

## **Connecting the Distribution Cabinet:**

### Mux Boards:

The Mux Boards are the main electronics of the system. You can insert up to five of them in the front of the Distribution Cabinet to control up to 40 booths. The boards plug into the cabinet from left to right. The slot closest to key pad is Slot one and is where the first board is plugged in.

### DVD's:

With the AV cables, all of the DVD player plug into the back of the Distribution Cabinet into their corresponding channel numbers. Of the two RCA connectors that plug into the DVD player RED-IS-AUDIO.

### Quad Splitter:

Inputs to the Quad Splitter come from the Mux Board farthest from the key-pad

Quadrant 1 = Mux board port 4

Quadrant 2 = Mux board port 5

Quadrant 3 = Mux board port 6

Quadrant 4 = Mux board port 7

Output of the Quad Splitter plugs into the Distribution Cabinet on the same panel as all of the DVD's. Its' connector has "QUAD" written next to it.

### Alarm Box:

The Alarm Box is connected to the Distribution Cabinet with the gray cable with 9pin connectors on each end. The cable cannot be connected backwards, so connect either connector to the Alarm Box and the other connector to the back of the Distribution Cabinet to the lower of the two D shaped 9 pin connectors.

### Monitoring Station:

The monitoring Station is just the Remote Board from a booth and has a short harness connected to it with three buttons; Channel Up, Down and Coin(to start the movie playing) It is used to check if the DVD players are playing correctly(not a frozen picture or has poor picture quality) The Monitoring Station connects to the Distribution Cabinet with a short(5') Distribution Cabinet to Booth cable. The monitoring station does not get installed in a booth. It is attached to the bottom of the shelf of the Distribution Cabinet and the three buttons are poked through three of the three holes of a rivet type shelving unit. The Distribution Cabinet cable Connects to the center D shaped 15 pin connector on the Remote Board. The other end of the cable connects to Mux Board furthest away from the key pad and in to the lowest connector.

### Booths:

The Remote Bill Acceptor enclosures are connected to the booths with the thick black Distribution Cabinet to Booth Cables. Both ends of the cable are the same and cannot be connected backwards.(none of the cables in the system can be connected backwards)

For Booth #1 One end of the cable connects to the top connector of the first Mux board. The other end of the connector connects to the center connector on the top edge of the Remote Board in the Bill Acceptor enclosure.

#### Very Important:

Care must be taken while connecting these cables because the pins and connectors on the end of the cable are fragile. Do not twist the connector on the end of the cable to make it line up with the connector on the boards. Instead of twisting the connector twist the cable about a foot away from the end of the cable to get them to line up. When actually plugging the cable into the board, make sure it is lined up straight and goes in smoothly. The two screws must be tightened for the system not to have strange problems later. In addition to not twisting the connector on the end of the cable must be kept straight with the connector for a few inches from the cable before being bent to go where ever it needs to go. Once the cable is in-place use stick downs and wire ties to keep it there.

#### Booth In-Use Light

It connects to a connector on the bottom edge of the Remote Board in the Bill Acceptor enclosure that has In-Use written under it. The Remote Board In-Use Light Connector has three straight pins the stick straight out of the board. It outputs 12v DC to light a 12 volt light bulb (light bulb part #658 or 161) A 12v relay can be connected in parallel with the light bulb to turn on and off other devices in the booth, like an overhead fan. If a relay with a real coil is used connect a diode in parallel with to reduce spikes when it is de-energizes.

#### TV:

The TV is connected to the Remote Board in the Bill Acceptor enclosure with an AV cable(~12' long) that has two RCA connectors on each end. The Primary TV's Video input connects to the lower RCA connector on the Remote Board. The Quad TV's video input connects to the upper RCA connector. The center RCA connector is left empty, it is an Audio output that you do not need to connect to anything.