

INTRODUCTION

The External Speaker Bar is an add-on module for the Konnekt Videophone. It is used to increase volume when the Videophone speakers are not loud enough, or to improve audio quality for those that find the standard speakers have too much treble or sound "tinny". The External Speaker Bar can provide a significant increase in volume, and provides improved sound quality with more bass tones.

The External Speaker Bar is a Cyber Acoustics model CA-2880. It has been chosen for use with the Videophone due to the sound quality and volume, but also because it conforms to the Konnekt philosophy of simplicity, and reliability.

- It derives power from a standard USB port. It therefore does not need charging and cannot accidentally go flat.
- It has a real power switch, instead of an automated "soft" switch, so it powers up when the Videophone turns on.
- No USB audio drivers or setup required. Sound is instead obtained from the Videophone 3.5mm Audio Out socket.
- Volume can be adjusted using a physical volume knob on the top. No computer skills required.

Installation Tips

- To avoid audio feedback / echo and to reduce echo-suppression artefacts (such as "one way at a time" speech), the Speaker Bar must not be installed close to the microphone, and the speakers should be aimed away from the microphone.
- If necessary, cover the Power Switch and Volume Knob with electrical tape or similar, to prevent accidental adjustment or switching off by the Videophone user.
- If the blue LED is too bright at night, cover it with a small piece of black electrical tape or similar. However, DO NOT cover the entire speaker bar or any part of the Videophone with cloth or other objects.

Important Note

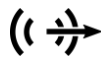
The External Speaker Bar plugs into the 3.5mm Audio Out socket on the Videophone. Once plugged into the Audio Out socket, the Videophone speakers become de-activated, and all audio gets redirected to the External Speaker Bar.

So please be aware that **NO SOUND WILL BE HEARD** if

- the Speaker Bar is unplugged from the USB port or the Power Switch is turned off, or
- the Speaker Bar volume knob is set to zero

(1) 3.5mm Audio Connector:

Connect to the Audio Out socket on the bottom of the Videophone:



(2) USB Connector:

Connect to one of the Videophone USB Ports. Take great care to ensure correct orientation, otherwise you will damage the USB port.

(3) Speakers:

Ensure they are facing away from the Videophone microphone.

(4) Clamp:

Spring loaded, with rubber feet.

(5) Controls:

- Power Switch
- Volume Knob
- LED Power Indicator (blue = ON)



CHOOSING AN INSTALLATION LOCATION

If using the optional plug-in microphone, then the recommended placement of the Speaker Bar is on the top right of the Videophone. This provides maximum distance between the Speaker Bar and plug-in microphone, and faces the speakers towards the Videophone user.

If using the default internal microphone (located at top-centre just to the left of the camera), then the Speaker Bar is best placed either beneath or beside the base of the Videophone, or clamped onto the lower right edge of the Videophone.


However, due to vision, mobility, or cognitive difficulties, some Videophone users may be prone to knocking the Speaker Bar, or inadvertently altering the Speaker Bar controls, which can cause sound to be disabled. In these situations, it is best to install the Speaker Bar out of sight behind the Videophone, and/or to place electrical tape over its controls.

The options for mounting are:

- Mount on the top edge or the right edge of the Videophone, facing forward
- Mount out of sight behind the Videophone, clamped onto the top of the Kickstand, facing rearward
- Mount beneath or beside the Videophone, clamped onto a suitable object, surface, or (if in use) a Videophone mounting bracket.


INSTALLING THE SPEAKER BAR

Mounting on the Top Edge or Right Edge of Videophone

- Clamp the Speaker Bar on the top right edge of Videophone as shown so it does not obscure the Videophone webcam, or on the lower right edge.
- Carefully route the Speaker Bar cables to ensure that
 - they do not protrude underneath or around the Videophone
 - they cannot be snagged on fingers / hands / clothing
- Plug the 3.5mm Audio Connector into the Audio Out socket on the bottom of the Videophone labelled thus: 
- Plug the USB Connector into one of the USB Ports on the bottom of the Videophone.
- Turn on the Speaker Bar using its Power Switch.
- Conduct test calls and adjust the Volume Knob to preference.



Mounting onto Kick Stand


- Using the Speaker Bar Clamp, mount onto the Kickstand as shown.
- Carefully route the Speaker Bar cables to ensure that
 - they do not protrude underneath or around the Videophone
 - they cannot be snagged on fingers / hands / clothing
- Plug the 3.5mm Audio Connector into the Audio Out socket on the bottom of the Videophone labelled thus: 
- Plug the USB Connector into one of the USB Ports on the bottom of the Videophone.
- Turn on the Speaker Bar using its Power Switch.
- Conduct test calls and adjust the Volume Knob to preference.



Mounting to Suit a Custom Bracket

If you have supplied your own bracket to mount Videophone onto a wall (for example) and need to ensure that the Speaker Bar is installed behind the Videophone out of sight, you may need a customised installation of the Speaker Bar. With some brackets, it is possible to simply clamp the Speaker Bar onto a section of bracket, and carefully route cables. But this is highly dependent upon the type of bracket, and therefore no specific instructions can be provided here. If in doubt, consider using a professional installer.

GUIDELINES, SHOULD YOU DECIDE TO PROCEED

- If possible, use the Clamp to secure the Speaker Bar to a section of the Videophone bracket that moves with the Videophone.
- If there is no suitable section of bracket to clamp onto, you will need to use double-sided tape or cable ties to secure the Speaker Bar to a section of bracket, or to the back of the Videophone itself.
NOTE: Do not drill holes into any part of the Videophone, or obscure vents in any way
- If you use double-sided tape to adhere the Speaker Bar onto the back of the Videophone, you must also use spacers to ensure that the Speaker Bar cables are not squashed or bent, and to provide an air gap for heat dissipation.
- Carefully route the Speaker Bar cables to ensure that
 - they do not protrude or dangle underneath or around the Videophone
 - they cannot be snagged on fingers / hands / clothing
 - they are not squashed or bent at any point
- Plug the 3.5mm Audio Connector into the Audio Out socket on the bottom of the Videophone labelled thus: 
- Plug the USB Connector into one of the USB Ports on the bottom of the Videophone.
- Turn on the Speaker Bar using its Power Switch.
- Conduct test calls and adjust the Volume Knob to preference.

Correct Connection of USB and Audio Cables

