## SD Card Layout

Your SD card will have an AMBIENT and INPUT1 folder. Put your MP3s in the appropriate folder depending on when you want them to play. The filenames of the MP3s are not important unless you are using multiple sounds in the same folder. If you'd like to use multiple audio files in each scene, or aren't sure where to put your files, download our free Director software. It'll put the files in the right place and make sure they're in the correct format.

📁 **SD Card ROOT Folder** ⊠

📁 AMBIENT   INP...

📁 **AMBIENT or INPUT1 Folder** ⊠

♪ MP3   BIN

MY SOUND   000
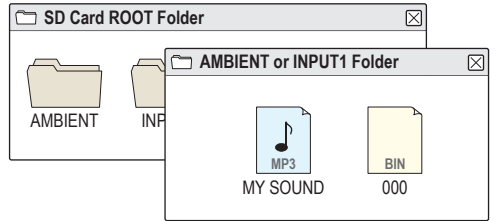
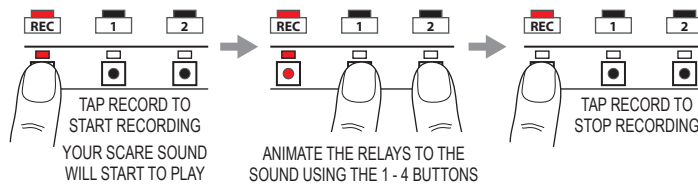Ignore any BIN files in these folders. The PicoBoo uses these to store your scene animation.

The PicoBoo will blink an error code using the REC light when it has a problem with the SD card.

REC LED ERROR CODES	
Blinks	**Error Description**
1	No SD Card
3	No INPUT1 folder
4	No 000.BIN file found for recording.
5	Error writing to the SD card
13	SD card FAT error. Usually means the card format is not FAT16 or FAT32.

Recording Animation

TRY OUR DIRECTOR SOFTWARE

Try our free software to make easy work of creating complex scenes.

REC 1 2   →   REC 1 2   →   REC 1 2

TAP RECORD TO START RECORDING

YOUR SCARE SOUND WILL START TO PLAY

ANIMATE THE RELAYS TO THE SOUND USING THE 1 - 4 BUTTONS

TAP RECORD TO STOP RECORDING

Previewing your Scare
To preview your Scare press the 4 button. Press the 4 button again to stop it.

Recording Outputs One at a Time
Hold the REC button for a few seconds until all the output LEDs turn on. Use the output buttons to toggle the outputs you'd like to record. If the light is on that output will record, if it's off it will play back. Once you've selected the outputs you'd like to record, let go of the REC button.

Recording Ambient Animation
The PicoBoo MAX can also have animation in the Ambient mode. Power up the PicoBoo while holding the 3 button, let go after a few seconds. Pressing REC will now record Ambient animation. To preview press 3. To go back to recording the Scare animation, power down and back up without holding any buttons.

Write-Protecting Your Animation
You can write-protect your animation by creating a folder named _PROTECT (underscore PROTECT) in the root folder of your SD card. When the PicoBoo powers up it will blink the red REC light twice if it's write-protected.

Settings

The PicoBoo MAX has many powerful features that can be enabled by simply creating folders with special names. The folders must be located in either the SD Card's ROOT folder, or the AMBIENT / INPUT1 folders depending on the option. All folder names must start with the underscore as shown. Substitute any # characters with a number.

| Folder Name	See brackets for valid folder location (Root, Ambient, Input1)
_JUKEBOX	*JukeBox Mode (Ambient) - Plays ALL audio files start to finish while looping any animation.*
_RESUME#	*Ambient Resume (Ambient) - Resume audio when returning to Ambient. (# = fade in rate 1-5)*
_FADINT#	*Fade on Interrupt (Ambient) - Fade out when interrupted . (# = fade in rate 1-5)*
_PLAYALL	*Play All Audio - Plays all the audio files in the folder instead of the one that matches the animation.*
_NCINPUT	*Normally-Closed Input (Input1) - Sets trigger input for use with normally-closed triggers.*
_MOMENT	*Momentary Input (Input1) - The scene will only play for as long as the trigger is active .*
_VOL-L##	*Volume - Sets volume for this folder only. Use -R for right audio channel. (0-25, default 25)*
_PSD####	*Trigger Post Delay (Input1) - The trigger will be ignored for # seconds after the scene plays.*
_TDLY###	*Trigger Startup Delay (Root) - The trigger will be ignored for # seconds at startup. Use with PIRs.*

Quick-Start Guide

PicoBoo MAX

MORE INFORMATION ONLINE
This guide doesn't cover all the PicoBoo Max can do.
Tutorial videos and a full manual are available online.

Power Supply

POWER CAN BE SUPPLIED USING THE BARREL CONNECTOR OR THE TRIGGER TERMINAL BLOCK.

⊖ ⊕ IN   -⊝-⊕+
12 VDC

TRIGGER   PWR
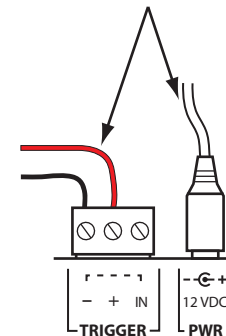
Sizing your Power Supply
Your PicoBoo's power supply must be 12 volts DC. The wattage you'll need depends on whether you're using the internal amp, and if you're trying to power other devices from the same supply.

Add up the wattage of all the devices that will be used at the same time and make sure your power supply's wattage is equal to or higher than that number. Use 2 watts for the PicoBoo if you're not using the amp, or 30 if you are.

Example:
```
   30 watts   PicoBoo MAX and internal amp
+  12 watts   2 x 12VDC 6 watt solenoids
=  42 watts   Total - Need a 12 volt power supply
              capable of supplying at least 42 watts.
```

Operation

POWER ON

↓

LOOP AMBIENT SCENE
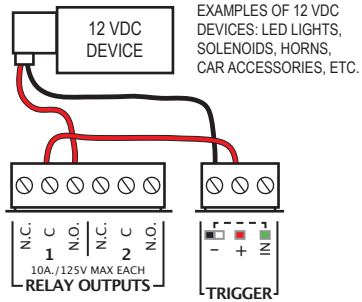
↓

IS TRIGGER ACTIVE? —NO→

↓ YES

PLAY INPUT SCENE
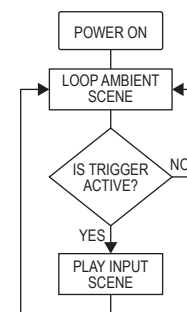
When the PicoBoo MAX starts up it will immediately start looping the Ambient scene. If an Ambient scene doesn't exist it'll sit idle waiting for a trigger signal.
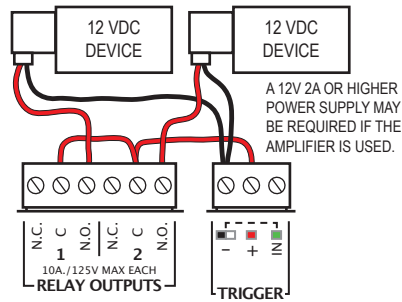
If a trigger is activated any time during the playback of an Ambient scene, the Ambient scene will be interrupted and the Input scene will be played. Additional triggers on the input will be ignored during playback of the Input scene. When the Input scene has finished the Ambient scene will start again from the beginning.

The Input scene can be manually triggered or stopped at anytime by pressing the 4 button. The Ambient scene can be toggled on/off by pressing the 3 button.
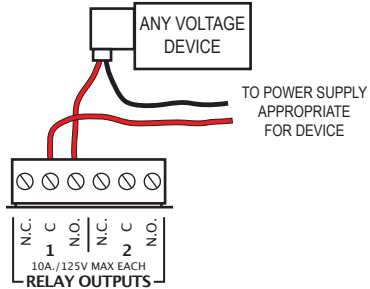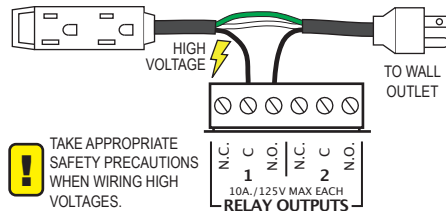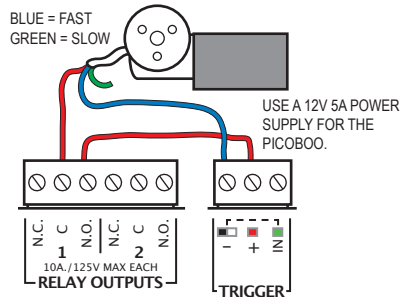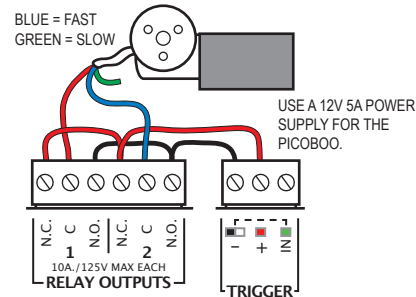
Relay Output Wiring

ANY 12 VDC DEVICE

12 VDC DEVICE

EXAMPLES OF 12 VDC DEVICES: LED LIGHTS, SOLENOIDS, HORNS, CAR ACCESSORIES, ETC.

N.C. C N.O. | N.C. C N.O.
1 | 2
10A./125V MAX EACH
RELAY OUTPUTS

TRIGGER

TWO 12 VDC DEVICES

12 VDC DEVICE | 12 VDC DEVICE

A 12V 2A OR HIGHER POWER SUPPLY MAY BE REQUIRED IF THE AMPLIFIER IS USED.

N.C. C N.O. | N.C. C N.O.
1 | 2
10A./125V MAX EACH
RELAY OUTPUTS

TRIGGER

ANY DEVICE THAT'S NOT 12 VDC

ANY VOLTAGE DEVICE

TO POWER SUPPLY APPROPRIATE FOR DEVICE

N.C. C N.O. | N.C. C N.O.
1 | 2
10A./125V MAX EACH
RELAY OUTPUTS

ANY 110 VOLT LOAD

HIGH VOLTAGE

TO WALL OUTLET

⚠ TAKE APPROPRIATE SAFETY PRECAUTIONS WHEN WIRING HIGH VOLTAGES.

N.C. C N.O. | N.C. C N.O.
1 | 2
10A./125V MAX EACH
RELAY OUTPUTS

12 VDC MOTOR ON/OFF IN ONE DIRECTION

BLUE = FAST
GREEN = SLOW

USE A 12V 5A POWER SUPPLY FOR THE PICOBOO.

N.C. C N.O. | N.C. C N.O.
1 | 2
10A./125V MAX EACH
RELAY OUTPUTS

TRIGGER

12 VDC MOTOR FORWARD AND REVERSE

BLUE = FAST
GREEN = SLOW

USE A 12V 5A POWER SUPPLY FOR THE PICOBOO.

N.C. C N.O. | N.C. C N.O.
1 | 2
10A./125V MAX EACH
RELAY OUTPUTS

TRIGGER

FOG MACHINE

FOG MACHINE

FOG

HIGH VOLTAGE

SEE OUR WEBSITE FOR A COMPATIBLE FOG MACHINE CABLE SO YOU DON'T HAVE TO HACK YOUR REMOTE.

OR

1. UNPLUG FOG MACHINE
2. OPEN REMOTE
3. LOCATE FOG BUTTON PINS
4. SOLDER A WIRE TO EACH PIN
5. CONNECT THOSE WIRES AS SHOWN

N.C. C N.O. | N.C. C N.O.
1 | 2
10A./125V MAX EACH
RELAY OUTPUTS

ONE 110 VOLT DEVICE, ONE 12 VDC DEVICE

HIGH VOLTAGE

TO WALL OUTLET

12 VDC DEVICE

N.C. C N.O. | N.C. C N.O.
1 | 2
10A./125V MAX EACH
RELAY OUTPUTS

TRIGGER

Trigger Input Wiring

PIR MOTION SENSOR

SENSOR WIRES	
BLACK	GND (-)
RED	12VDC (+)
WHITE	RELAY C
GREEN	RELAY N.O.

NOTE: PIR SENSORS CAN TAKE UP TO A MINUTE TO "WARM UP". DURING THIS TIME THE SENSOR WILL NOT RESPOND AND THE PICOBOO MAY TRIGGER.
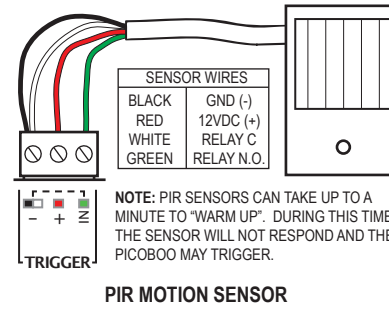
− + IN
TRIGGER
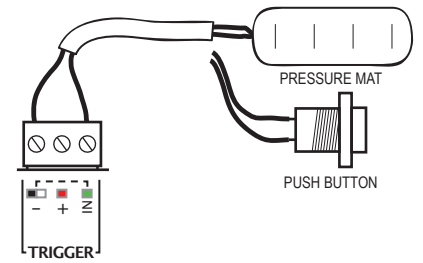
PRESSURE MAT OR PUSHBUTTON

PRESSURE MAT

PUSH BUTTON

− + IN
TRIGGER

BEAM SENSOR

SENSOR WIRES	
BLUE	GND (-)
BROWN	12VDC (+)
WHITE	RELAY C
BLACK	RELAY N.O.
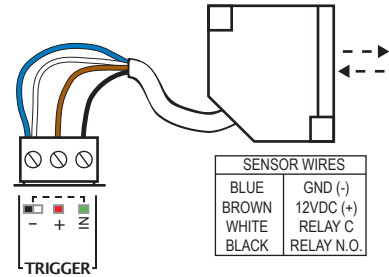
− + IN
TRIGGER

CONTINUOUS PLAY (LOOPED)

LOOPED WITH ON/OFF OPTION

LOOPED

SWITCH

− + IN
TRIGGER

− + IN
TRIGGER

WIRELESS TRIGGER

C
N.O.
RELAY OUTPUT

−
+
POWER
BASE STATION

CONNECT THESE ONLY IF THE BASE RUNS ON 12 VDC AND DOES NOT HAVE ITS OWN POWER SUPPLY CONNECTED.

REMOTE
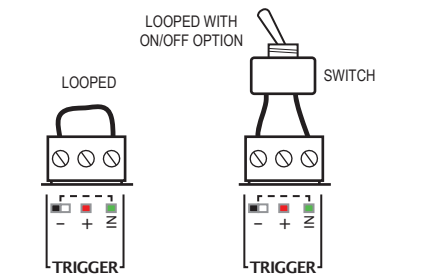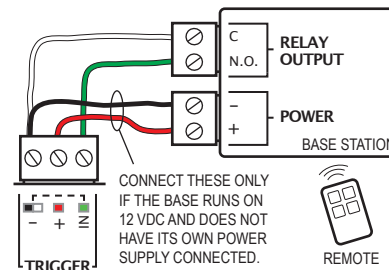
− + IN
TRIGGER
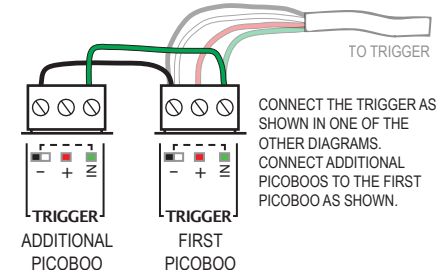
MULTIPLE PICOBOOS WITH ONE TRIGGER

TO TRIGGER

CONNECT THE TRIGGER AS SHOWN IN ONE OF THE OTHER DIAGRAMS. CONNECT ADDITIONAL PICOBOOS TO THE FIRST PICOBOO AS SHOWN.

− + IN
TRIGGER
ADDITIONAL PICOBOO

− + IN
TRIGGER
FIRST PICOBOO

Audio and Speaker Outputs

SPKR VOL
4/▶
L R
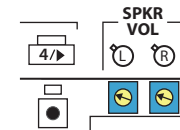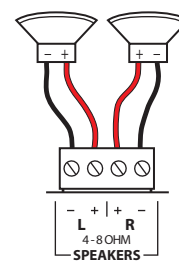
Using the Speaker Outputs

Use 4 or 8 ohm speakers. 8 ohm speakers will not utilize the amplifier to its full potential, use 4 ohm if you need every watt. Use the volume controls above to adjust the speaker volume. If the audio starts to distort or crackle your power supply is probably too small.

− + | + −
L R
4 - 8 OHM
SPEAKERS

Powered Speakers or Amplifier

− + | + −
L R
4 - 8 OHM
SPEAKERS

AUDIO

STEREO ✓

MONO ✗