

Audio Microphone and/or Speaker Setup

Using Single Channel Microphone and/or Speaker

Microphone Hardware Setup

1. Make sure that DVR is powered off.
2. Only a qualified technician should install microphone components.
3. The Window Vision Mic Kit includes the following:
 - a. Microphone
 - b. Microphone Adaptor
 - c. Power Supply
 - d. Stereo-to-Stereo Cable
4. Run 22 Gauge, two stranded, shielded wire from the mic to the head-end (DVR).
5. At the Mic: the 22 Ga. RED wire connects to the “+” on the Mic.
6. At the Mic: the 22 Ga. BLK wire connects to the “-” on the Mic.
7. At the Mic: the 22 Ga. DRAIN wire connects to the “audio” on the Mic.
8. Install the Microphone. Place the mic. as close to the sound source as possible for best results.
9. At the head-end, the 22 Ga. RED wire connects to the “+” on the Mic Adaptor
10. At the head-end, the 22 Ga. BLK wire connects to the “-” on the Mic Adaptor
11. At the head-end, the 22 Ga. DRAIN wire connects to the “audio” on the Mic Adaptor
12. The Mic Adaptor has a Stereo output for the connected Mic. Use the Stereo-to-Stereo cable to connect the output on the Mic adaptor to the audio input jack (RED). The mic. Connected will be associated to video channel one.
13. Connect the power supply to the Mic. Adaptor power jack.

Audio Microphone and/or Speaker Setup

Microphone Software Setup

1. Select the “Setup” main toolbar button.
2. Select “Audio Settings”. Remember to turn off Recording to enable the Audio settings option.
3. Run the test by selecting the “Test” button. The test will first record from the selected mic. and then automatically playback what was recorded. Make sure that your system speakers are installed correctly.
4. If the test does not work:
 - a. Make sure the wiring is as described on this instruction sheet
 - b. Make Sure the microphone adaptor is powered
 - c. Make sure the system speakers are installed correctly. To check your system speakers, play a Windows sound from the Control Panel, Sound option. If you do not hear a sound then your speakers are not set up properly.
 - d. Check the Windows audio controls. Make sure that the system volume and microphone is turned up.
 - e. If also installing remote speakers, make sure it is not yet connected and that normal computer speakers are installed.
 - f. If the test still does not the mic. may be bad.
5. To hear live audio from the selected camera, check the “Live Audio” option (only when not using a remote speaker).
6. When finished, select the “OK” button to close the window.
7. If you also want to record audio, select the “Setup” main toolbar button.
8. Select the Recording Settings option.
9. On the first page of the Wizard make sure “Record Sound” is selected.
10. Select “Next” and then “Finish” to close the window.
11. To turn Audio on and off, select the “Setup” main toolbar button, and then select the “Audio On/Off” option.

Speaker Hardware Setup

Audio Microphone and/or Speaker Setup

1. Make sure that DVR is powered off.
2. Only a qualified technician should install speaker components.
3. Run 22 Gauge, two stranded, shielded wire from the speaker to the head-end (DVR).
4. At the Speaker: the 22 Ga. RED wire connects to the “+” on the Speaker.
5. At the Speaker: the 22 Ga. BLK wire connects to the “-” on the Speaker.
6. At the Speaker: the 22 Ga. DRAIN wire connects to the “Speaker” or “S” on the Speaker.
7. Install the Speaker.
8. At the head-end, the 22 Ga. RED wire connects to the “+” on the Speaker Adaptor
9. At the head-end, the 22 Ga. BLK wire connects to the “-” on the Speaker Adaptor
10. At the head-end, the 22 Ga. DRAIN wire connects to the “Speaker” or “S” on the Speaker Adaptor
11. A Stereo-to-Stereo cable connects the Speaker Adaptor to the audio out of the DVR. Plug the stereo end into the “speaker” output on the rear of the DVR. This is the Green jack. Connect the other end to the Speaker Adaptor.
12. Connect the power supply to the Speaker Adaptor power jack.

Speaker Software Setup

1. There is no software setup for the speaker when only using one speaker in this fashion.

Audio Microphone and/or Speaker Setup

Audio Installation Single Mic and/or Speaker



Speaker Setup

Use 22 gauge, two strand, shielded audio wire.

Connect the red wire to "+" on both the speaker and Speaker Adaptor.

Connect the Black wire to "-" on both the speaker and Speaker Adaptor.

Connect the drain wire to "Speaker" on both the speaker and Speaker Adaptor.

Connect the Speaker Adaptor, via the supplied stereo-to-stereo cable, to the speaker jack (green) on the DVR's internal audio card.



Microphone Setup.

Use 22 gauge, two strand, shielded audio wire.

Connect the Red wire to "+" on both the Mic and adaptor.

Connect the Black wire to "-" on both the Mic and adaptor.

Connect the Drain wire to "Audio" on both the Mic and Mic Adaptor.

Connect the microphone adaptor, via the supplied stereo-to-stereo cable, to the Microphone jack (RED) on the DVR's internal audio card.

NOTE: When using a single Mic and Speaker audio will not be available at the Host computer. You cannot talk to or listen to a location. Two-Way audio can only be done remotely. However, audio can still be recorded. To hear recorded audio at the host location it will be necessary to 1) Temporarily unplug the speaker and plug in a pair of computer speakers or 2) Listen to audio on the installed speaker (this may be impractical). Archives burned to CD or DVD will have recorded audio that can be reviewed at another computer.

Audio Microphone and/or Speaker Setup

Using the Multi-Channel Audio Card and/or Speaker Switcher

Microphone Hardware Setup

14. Make sure that DVR is powered off.
15. Only a qualified technician should install microphone components.
16. When using more than one microphone, the optional Audio Input card must be used.
17. The Window Vision Mic Kit includes the following:
 - e. Microphone(s)
 - f. Microphone Adaptor
 - g. Power Supply
 - h. RCA Cable(s)
18. Run 22 Gauge, two stranded, shielded wire from the mic to the head-end (DVR).
19. At the Mic: the 22 Ga. RED wire connects to the “+” on the Mic.
20. At the Mic: the 22 Ga. BLK wire connects to the “-” on the Mic.
21. At the Mic: the 22 Ga. DRAIN wire connects to the “audio” on the Mic.
22. Install the Microphone. Place the mic. as close to the sound source as possible for best results.
23. At the head-end, the 22 Ga. RED wire connects to the “+” on the Mic Adaptor
24. At the head-end, the 22 Ga. BLK wire connects to the “-” on the Mic Adaptor
25. At the head-end, the 22 Ga. DRAIN wire connects to the “audio” on the Mic Adaptor
26. The Mic Adaptor has a RCA output for each connected Mic. Use the RCA-to-RCA cable to connect the RCA output on the Mic adaptor to the RCA audio in jack. The mic. Connected to channel one will be associated to camera one, mic. Input two with camera two, etc. The audio channels are joined with the video channels. The uppermost set of RCA pigtails on the optional audio card is mic. channels 1-8. The lowermost set of RCA pigtails are channels 9-16 even though the pigtails are only numbered 1-8.
27. Repeat steps 5-13 for each Microphone.
28. Connect the power supply to the Mic. Adaptor power jack.

Audio Microphone and/or Speaker Setup

System Speaker Setup

1. To listen to live audio at the DVR location it is necessary to connect a speaker to the RCA audio output on the optional audio card.
 - a. Use a RCA-to-stereo cable.
 - b. Connect the RCA end into the audio cards audio out RCA jack.
 - c. Connect the stereo end to a set of computer speakers (a female to female stereo adaptor may be required).

Microphone Software Setup

12. Select the “Setup” main toolbar button.
13. Select “Audio Settings”. Remember to turn off Recording to enable the Audio settings option.
14. When the optional audio card is installed you will see “Hera” as a sound card option in the recording drop-down section. Make sure it is selected. The Channel option below the recording drop-down will also be enabled.
15. For each installed audio channel run the test by selecting the “Test” button. The test will first record from the selected mic. and then automatically playback what was recorded. Make sure that your system speakers are installed correctly.
16. If the test does not work:
 - a. Make sure that mic. one is truly on the first input
 - b. Make sure the wiring is as described on this instruction sheet
 - c. Make Sure the microphone adaptor is powered
 - d. Make sure the system speakers are installed correctly. To check your system speakers, play a Windows sound from the Control Panel, Sound option. If you do not hear a sound then your speakers are not set up properly.
 - e. Check the Windows audio controls. Make sure that the system volume is turned up.
 - f. If the test still does not work try another mic channel. If another mic channel works, then the first mic. may be bad.
17. To hear live audio from the selected camera, check the “Live Audio” option.
18. When finished, select the “OK” button to close the window.

Audio Microphone and/or Speaker Setup

19. If you also want to record audio, select the “Setup” main toolbar button.
20. Select the Recording Settings option.
21. On the first page of the Wizard make sure “Record Sound” is selected.
22. Select “Next” and then “Finish” to close the window.
23. To turn Audio on and off, select the “Setup” main toolbar button, and then select the “Audio On/Off” option.

Speaker Hardware Setup

13. Make sure that DVR is powered off.
14. Only a qualified technician should install speaker components.
15. When using more than one speaker, the optional Speaker Switcher must be used.
16. Run 22 Gauge, two stranded, shielded wire from the speaker to the head-end (DVR).
17. At the Speaker: the 22 Ga. RED wire connects to the “+” on the Speaker.
18. At the Speaker: the 22 Ga. BLK wire connects to the “-” on the Speaker.
19. At the Speaker: the 22 Ga. DRAIN wire connects to the “Speaker” or “S” on the Speaker.
20. Install the Speaker.
21. At the head-end, the 22 Ga. RED wire connects to the “+” on the Speaker Switcher
22. At the head-end, the 22 Ga. BLK wire connects to the “-” on the Speaker Switcher
23. At the head-end, the 22 Ga. DRAIN wire connects to the “Speaker” or “S” on the Speaker Switcher
24. The Speaker Switcher has an input for each connected speaker. The speaker connected to channel one will be associated to camera one, speaker input two with camera two, etc. The audio channels are joined with the video channels.
25. Repeat steps 5-12 for each Speaker.
26. A control cable is included with the Speaker Switcher. Plug the RS232 (or serial) end into the serial port on the rear of the DVR. Plug the mini jack end into the Speaker Switcher control (or RS232) jack. When using more than eight audio channels it is necessary to use the supplied jumper cable between the two speaker switchers (each speaker switcher handles up to eight speakers).

Audio Microphone and/or Speaker Setup

27. A stereo-to-RCA cable (not included) connects the speaker switcher to the audio out of the DVR. Plug the stereo end into the “speaker” output on the rear of the DVR. This is the Green jack. Connect the RCA end into the “Audio” Input on the speaker switcher.
28. Connect the power supply to the Speaker Switcher power jack.

System Microphone Setup

1. To talk to each speaker location from the DVR, install a standard computer microphone. Use a standard computer mic. and plug it into the mic. input on the rear of the DVR. This is the Red jack.

Speaker Software Setup

2. Select the “Setup” main toolbar button.
3. Select the “Speaker Switcher Settings” option.
4. Select the “Activate Speaker Switcher” option.
5. For broadcast capability (talk to all speakers at once) select “Stream sound to all speakers”.

Audio Microphone and/or Speaker Setup

Audio Installation

More than one Mic or Speaker

NOTE: When more than eight speakers are being used a second speaker switcher must be purchased.

Speaker Setup: To use more than one Speaker, the optional Speaker Switcher must be purchased.

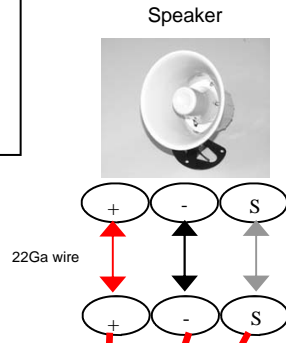
Use 22 gauge, two strand, shielded audio wire.

Connect the red wire to "+" on both the speaker and switcher.

Connect the Black wire to "-" on both the speaker and switcher.

Connect the drain wire to "S" on both the speaker and switcher.

Repeat for each Speaker being used.



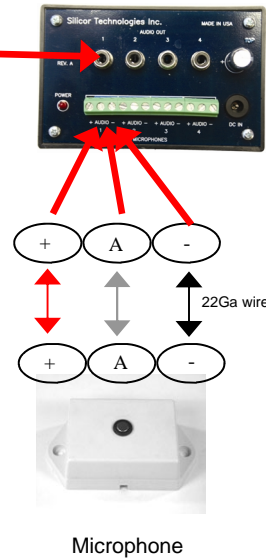
Connect the RS232 Plug to the computer serial port and connect the stereo jack to the RS232 input on the speaker switcher

A Stereo to RCA jack connects the computer speaker output (stereo jack) to the Speaker Input (RCA Jack) on the speaker switcher



RCA Mic Inputs 1-8 Pigtails

RCA Mic Inputs 9-16 Pigtails



Computer Microphone

Live Audio Speakers



Use the computer Mic. to speak to desired speaker locations. Connect a standard computer Microphone to the RED (Microphone) jack on the back of the computer.

To listen to live audio at the computer, use an RCA to stereo cable. Plug the RCA end into one of the RCA outputs on the audio card. Use the stereo side for a set of computer speakers

Microphone Setup: To use more than one Microphone, the optional Audio input card must be purchased.

Use 22 gauge, two strand, shielded audio wire. Connect the red wire to "+" on both the Mic and adaptor.

Connect the Black wire to "-" on both the Mic and adaptor.

Connect the drain wire to "Audio" on both the Mic and adaptor.

Connect the RCA Output jack on the adaptor to the RCA Mic Input on the Audio input card.

Repeat for each Mic being used.