



## A 1740 MP3 Tone Generator & Message Player

# OPERATING INSTRUCTIONS



The A 1740 is an MP3 based message player and tone generator designed for public address, security, customer direction or emergency evacuation announcements.

## Installation

**Power requirements:** The A 1740 needs a minimum of 8VDC at 300mA to work correctly. Maximum working voltage is 30VDC, do not exceed 30VDC as it will cause permanent damage to the unit. A good working voltage is between 12 and 24VDC. The power is connected via the 2.1mm (tip positive) DC socket on the rear of the unit (see fig 1).

**Output:** Output is via the stereo RCA connectors on the rear. Output level is nominal 500mV but is related to the recorded level of the MP3.

**Input triggers:** The input triggers are activated by closing contacts whether by a normally open switch or a timer or controller.

**Switched output:** The switched output terminal is triggered when any zone is activated. The voltage is the same as the power supplied to the unit. ie if the A 1740 is powered by 12V the switched output voltage will be 12V.

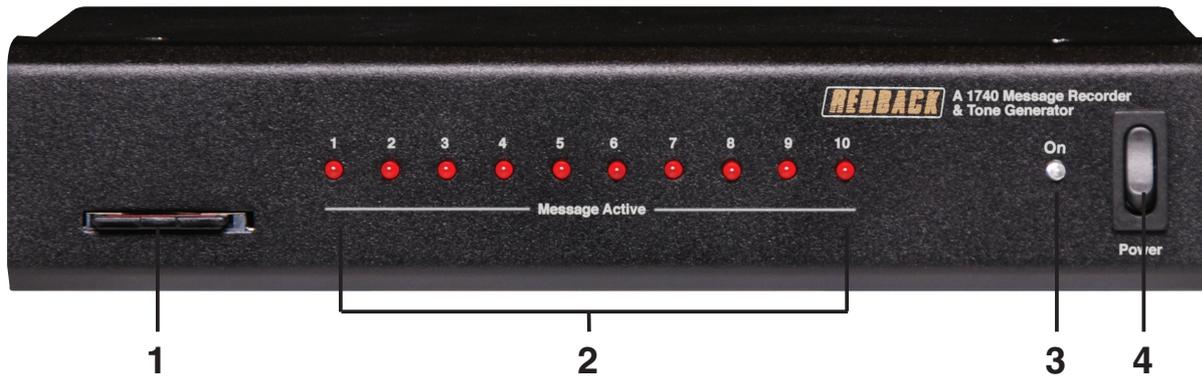
## Play modes

**Alternate:** When the A 1740 is in Alternate mode (DIP1 switch1 OFF) (see fig 1) the closing contact must be held for the duration of the MP3 play time, if it is released before the MP3 ends the MP3 will stop playing immediately. If the contact is held closed continually the MP3 will continue to loop over and over until the contact is released.

**Momentary:** In Momentary mode (DIP1 switch1 ON) (see fig 1) a momentary closing contact or pulse on the trigger pins will activate the MP3. The A 1740 will continue to play the MP3 till it finishes and will stop playing and wait for another trigger activation.

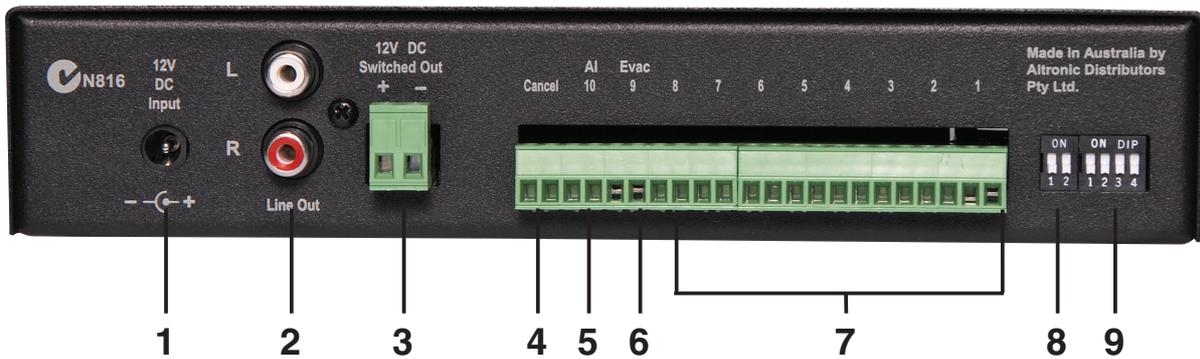
To stop an MP3 playing when in Momentary mode the Cancel trigger is used. A momentary closing contact on the Cancel trigger will stop the MP3 playing (it is recommended that the Cancel contact be held up to 2 seconds to ensure the MP3 stops playing).

**Figure 1. A 1740 Front & Rear Panels**



**FRONT PANEL**

- 1. SD card slot (max 2GB)
- 2. Message active LED's 1-10
- 3. Power LED
- 4. Power ON/OFF switch



**REAR PANEL**

- 1. 12VDC Input (2.1mm tip positive)
  - 2. RCA Line output
  - 3. 12V DC switched output
  - 4. Cancel contacts
  - 5. Alert (10) contacts
  - 6. Evac (9) contacts
  - 7. Message contacts 1-8
  - 8. DIP switch 1
  - 9. DIP switch 2
- Note: See table 1 & 2 for DIP switch setup

**Putting MP3's on to the player**

You will first need to remove power from the A 1740 then remove the SD card from the front of the A 1740. To remove the SD card push the card in and it will eject itself.

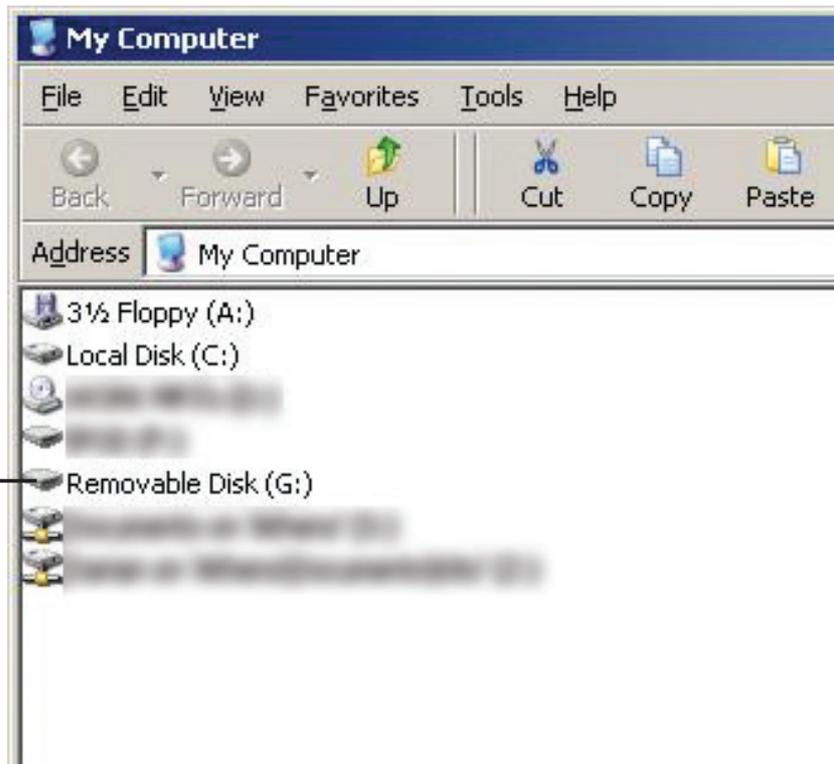
The SD card will then need to be connected to a PC (Windows XP or Vista recommended). You will need a PC equipped with a SD card reader to do this (not supplied).

**Step by step guide to put a MP3 into Trigger1 with Windows XP installed PC**

**Step 1:** Make sure the PC is on and card reader connected and correctly installed. Then insert the SD card into the reader.

**Step 2:** Go to "My Computer" (figure 2) and open the SD card which is usually marked "Removable disk". In this case it is named "Removable disk (G:)"

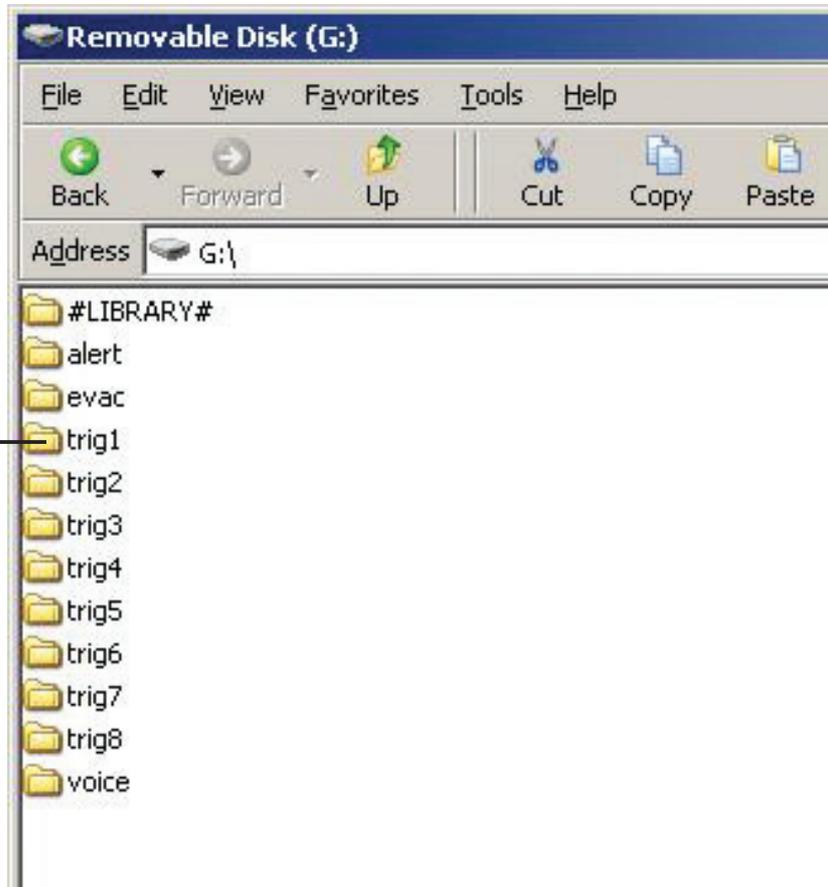
Figure 2.



Open  
Removable Disk

You should get a window that looks like figure 3.

Figure 3.

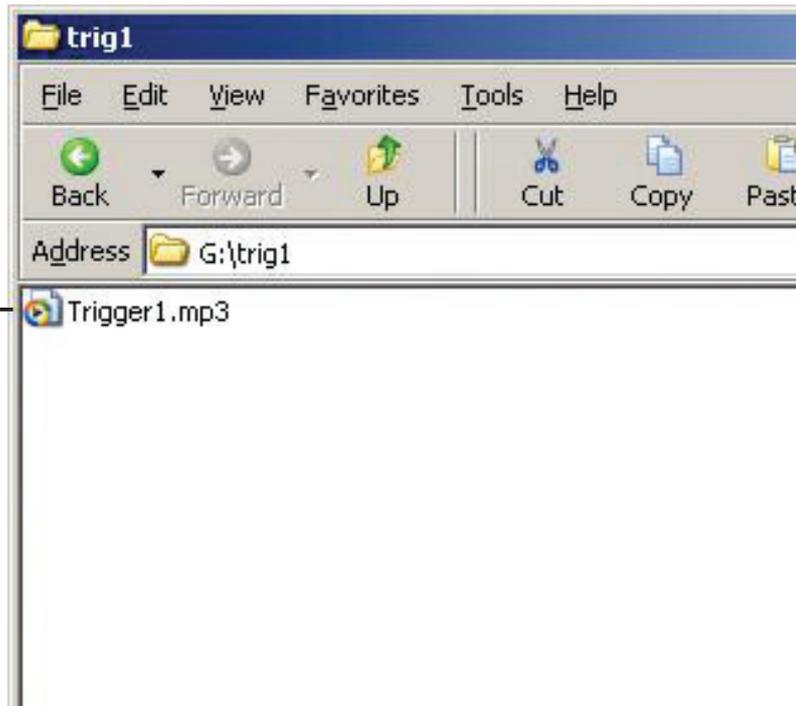


Trigger 1 folder

**Step 3:** Open folder named “trig1” you should get a window that looks like figure 4..

**Figure 4.**

Delete this file and replace it with a new MP3.

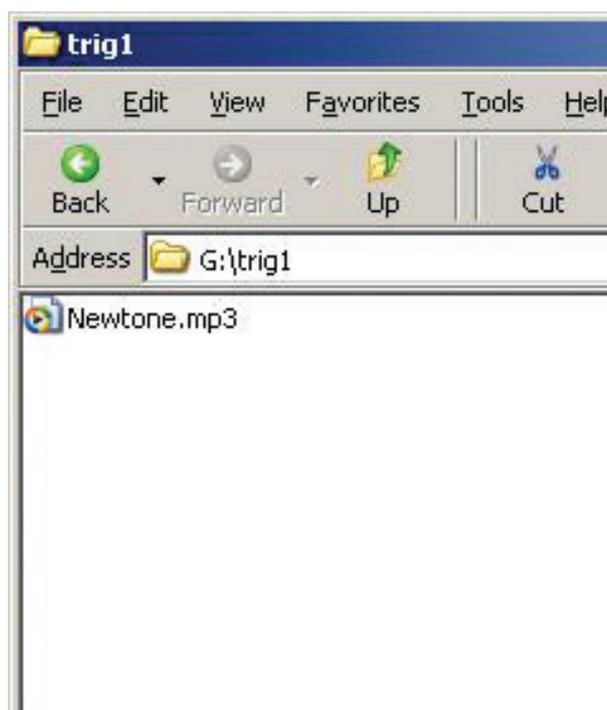


**Step 4:** You should see an MP3 file XXXXXX.MP3 if you have never changed the trigger1 MP3 file then it will be named Trigger1.MP3.

This MP3 file needs to be deleted and replaced by the MP3 file you want to play when you activate trigger1. The MP3 file name is not important only that there is one MP3 file in the trig1 folder. Make sure you delete the old MP3!

The folder should look something like figure 5a.

NOTE the new MP3 file cannot be “Read only” to check this right click on the MP3 file and scroll down and select Properties, you will get a window that looks like figure 5b. Make sure the “Read Only” box has no tick in it.



**Figure 5a.**

The new MP3 is now installed on the card and the card can be removed from the PC following windows safe card removal procedures. Make sure the A 1740 is OFF and insert the SD card into the slot in the front; it will click when fully inserted. The A 1740 is ready to go on Trigger1.

Repeat these steps for Trigger2 to Trigger8 if you need to.

**Please note: that the ALERT and EVAC folders and the MP3 files inside these folders should not be deleted or renamed in anyway this will cause the A 1740 to stop responding.**

## Emergency tones (Alert and Evacuation)

The Alert and evacuation tones conform to Australian Standards AS1670.4 and are used to notify building occupants of an emergency situation.

**Alert:** The Alert tone is activated by a closing contact on the ALERT trigger (Trigger10) and can be used in Alternate or Momentary setup as mentioned. The Alert tone comes with a change over option which forces the A 1740 to switch from Alert to the Evacuation tone after a prescribed time. Use DIP2 switch 1 to 4 adjust this time or switch off completely (see table 2).

**Evacuation:** The Evacuation tone is activated by a closing contact on the Evac trigger (Trigger9) and can be used in Alternate or Momentary setup as mentioned early in the instructions.

**Evacuation message:** A message (repeated twice) can be inserted every three evacuation cycles as per the Australian Standards. Voice message could be something like “please evacuate the building by the closest exit”. To install a Evacuation message on the A 1740 follow the Step by step guide to put a MP3 into Trigger1 with Windows XP installed PC but replace Trigger1 with Voice i.e. put the message into the Voice folder on the SD card and delete any other MP3 file located in the voice folder.

**Priority:** The Emergency tones have priority over other triggers (1 to 8) and if activated will stop any other MP3 and activate the selected emergency tone. Evacuation also has priority over Alert.

## Troubleshooting

### NO Power (Power LED does not illuminate):

Check power supply DC jack is 2.1mm and not 2.5mm size.

Power supply voltage is 8-30VDC.

Power supply is a DC output, not AC.

### Message active 10 LED flashes all the time:

This is an indicator that the SD card is not inserted correctly or is not formatted. Make sure all folders on the SD card are as per figure 3

### Emergency tones do not work:

Switch DIP1 switch 2 ON to activate emergency tones.

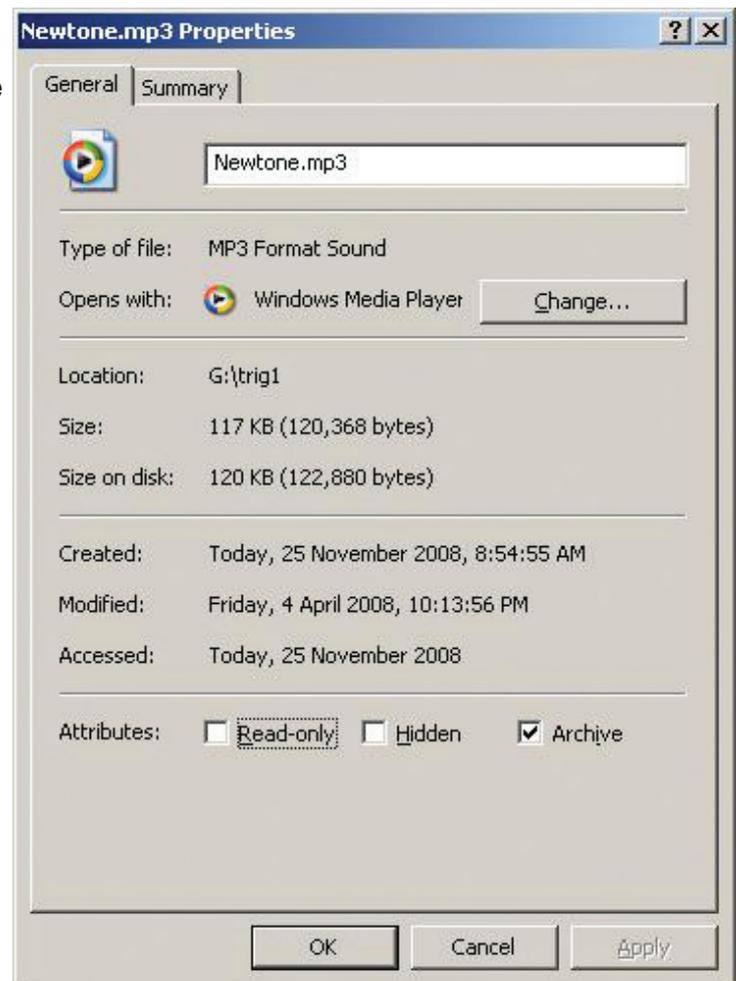


Figure 5b.

**Play Mode & Tone Selection**

**Table 1: DIP1 Switch Settings**

Switch 1	ON: Momentary OFF: Alternate
Switch 2	ON: Emergency Tones ON OFF: Emergency Tones OFF

**Alert/Evac Switchover Time**

**Table 2: DIP2 Switch Settings**

	DIP Switch			
	1	2	3	4
OFF	OFF	OFF	OFF	OFF
30 sec	ON	OFF	OFF	OFF
60 sec	OFF	ON	OFF	OFF
90 sec	ON	ON	OFF	OFF
120 sec	OFF	OFF	ON	OFF
150 sec	ON	OFF	ON	OFF
180 sec	OFF	ON	ON	OFF
210 sec	ON	ON	ON	OFF
240 sec	OFF	OFF	OFF	ON
270 sec	ON	OFF	OFF	ON
300 sec	OFF	ON	OFF	ON
330 sec	ON	ON	OFF	ON
360 sec	OFF	OFF	ON	ON
390 sec	ON	OFF	ON	ON
420 sec	OFF	ON	ON	ON
450 sec	ON	ON	ON	ON

**Specifications**

Power supply: .....8VDC to 30VDC 300mA (idle/maximum current draw 150mA) tip positive  
 Output: .....Stereo RCA 500mV nominal  
 MP3 sample rate: .....44kHz  
 SD card size: .....256MB to 2GB (not compatible with SDHC cards.)  
 Trigger activation: .....Closing contact  
 Switched output: .....12-24VDC out (supply voltage dependant)

**MP3 info:**

Length/size: .....Limited by card size (100mins @ 128kbps, 44kHz on supplied 1GB)  
 Bit rate: .....All standard MP3 rates (128kbps recommended)  
 Sample rate: .....All standard MP3 rates (44kHz recommended)  
 Channels: .....Stereo or mono