



Instructions for operating and installing the EZ-Time-Tones



Description:

- **The EZ-Time-Tone kit is a made in the USA, computer controlled, atomic timed audible event activation all in one kit.**
- Included in kit:
 - ([Custom](#)) EZ-Time software installed, Dell Inspiron windows7 Pro, I-5, 4460 3.4Ghz, computer with dual serial output card, monitor, keyboard,
 - Control Module ([CM-1](#)) with 120-240VAC to 24 VDC @ 1000mA. CUS, UL listed, complies with FCC standards power supply wall adapter.
 - 25 ft. BD-9 data cable to go from EZ-Time computer serial port to CM-1
 - Relay-Horn Driver ([DC-RM-HD-1](#)). It is a [RM-1](#), [DC-Horn Driver-1](#), Power Supply, all mounted in a steel powder coated enclosure.
 - 8 Ohm, 50 Watt horn ([DC-Horn-8](#)).
- Customer to supply:
 - Power:
 - (1) 120VAC, 50/60 hertz isolated and grounded 15 amp outlet for computer system
 - (1) 120VAC, 50/60 hertz isolated and grounded 15 amp outlet for CM-1
 - (1) 120VAC, 50/60 hertz isolated and grounded 15 amp outlet for DC-RM-HD-1
 - Cabling:
 - (1) Pair twisted unshielded 22Ga.data cable from CM-1 to DC-RM-HD-1 (not to exceed 1000Ft.)
 - (1) Pair 18Ga. audio cable from DC-RM-HD-1 to DC-Horn-8



Description continued:

- Internal power supply for DC-RM-HD-1: 12V 1.1 Amp CUS, RU ,CE listed switching power supply
- Mounting:
 - Computer and CM-1 desktop
 - DC-RM-HD-1 and speaker are wall mountable
- Enclosure:
 - DC-RM-HD-1: (Steel) 11.25 Inches wide x 11.25 Inches tall x 3.5 Inches deep.
 - CM-1: Flame proof PVC enclosure 3.25 Inches wide x 1.5 Inches tall x 6.25 Inches deep
- Weight: Entire Kit: 30lbs,
 - DC-RM-HD-1: 10 lbs.,
 - CM-1: 1 lbs.,
 - DC-Horn-8: 5lbs.
- Finish: DC-HD-1: Tan textured (finger print resistant) powder coat finish. CM-1: White
- Computer output and system data rate: 9600 baud, 8 N 1
- Controls: EZ-Time software (loaded on the computer system) with dual serial port outputs (only 1 is required) to CM-1
- Connections:
 - Computer: Keyboard, Mouse, DB-9 cable dual serial card to CM-1 and power
 - CM-1: DB-9 cable to serial output card on the back of computer
 - DC-RM-HD-1:
 - Input: From CM-1 (1pair, 22 ga. wiring) terminal block.
 - Output: To DC-Horn-8 (1 Pair, 18 Ga. audio wiring) terminal block.

Installation:

Connections: Make the following connections before applying power to the EZ-Time-Tone kit.

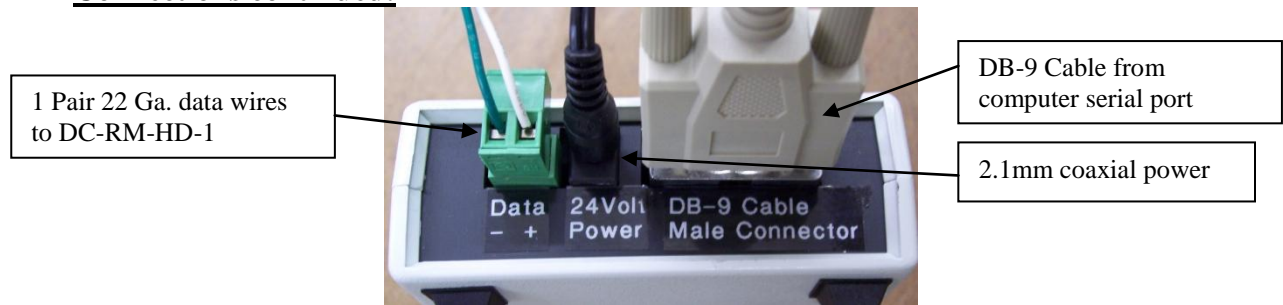
Computer:

- Keyboard, mouse and monitor
- 25Ft. DB-9 cable to (1) of the computer dual serial outputs to the CM-1's DB-9 connector
- Power.

CM-1: See photo below

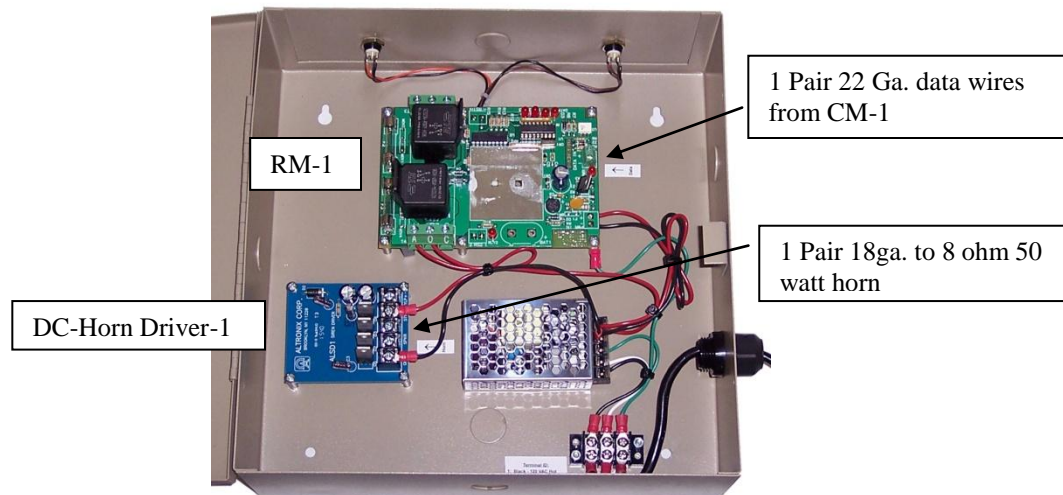
- 1 Pair 22 ga. wires Data + and - to the DC-RM-HD-1's Data + and -
- 25ft DB-9 cable to one of the computer's dual serial outputs
- Power (24VDC 1000ma wall adapter)

Connections continued:



DC-RM-HD-1: See photo below.

- 1 Pair 22 ga. wires from the CM-1's Data + and -
- 1 Pair 18 ga, wires from the DC-Horn Driver-1 to DC-Horn-8



Note: Do not exceed 1000 feet of 22ga Data wire between the CM-1 and the DC-RM-HD-1.

Operation: If all of the cabling has been checked and connected properly then apply power at this time to the computer, the CM-1 and the DC-RM-HD-1.

LED indicators: There are several LED's indicators follows: (See photo below)

- CM-1:

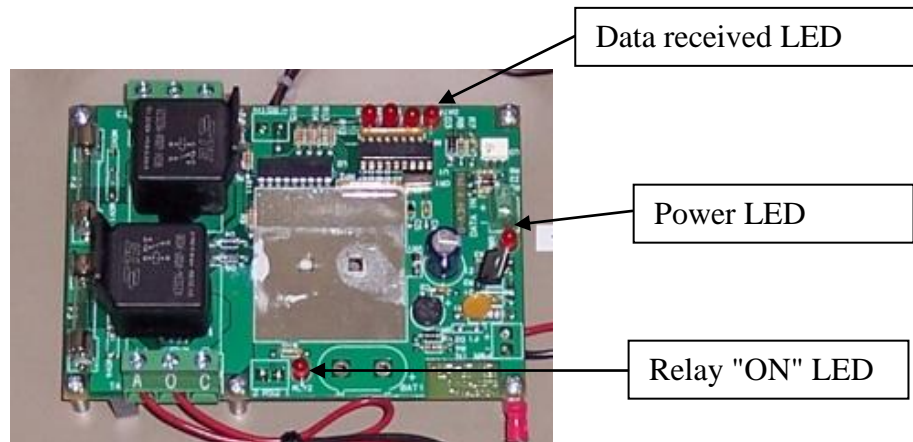


Green LED = Power LED

Red LED = Data LED received and sent out again (flashes when data is received and then sent, should not stay on steady)

LED indicators continued:

- DC-RM-HD-1:



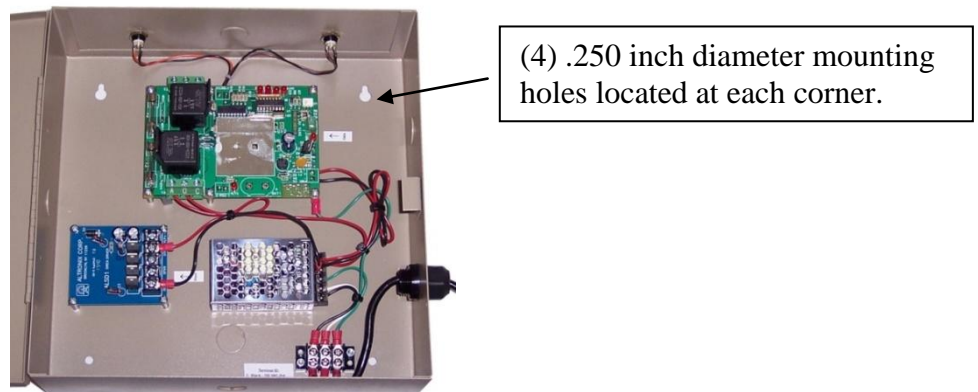
- Please see the [EZ-Time Software manual](#) for programming bells into the EZ-Time computer system.
- Please see the [CM-1 manual](#) for further information.
- Please see the [RM-1 manual](#) (installed into the [DC-RM-HD-1](#)) for further information.
- Please see the [DC-Horn Driver-1 manual](#) (horn driver that is installed into the DC-RM-HD-1) for further information.
- Please see the [DC-Horn-8 manual](#) for further information.

Mounting CM-1:

The CM-1 is a desktop mount electronic device that requires occasional viewing for status. Mount the CM-1 in a dry, clean, and cool area within 25 feet of the EZ-Time computer.

Mounting DC-RM-HD-1:

Mount the DC-RM-HD-1 in a dry, clean, and cool area. Utilize the (4) .250 predrilled holes near the corners of the enclosure for mounting. Use anchors and screws that will sustain the weight accordingly.



For further questions please contact Industrial Electronic Service D.B.A. DC-Digital @ 937-746-9750 or visit us @ www.dc-digital.com.