



USA DANCE FLOOR

**62.5amp.
DMX512 Power Supply
OWNER'S MANUAL**

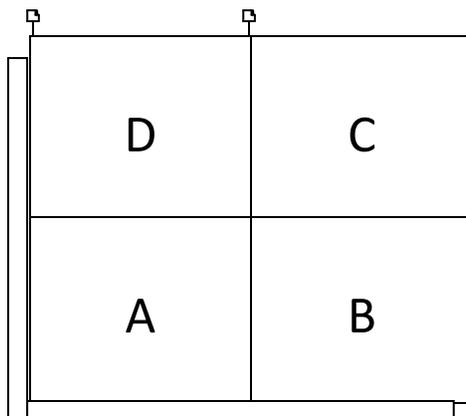




62.5amp. DMX512 Power Supply Instructions

The DMX512 Power Supply turns the USA Dance Floor ARCH dance floor system into a ten channel DMX light fixture that may be controlled by any DMX controller with ten or more channels. The unit can power up to 72 floor panels. Unless otherwise requested, this unit is shipped from the factory with the DMX channels programmed to start at channel one thru ten.

All floor panels are identical. Each panel is 4 feet by 4 feet and has four illuminating quadrants:



Channels 1 thru 3 controls the RGB of quadrants A and C
(CH1=Red, CH2=Green, CH3=Blue)

Channels 4 thru 6 controls the RGB of quadrants B and D
(CH4=Red, CH5=Green, CH6=Blue)

Channels 7 thru 10 controls the on or off of each quadrant
(CH7=QA, CH8=QB, CH9=QC, CH10=QD)

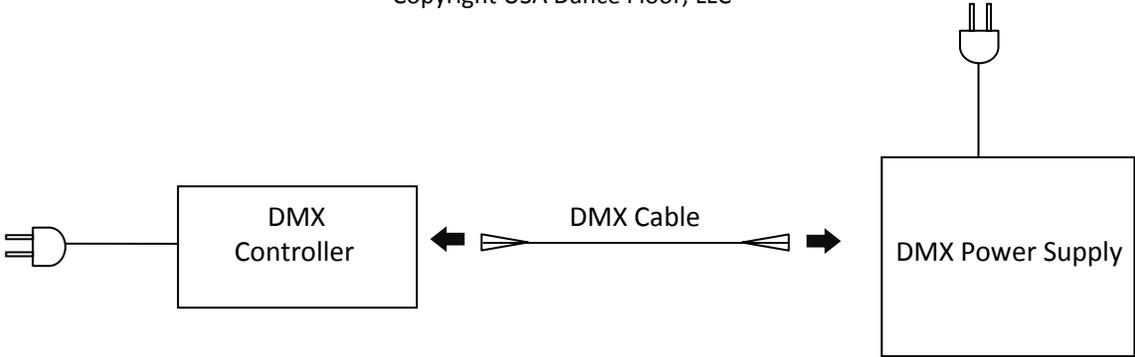
NOTE:

DMX Channels may be programmed or changed by way of internal dipswitches.

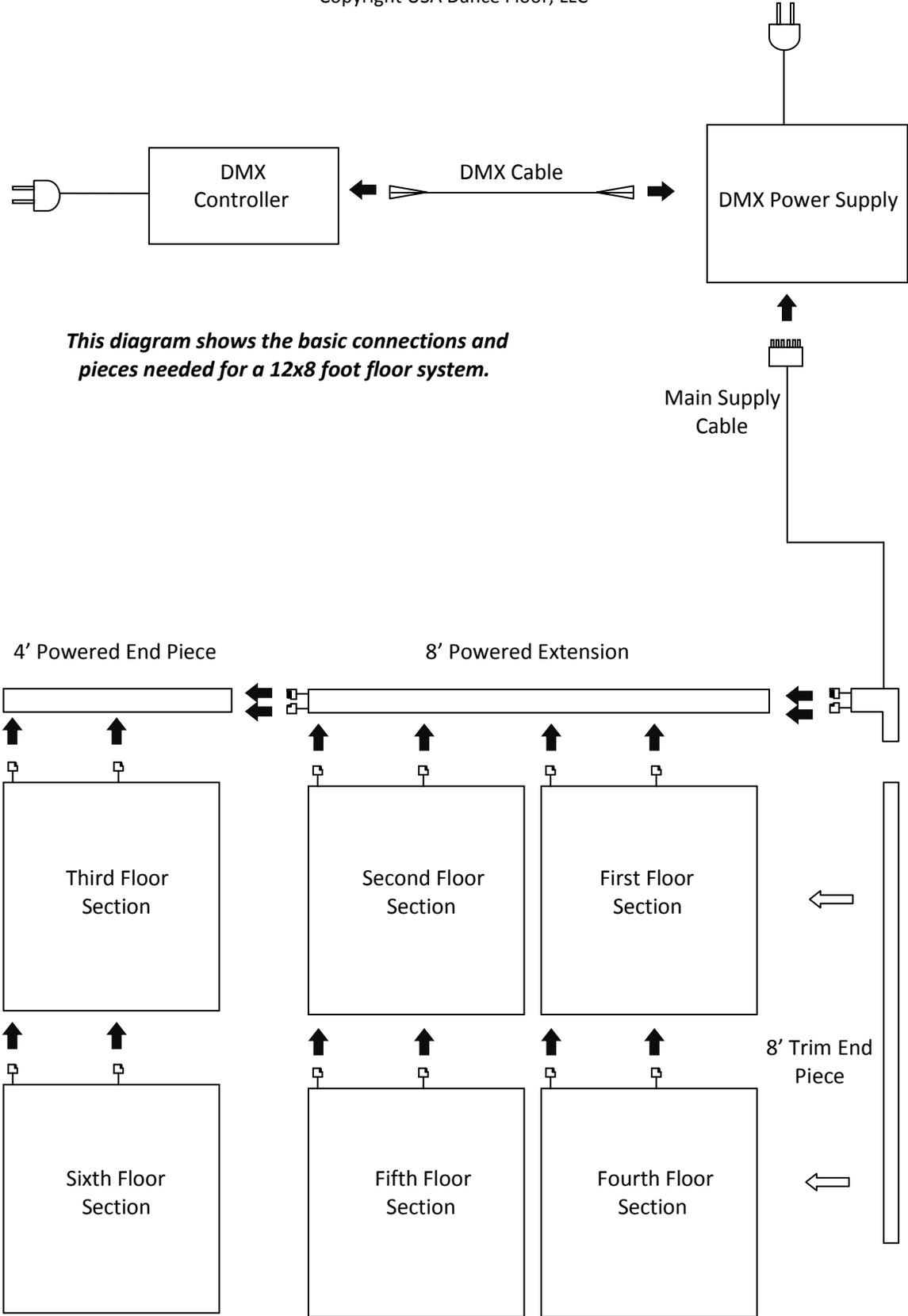
Most models do not come with a DMX output jack.

Basic DMX Connections

The ARCH Portable Lighted Dance Floor System
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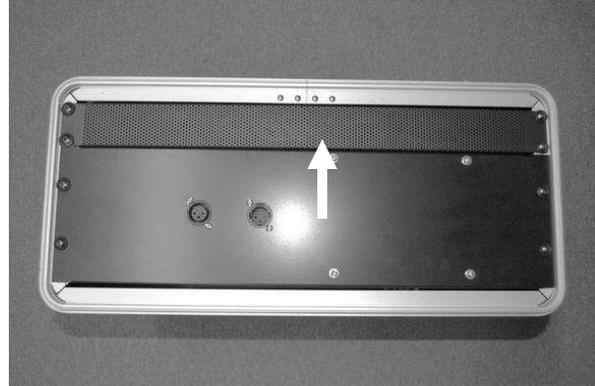
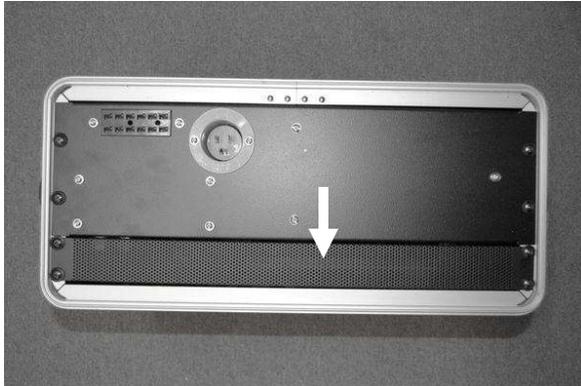


This diagram shows the basic connections and pieces needed for a 12x8 foot floor system.

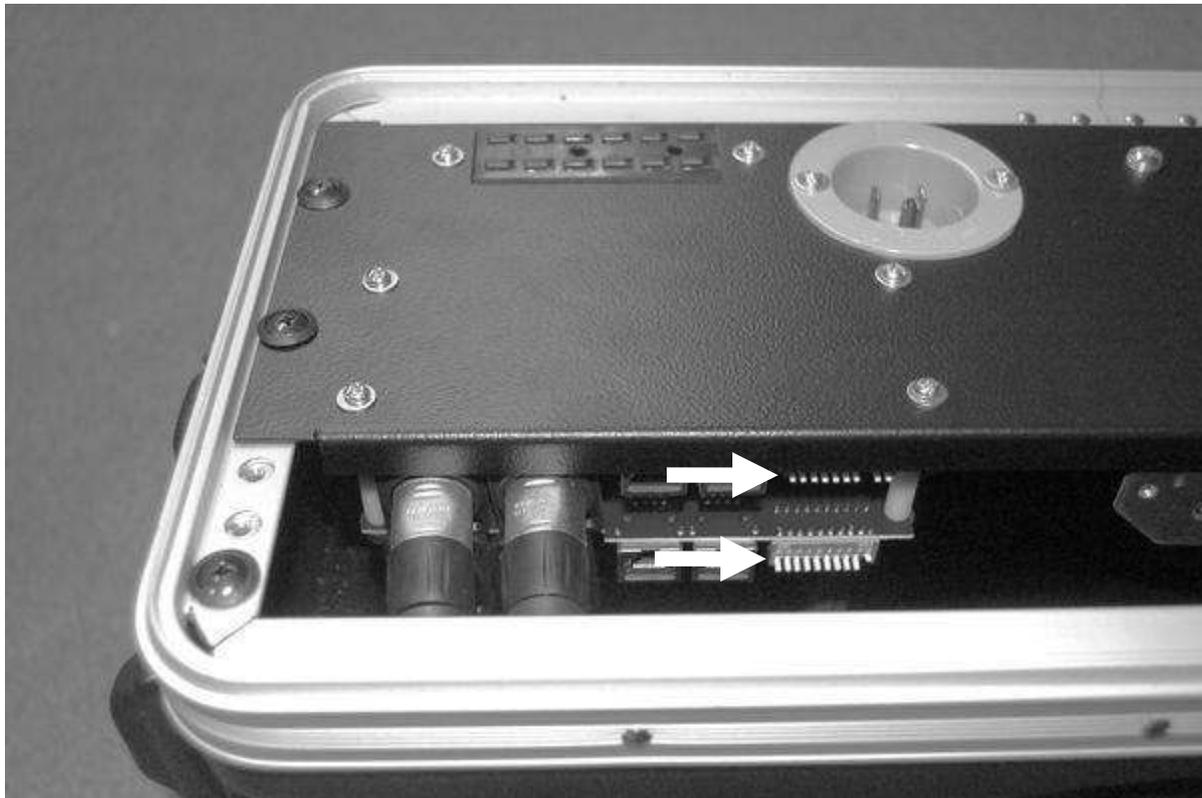


Programming the DMX channels

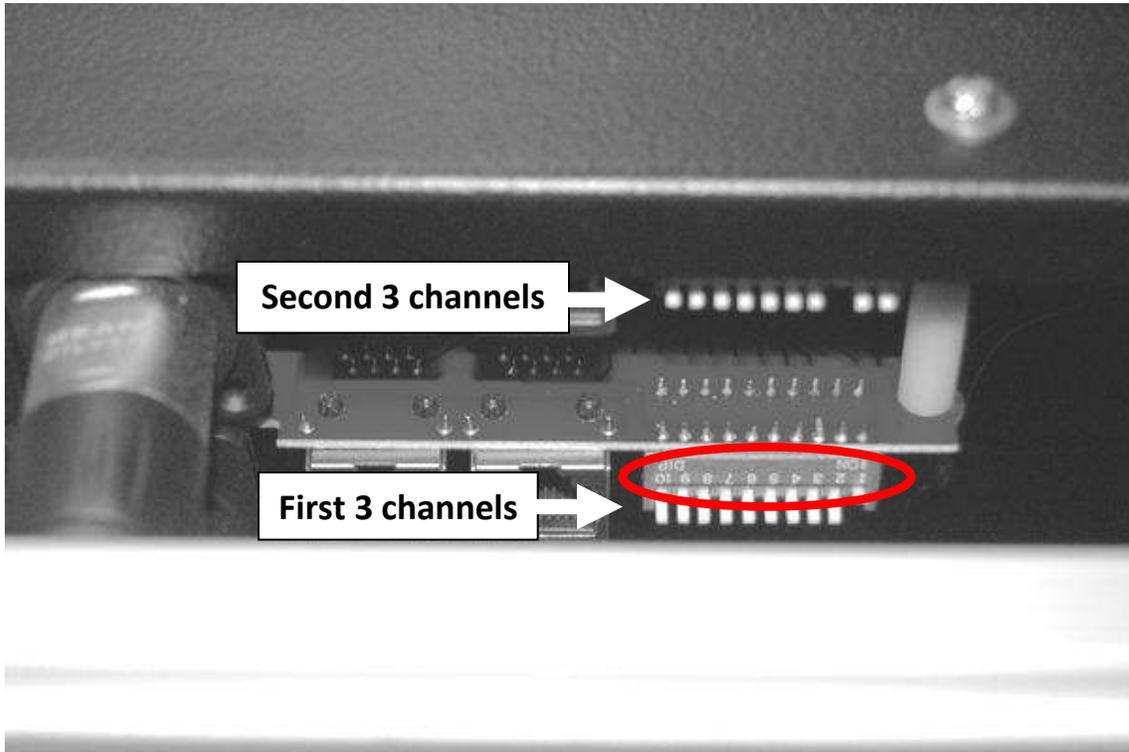
While the dance floor may be controlled by almost any DMX controller with ten or more channels, the controlling channels can be changed or reprogrammed by way of internal dipswitches. To access these switches simply remove both of the rack-mounted vent plates from each side of the unit.



Once the vent plates are removed you will see behind the plate with the AC inlet that there are two sets of dipswitches as pointed out below.



The dipswitches below are shown upside-down so switch #1 starts on your right-hand side. You can see the switch numbers highlighted in the red circled area.

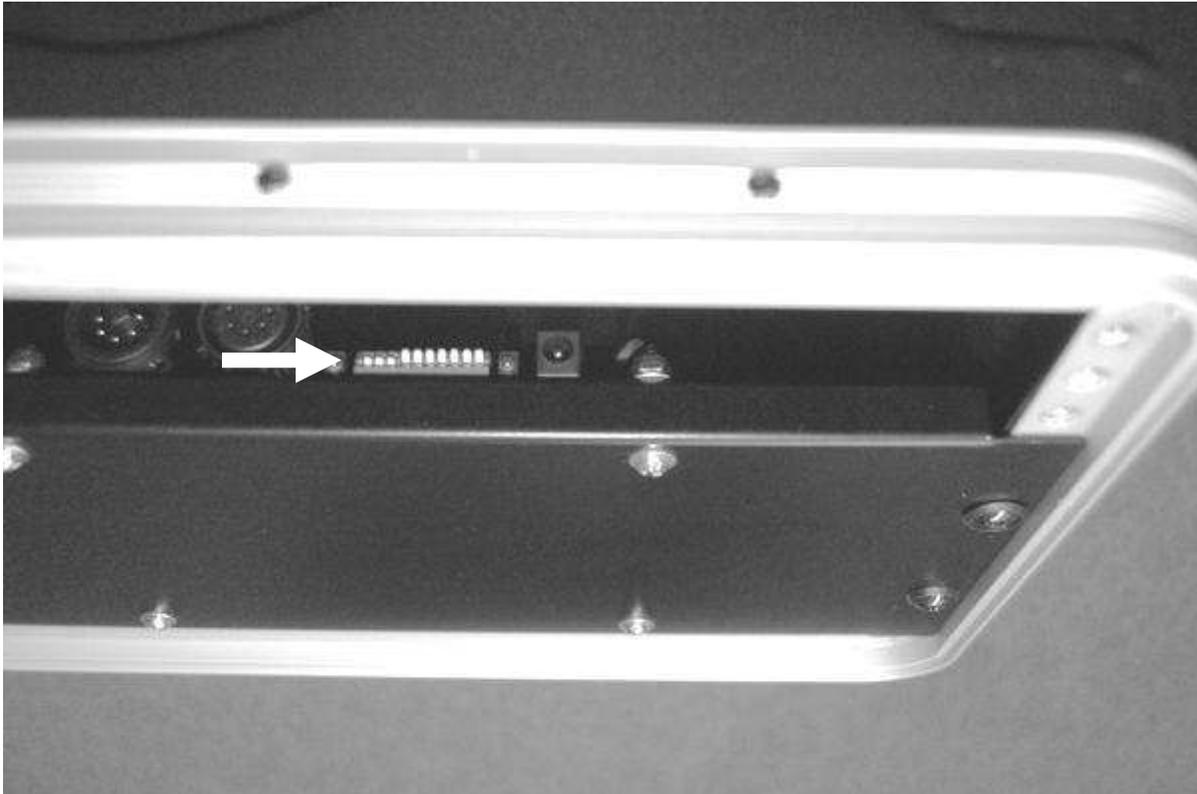


Each set of dipswitches program a 3 (three) channel DMX decoder. The lower decoder controls the first set of RGB channels that control quadrants A and C. (These switches normally start at channel #1 as shown above)
The other decoder controls the second set of RGB channels. This controls quadrants B and D. (These switches normally start at channel #4 as shown above)

Shown below is a third and final set of dipswitches behind the DMX inlet plate.



Below shows the vent cover removed to expose the dipswitches located behind the DMX inlet plate. This last set of dipswitches program a 4 (four) channel DMX decoder. (These switches normally start at channel #7 as pictured here)



This four channel decoder controls the on or off to quadrants A, B, C and D. The floor will not illuminate unless one or all of the four quadrants are at full on or 100%. The switching happens at 85%.

These channels do not have the ability to dim or vary the brightness. Each channel can only be either on or off. Varying brightness or dimming can be done using the RGB channels.

Optional third-party accessories

Ask your USA Dance Floor representative about custom made DMX scenes that can be downloaded into **EntTec's** "DMXIS" lighting control software.



Here is their link:

https://www.enttec.com/?main_menu=Products&pn=70570

Pre-made scenes or programs will include various color effects, chases, strobes and sound activation mode by way of your personal computer's built-in microphones.

With the DMXIS you will also have the ability to edit, add or create your own programs.

Go even further... **EntTec** also offers "Show Buddy" an add-on software program that allows you to program the floor to a sound track timeline. Here is a link for more information:

<http://www.sweetwater.com/store/detail/ShowBuddy?adpos=1t1&creative=83049425401&device=c&matchtype=b&network=g&gclid=C1vI8YLgzMkCFYMDaQodmIUHGQ>

USA Dance Floor does offer a complete system package that includes the DMX Power Supply, DMXIS hardware, software and pre-made programs. Ask your USA Dance Floor service representative.

USA Dance Floor, LLC is in no way affiliated with **EntTec**.

Power Specifications

POWER INPUT:

Voltage range: 90 – 264VAC

Frequency range: 47 -63Hz

POWER OUTPUT (to the floor panels):

Voltage output: 12VDC

Current range: 0 – 62.5amps.

Rated power: 750 watts

Line & Load regulation: 0.5%

RGB FLOOR PANEL LOAD: (at full on)

One panel draws: 14.4 Watts @ 12VDC

Maximum load: 54 floor panels

Sq. footage: 864