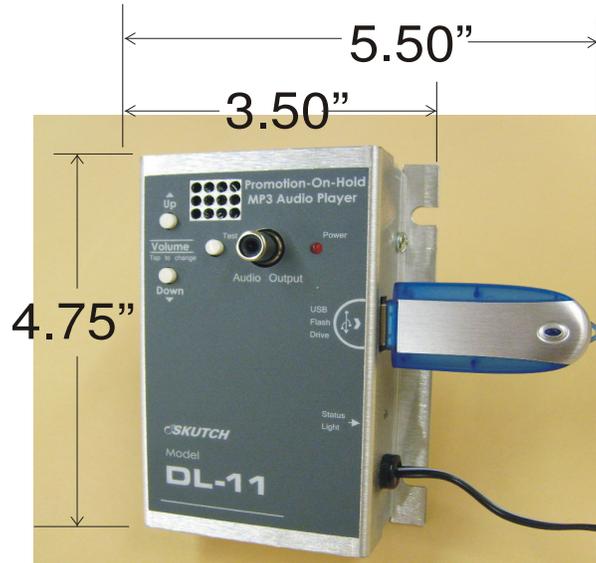




“Telecommunication Products to solve Telecommunication Problems”  
9/28/2010

## DL-11 Technical Information



S/N B0043513 and above

Size: See above

Length of Power cord (Power Cube) = 5 Ft.

Weight in box = 1.10 lbs

### Accessories that come with unit:

One RCA Male to RCA Male, 5 ft cable

One RCA Female to 1/8" Phone Male, Adapter

One 128MByte USB Flash Drive

One DL-11 Operation Manual

Two #8, Phillips-Pan Head, 1 inch, sheet metal screws

### Power Requirements:

Input Voltage = 120VAC 60Hz

AC Input Current = 27mA

Input Power = 3.10 Watts

### Audio Specifications

Audio Output = RCA Female Jack

Audio Output Power = Approximately 200mW  
Output Impedance = 8 ohm (Will work with 600 ohm also)  
Volume Steps = 64 (1 step per depression of switch) Must TAP on button to make a change.

## **Frequency Response:**

At 600 ohm load: 10Hz to 20,000 Hz  
At 10 ohm load: 130Hz to 20,000 Hz

(( Test audio was generated at a -6DB level. Test audio was recorded using a 44,100 Hertz sample rate, 16 bit, to a WAV file. Then it was converted to an MP3 at 44,100 Hertz sample rate, 128KBPS, format and placed into the DL-11 for testing. The output load on the DL-11 was a 100% resistive load.))

## **MP3 Compatible Formats**

The DL-11 is compatible with all known MP3 formats. Can use either Fixed or Variable Rate.

## **Playing Multiple MP3 Files**

Normally you would store only one MP3 audio file on the DL-11 USB Flash drive. In this case the DL-11 will repeatedly play this single MP3 file over and over again. If you place multiple MP3 files on the USB Flash drive, the DL-11 will play the first file that was copied to the USB Flash drive, followed by the second, and so forth, until all files have been played. Once the DL-11 has played the last file, it will repeat the sequence over and over again. If you wish to control the order in which the files play, simply perform a high level format on the USB Flash drive, and save the audio files to the USB Drive in the order that you wish them to be played. They will not play in alpha-numeric order.

## **Multi-Messages**

You can store up to 20, six minute audio productions on the 128MB flash drive. The DL-11 allows you to easily switch between these messages. The first step is to store multiple MP3 files on the Flash Drive. This must be done from an external computer. Once the files are stored, put the Flash Drive back into the DL-11 and perform the first Multi-Message Switching operation. When this is done, the DL-11 will leave the first file as an MP3 extension, then will rename all the other MP3 files with an "MPP" extension. This will disable them from being played. If the original file names are longer than 8 characters, then the DL-11 will rename your files based on the DOS 8.3 platform. For example a file named "Christmas Special Message.MP3", would be relabeled "Christ~1.MPP".

## Switching Between Productions

1- While the current production is playing, hold down both the UP and DOWN Volume buttons, at first the GREEN light will turn on steady and the playback will stop. After about 4 seconds, the GREEN LED will start to flash, then release. The number of times that the GREEN LED flashes, indicates how many productions are currently stored on the Flash Drive.

2- Press down the TEST button to verify if this is the desired promotion. If not, simply repeat step one and two, until the desired promotion is selected.

### Notes:

1- If you release the buttons before the GREEN LED starts to Flash, it simply RESETS the DL-11 with the current production.

2- The DL-11 accomplishes multi-messaging by renaming the files stored on the Flash Drive. The selected production will have an "MP3" extension, while a non-selected production will have an "MPP" file extension. If you wish to supply your customer with a FLASH Drive with several productions on it, then rename the files that you do not want to play with the extension "MPP".

## Recommended Recording Procedures:

1- Record final mix of production audio into a WAV file at 44,100 Hertz sample rate, 16 bit.

2- Store in WAV format for future editing purposes.

3- Convert WAV file to MP3 format at 44,100 Hertz sampling at 128KBPS. Then put on USB Flash Drive. Make sure you delete the old MP3 audio file.

## USB Flash Drive Specifications

Type: USB1.1 or USB2.0

<u>Drive Size</u>	<u>Approx Play Time</u>
32MB	30 Minutes
64MB	1 Hour
128MB	2.13 Hours (Supplied with DL-11)
256MB	4.26 Hours
512MB	8.52 Hours
1 GB	17 Hours
2 GB	34 Hours
4 GB	68 Hours
8 GB	136 Hours

Based on an MP3 file generated at 44,100 Hertz sample rate and 128KBPS.

## **Trouble Shooting**

### **Status Light**

The status LED is located on the right side of the DL-11, below the FASH DRIVE. It is a dual color LED and can be used to diagnose most problems.

#### **Normal Playing**

Status LED flashes Green.

#### **No MP3 File detected on FLASH Drive**

LED repeats the following Sequence over and over again.

GRN ON Steady for 4 seconds, OFF for 2 seconds, then RED/GRN Flash 3 times.

#### **On Power Up, with a Defective USB Flash Drive**

LED flashes RED/GRN 3 times, then stays OFF.

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#### **Reported Problem:**

After Replacing MP3 file with new file, DL-11 continues to play old MP3 file.

#### **Solution:**

Reformat the DL-11 USB Flash drive, then re-copy the MP3 file to the USB Flash Drive.

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#### **Reported Problem:**

DL-11 does not play and FLASH Drive has a known good MP3 file on it.

#### **Solution:**

Unplug DL-11 from power for 10 seconds then re-connect to power. This problem is very rare.

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#### **Reported Problem:**

Can't seem to change the volume.

#### **Solution:**

You must repeatedly tap on the VOL UP and/or VOL DOWN buttons, many times to make a noticeable volume change. Each tap, represents one step. There are a total of 64 volume steps in the volume range. Holding down a button only changes the volume 1 step.

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## **3 YEAR LIMITED WARRANTY**

This SKUTCH PRODUCT is warranted against defects for a period of three (3) years from the date of the original invoice. The USB Flash Drive is not manufactured by us and is warranted against defects for a period of one (1) year from the date of original invoice. Within this period, we will repair it without charge for parts and labor. To obtain warranty service the product must be returned, at the customer's expense, to SKUTCH Electronics along with a copy of the original invoice. After the unit has been repaired, SKUTCH will ship the PRODUCT back via UPS GROUND service at our expense. If any other form of return shipment is requested, the customer will pay for 100% of the shipping cost.

This Warranty does not apply if in the sole opinion of SKUTCH Electronics, the PRODUCT has been damaged by lightning or any other Acts of God, or by accident, misuse, neglect, or improper packing, shipping, modification or servicing by other than an authorized SKUTCH Service Center.

EXCEPT AS SPECIFICALLY PROVIDED IN THIS AGREEMENT, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND IN NO EVENT SHALL SKUTCH ELECTRONICS BE LIABLE FOR LOSS OF PROFITS OR BENEFITS, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER SIMILAR DAMAGES ARISING OUT OF ANY BREACH OF THIS WARRANTY OR OTHERWISE.