be pressed to make it “live” (flashing GREEN LED).

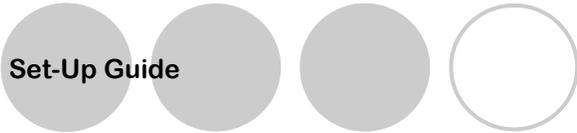
A microphone that is not paired will be indicated by either cycling RED-GREEN, or RED-YELLOW-GREEN LED patterns. A Base Station LED that is not paired to a microphone will not show any activity on the LED (make sure unit is first powered on by observing GREEN power LED on the front panel).

When the microphone and Fusion Base Station are paired, both microphone and channel LEDs will flash RED as microphones are removed from the Charger Base and flash GREEN when un-muted.

### To pair the microphone to the Fusion Base Station:

Turn the microphone OFF (no LED activity). If the microphone is ON, press and hold the MUTE button for 10 seconds until the LED turns solid RED (do not release when you hear two beeps). Release the button to turn the unit off.

(Continued on next page.)



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## STEP 3 Continued: Pairing Microphones to Fusion Base Station if Necessary

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Place the microphone unit into pairing mode by holding the MUTE button down for seven seconds. The LED will turn solid RED. Release the MUTE button. The microphone is now in pairing mode.

Within one minute, push and hold the button for the desired channel on the Base Station (refer to page 5) for seven seconds to enter into pairing mode then release. The LED for that channel will be solid red until pairing starts, as indicated by a quick GREEN flash, then switching to flashing RED on both the microphone and the Base Station (muted audio). Pairing is now complete.

The Fusion Base Station has four or eight indicator LED lights (one for each microphone) and pairing push buttons on the front panel. When the LED is flashing GREEN or RED, that channel is active and connected to a wireless microphone (GREEN is for live audio, RED is for muted). When the LED is OFF, the channel is inactive (the microphone is out of range or turned off).



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## Hearing Assistance

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### Setting the Hearing Assistance Option

#### All Microphones Hear Audio From the Far End (default)

If an earpiece is plugged into any of the microphones, the user will hear the far end of the audio only. DIP switch #8 is OFF (page 18).

#### Hear Audio From Both Far End and Within The Room

If the user needs to hear the audio from both the far end and the other microphones within the room, he/she must use the microphone paired to Channel 8 (refer to pairing mode page 9) and the DIP switch #8 must be set to ON (page 18). Please note that the Room Out RCA plug will no longer function in this mode; Aux Out will serve as Room Out.

**NOTE: The Fusion system must be powered off and back on for any DIP Switch changes to take effect.**

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## Remote IR Sensor

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### Setting the Remote IR Sensor Option

#### Front Panel IR Sensor (default)

If the Fusion Base Station is within view of the Remote Control, the front panel IR Sensor will accept all Remote Control functions. DIP switch #7 is OFF (page 18).

#### Remote IR Sensor

If the Fusion Base Station is in a cabinet and behind a door (non-metal), the front panel IR Sensor cannot work. The Remote IR Sensor cable (part number: 07-IRREMO-01) must be used to position the Fusion IR Sensor outside of the cabinet. Plug the serial plug end into the IR Remote connector on the back panel of the Fusion Base Station (page 9), bring IR Sensor end out of cabinet, and secure with Velcro. then set DIP switch #7 to ON (page 18).

**NOTE: The Fusion system must be powered off and back on for any DIP Switch changes to take effect.**

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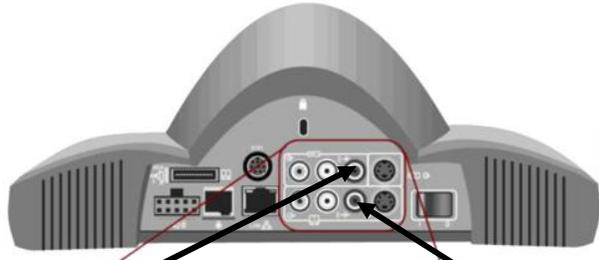
## Configuring the Fusion with the Video Conferencing System

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The following pages have a representative sample of the most popular video-conferencing systems. If you cannot find your specific video-conferencing station and need assistance in configuring the cables, check the additional documentation in the FAQs or Technical Documentation sections on [www.revolabs.com](http://www.revolabs.com) , or the video-conferencing station documentation.

## Polycom® Installation (Polycom VSX7000 shown for example)

This information is meant to be illustrative only. Consult your Polycom Videoconferencing System Administrator Manual for specific instructions.



Step 1      Step 2

1. Plug the red RCA connector on one end of **Cable C** into Polycom video-station <Audio Out I>, and then plug the red RCA connector on the other end into the Fusion Base Station <Conf In>.
2. Plug the black RCA connector on one end of **Cable C** into Polycom video-station <Audio In>, and then plug the black RCA connector on the other end into the Fusion Base Station <Conf Out>.

### To configure the Polycom system:

Select the button from the main screen to access the System menu.

Select the **System / Admin** settings.

Enter the administrator password and press **OK** (if needed).

Select the **Audio** settings.

Confirm or modify the following settings:

- **Midrange Speaker - OFF**
- **Line Input – Audio Mixer**
- **Echo Canceller - OFF**
- **Line Output – Monitor Far Site Audio**
- Press **OK** to save changes.

## Phone Auto Answer

### Setting Phone Answering Mode

#### Answer with Remote Control (default)

To answer a phone call and begin a teleconference, the user must use the Remote Control and press the “Call” key. DIP switch #6 is OFF (page 18).

#### Auto Answer

To answer a phone call and begin a teleconference, the user may use the Remote Control and press the “Call” key or the Fusion Base Station will automatically answer the call after two rings. DIP switch #6 is ON (page 18).

**NOTE: The Fusion system must be powered off and back on for any DIP Switch changes to take effect.**

## Tabletop Master Mute

### Setting the Mute Option

#### Individual Muting (default)

In the default setting, each Solo microphone will mute only itself when its mute button on the microphone is pressed. To mute all of the microphones, press the red MUTE button on the Remote Control; all microphones will flash red and no individual microphone can be unmuted until the remote MUTE button is pressed again. All microphones will return to their prior state. DIP switch #5 is OFF (page 18).

#### Tabletop Microphone Master Mute

In addition to the Remote Control MUTE button muting all of the microphones, the Solo Tabletop microphone MUTE button will also act as a master mute and mute all active microphones. Pressing any Tabletop microphone MUTE button or the Remote Control MUTE button will unmute all tabletop microphones. All wearable and handheld adapter microphones in use will return to their prior state. DIP switch #5 is ON (page 18).

**NOTE: The Fusion system must be powered off and back on for any DIP Switch changes to take effect.**

## Polycom® Installation (Polycom HDX9000 shown for example)

This information is meant to be illustrative only. Consult your Polycom Videoconferencing System Administrator Manual for specific instructions.

NOTE: Requires 2 special RCA Male to 3.5mm 3 pin connectors  
Revolabs Part #07-POLHDX-01.



Step 1

Step 2

1. Plug the 3.5mm 3 pin cable into the Polycom video-station <Audio In I Red>, and then plug the RCA connector on the other end into the Fusion Base Station <Conf Out>.
2. Plug the 3.5mm 3 pin cable into the Polycom video-station <Audio Out I Red>, and then plug the RCA connector on the other end into the Fusion Base Station <Conf In>.

#### To configure the Polycom HDX 9000 Series system:

:  
Select the button from the main screen to access the System menu.  
Select the **System / Admin** settings.  
Enter the administrator password and press **OK** (if needed).  
Select the **Audio** settings.

Confirm or modify the following settings:

- **Input Type – Line Input**
- **Input Type Level – 50%**
- **Echo Canceller - OFF**
- **Line Output Mode – Fixed**
- **Line Output Level – 50%**
- Press **OK** to save changes.

## Tandberg™ Installation (Tandberg Edge 95 shown for example)

This information is meant to be illustrative only. Consult your Tandberg Videoconferencing System Administrator Manual for the specific instructions.



Step 1

Step 2

1. Plug the black RCA connector on one end of **Cable C** into Tandberg video-station <Audio Out 1>, and then plug the black RCA connector on the other end into the Fusion Base Station <Conf In>. The other RCA connector is not used.
2. Plug one XLR connector of **Cable D**, XLR to XLR, into Tandberg video-station <Mic 1 Input> and the other XLR connector into the Fusion Base Station Mic Level Output <Conf Out (Mics)>.

### To configure the Tandberg system:

Select the button from the main screen to access the System menu.

Go to **Audio** settings

Confirm or modify the following settings:

- **Input 1 - MIC**
- **Output 1 - ON**
- **Audio Leveling - OFF**
- **Echo Canceller - OFF**

Adjust the audio **Input Level** if necessary.

Speak into the Revolabs microphones that are connected to the audio line inputs.

The audio meter should peak at about 5 dB.

## Multiple Fusion Systems

There are two settings that must be adjusted when more than one Fusion system is used within a 100' (30.5 m) range: frequency and transmit power level. These settings will enable several Fusion systems to be used near each other, but not interfere with each other. Interference between systems can cause occasional audio noise and signal dropouts on affected systems. Building conditions may influence this distance.

**NOTE: Even using the settings below, the 8-Microphone Fusion System requires 40 feet (12.2 m) between systems.**

### Setting the Transmit Power Level for Multiple Fusion Systems

In confined settings where multiple Fusion systems are used, or where audio interference is likely, it may be necessary to reduce the transmit power levels. The transmit power level between the microphones and Fusion Base Station can be set to the following three levels:

- Highest power level (default) – 100 feet (30.5 m) maximum operating distance between Microphone and Fusion Base Station DIP Switches #1 and #2 are OFF (page 18).
- Medium power level – 30 feet (9 m) maximum operating distance between Microphone and Fusion Base Station . DIP Switch #1 is ON and DIP Switch #2 is OFF (page 18).
- Lowest power level – 8 feet (2.4 m) maximum operating distance between Microphone and Fusion Base Station . DIP Switch #2 is ON and DIP Switch #1 is OFF (page 18).

### Frequency Settings

Frequency should be alternated to different frequency ranges, A and B. So an example of five conference rooms in a row would be configured:

Conference Room	1	2	3	4	5
Frequency	A	B	A	B	A

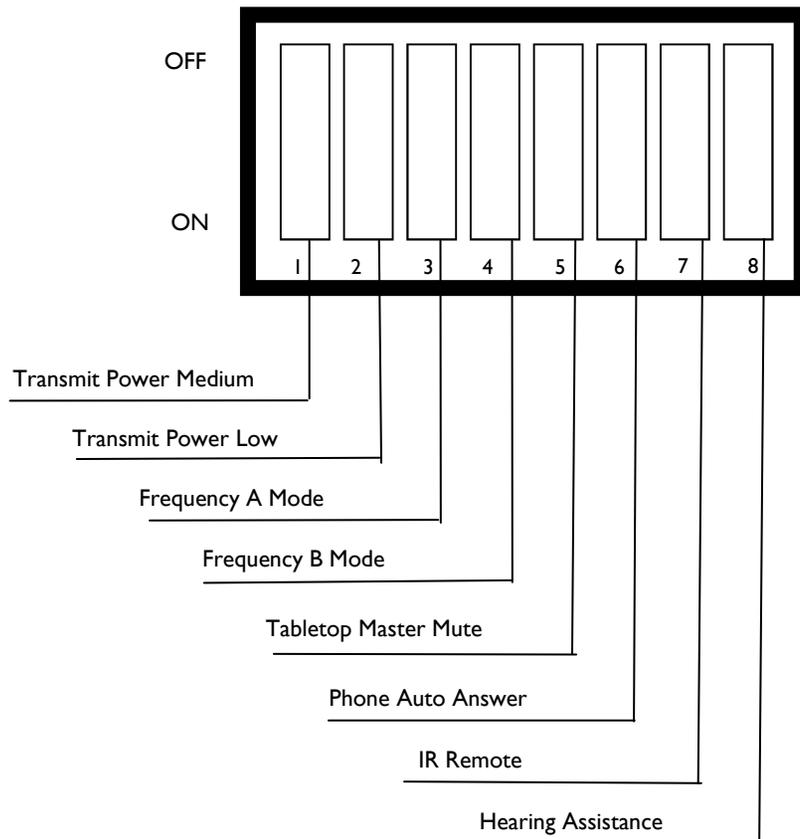
To configure the Fusion to frequency mode A, Dip Switch #3 is ON and DIP Switch #4 is OFF. Frequency mode B - Dip Switch #4 is ON and DIP Switch #3 is OFF. (page 18).

**NOTE: The Fusion system must be powered off and back on for any DIP Switch changes to take effect.**

## Programming Port: DIP Switches

The Fusion Base Station factory default settings are all OFF. The left Programming Port (#8, page 6) is end-user configurable. Programming Port (#9, page 6) on the right is reserved for Revolabs Use Only.

**NOTE: The Fusion system must be powered off and back on for any DIP Switch changes to take effect.**



## Tandberg™ Installation (Tandberg Profile MXP shown for example)

This information is meant to be illustrative only. Consult your Tandberg Videoconferencing System Administrator Manual for the specific instructions.



**Step 1**                      **Step 2**

1. Plug one XLR connector of **Cable D**, XLR to XLR, into Tandberg video-station <Mic 1 Input> and the other XLR connector into the Fusion Base Station Mic Level Output <XLR>.
2. Plug the black RCA connector on one end of **Cable C** into Tandberg video-station <Audio Out 1>, and then plug the black RCA connector on the other end into the Fusion Base Station <Conf In>. The other RCA connector is not used.

### To configure the Tandberg system:

Select the button from the main screen to access the System menu.

Go to **Audio** settings

Confirm or modify the following settings:

- **Input 1 - MIC**
- **Output 1 - ON**
- **Audio Leveling - OFF**
- **Echo Canceller and Noise Reduction (EC and NR) - OFF**

Adjust the audio **Input Level** if necessary.

Speak into the Revolabs microphones that are connected to the audio line inputs.

The audio meter should peak at about 5 dB.

