The LCD Controllers

AF1000 LCD CONTROLLER
EMULATOR LCD CONTROLLER
CYBERLIGHT LCD CONTROLLER
TECHNOBEAM LCD CONTROLLER
INTELLABEAM LCD CONTROLLER
STUDIO COLOR LCD CONTROLLER
LCD Controllers Offer:

- Product-specific programming control
- Ability to create complex lighting scenes and sequences
- Playback of cues with the touch of a button
- Storage and Transfer of shows using a removable memory card or by serial communication

Overview of LCD Controllers

- 9 memories
  - (6 Memories for EMULATOR LCD CONTROLLER)
- 99 Pages in each memory
- Up to 1023 Possible Presets
- Create Static Scenes (Pages)
- Create Sequences (Pages that Loop)
- RAM Card Backup
- 12 Submasters
- 8 User-Programmable Macros
- Audio Input Jack
- Analog Input Connectors
- Midi In and Thru Ports
- Master/Slave Capabilities
Agenda

- Front & Rear Panel
- Programming Quick Start
- Advanced Features
- Additional Programming Features
- Menu Features
- Remote Access Control

Hands On Exercise

- Power up the Controller
  - The STANDBY LED will be on; this is the DEFAULT mode upon startup of Controller
- Toggle the Standby Key OFF

DO NOT touch JOYSTICK upon powering up controller due to initialization procedure
LCD Controller
Hardware

- Front Panel Overview

LCD Controller Front Panel

- Power Keyswitch
- Slave Mode Indicator LED
- Standby Key
- Address/Preset Select Key
- Address/Preset Keypad
- LCD Window
- Construct (Up/Down) Keys
- Construct Keys
- LCD Power Keyswitch
LCD Controller Front Panel

- Menu Key
- Cursor Up/Down Left/Right Arrow Keys
- Page Up/Down Arrow Keys
- Joystick
- Erase Key
- Record Key
- Select Key
- Home Key

LCD Controller Front Panel

- Auto Advance Key
- Rate Knob
- Audio Level Indicator LED
- Audio Knob
- User Keys
LCD Controller
Hardware

• Rear Panel Overview

LCD Controller Rear Panel

• Data Link Out
• Personality DIP Switches
• RS232 Serial Port
• Midi IN & OUT Ports
• Master/Slave Jacks
Data Link Out

- 3 PIN XLR
  - Pin 1=Shield
  - Pin 2=Negative
  - Pin 3=Positive
- Daisy Chain all units

Personality DIP Switches

- A side is reserved for future use
- B side defines controller's mode of operation
- Personality B DIP Switch Settings
  - 1-ON=SLAVE MODE
  - 2-NOT USED
  - 3-ON=PRESET ACCESS
  - 4-NOT USED
  - 5-ON=BINARY ACCESS
  - 6-ON=INDEPENDENT
  - 7-NOT USED
  - 8-NOT USED
RS 232 Port

- LWB Backup Program
  - Backup data to a computer
- LCC software hookup to a MAC, PC

MIDI IN & OUT Ports

- Controller supports MIDI SHOW CONTROL “GO” COMMANDS
- Also supports MIDI System Exclusive Backup
- MIDI CUE numbers are one-for one with the Controller's PRESET numbers
- Controller only accepts whole CUE numbers
- MIDI OUT is switchable between OUT & THRU; OUT is DEFAULT.
- When RS 232 PORT is active, MIDI OUT functions as MIDI THRU.
Master/Slave Ports

- 1/4” Stereo Jack
- Link up to 32 SLAVES to one MASTER without using DATA Distributor
- Assign Personality B DIP Switch 1 to either "ON" or "OFF" according to your configuration

Analog Input Connectors

- 8-PIN DIN connector
- Enables remote recall of Memory PAGES or PRESETS using an analog control device
  - Dimmer Console
  - TD12
Remote Enable

- Enable/Disable STANDBY mode from a remote location
- 1/8" Mini Phone Jack

Stereo Audio Input

- 1/4" Stereo Audio Input Jack
Fuse

- 5 mm x 20 mm, 1.5 amp slow blow fuse

Voltage Select

- 115 volts AC
- 230 volts AC
LCD CONTROLLER

Programming Quick Start

Topics:
- Pages
- Address
- Address Mode
- Memories
- Preset Mode
- Presets

Frequently Used Terms

- Fixture
  - The Automated lighting device controlled by an LCD Controller
- Constructs
  - Features of the Fixtures: Gobo, Color, Dim, Gate and Position are examples of Constructs
- Parameters
  - Values for the Constructs
The Page

What is a Page?

- Pages are the building blocks of SCENES
- A Page is one static look specifying CONSTRUCTS for one or more Fixtures
- The LCD Controller has 891 programmable Pages (Cyberlight, Studio Color, Technobeam, AF1000, Intellabeam)

Address Mode/IMP Mode

- To program a PAGE, you must be in ADDRESS MODE
  - Toggle the ADDRESS/PRESET key until the ADDRESS LED is on:

- In ADDRESS MODE you may select an ADDRESS or several ADDRESSES to be edited on the PAGE
- Address Mode is also known as IMP Mode
  - Intensity, Memory, and Page Information is displayed in the LCD Window
What is an Address?

• An ADDRESS is a unique number that you assign to each fixture connected to the controller
  – The number of Addresses an LCD Controller can control is unique to the specific type of fixture you are controlling
• Fixture Addresses are assigned via DIP Switches or Menus on the Fixtures

Selecting an Address

• To select an Address to edit:
  – Press the SELECT Key (located near bottom center of Controller)
  – Press the Address Number Key of the Fixture to be edited
  – The SELECT and Address Number Keys selected will flash simultaneously
• To select a block of Fixtures, use RANGE SELECT
  – Simultaneously press both the highest and lowest numbered address keys of the desired range
NOTE: Pressing SELECT again will abort this action
Editing a Page

Adjusting Constructs

To edit an Address once selected, press the desired Construct Key of the Construct you want to change; Construct Keys are located near the Address Keys and are labeled GOBO, COLOR, DIM, etc.

– NOTE: GATE is defaulted to CLOSED. You must open the gate in order to see the output of the lamp

• Use the CONSTRUCT UP/DOWN Arrow Keys to change the value of the active Construct

Recording a Page

• Make all desired value changes to all Constructs for the selected Fixture

• Press RECORD (located on bottom center of controller) when the value changes are completed for that Fixture
  – NOTE: You must press RECORD after each Fixture is finished; otherwise, when a second Fixture is selected, it will automatically accept all Construct Values of the first Fixture.

• Select the next Address on the Page and continue to adjust Constructs. When finished, press RECORD
Programming a Page

**Review**
To record a PAGE using the 4-STEP method:

- From ADDRESS MODE:
  - 1. Press SELECT
  - 2. Select ADDRESS(ES)
  - 3. EDIT CONSTRUCTS
  - 4. Press RECORD
- You can ABORT at any time before pressing RECORD by pressing the SELECT key again

Hands On Exercise

**Building a Page**

- Program Page 1:
  - Cyberlight in Gobo 2, RGB Yellow, MSpeed 93 with XFade of 1.0 sec
Changing Pages

• To change to another PAGE, press the PAGE UP/DOWN Arrow keys to select the desired PAGE number
  – NOTE: PAGES loop around after 99 back to 1 and from 1 to 99 without having to scroll through all PAGES in between
  – Press and HOLD the PAGE UP/DOWN Arrow key to quickly scroll through the 99 PAGES

Hands On Exercise

**Building a Page**

• Program Page 2
  – Cyberlight in Gobo 2, RGB Cyan, Mspeed 93 with XFade of 1.0 sec. Move image to different position in room.
Pages and Memories

- The LCD Controller’s data storage is sub-divided into 9 sections. Each one of these sections is called a MEMORY
- Each MEMORY contains 99 PAGES
- Press the CURSOR UP/DOWN Arrow Key (located above and below the MENU Key) to select a different MEMORY

![Diagram of LCD Controller Hierarchy]

LCD Controller Hierarchy

LCD Controller Internal Memory

- Memory 1
  - Pages 1-99
- Memory 2
  - Pages 1-99
- Memory 4
  - Pages 1-99
- Memory 5
  - Pages 1-99
- Memory 6
  - Pages 1-99
- Memory 7
  - Pages 1-99
- Memory 8
  - Pages 1-99
- Memory 9
  - Pages 1-99
Hands On Exercise

Building Pages in Different Memories

• Program Page 1 in Memories 2-9 using a different Color and Gobo Combination on each Page for the Cyberlight. Set Mspeed to 95 and XFade for 1.2 sec on each Page

Loops

Recording a Loop

• A LOOP is a SEQUENCE or SERIES of programmed PAGES that runs continuously in a loop when played back
• To record a Loop, first program each PAGE separately
Hands On Exercise

**Building a Loop**

- Program Memory 1 Pages 5-8 using Cyberlight.
  - On each Page chose the same Color and Gobo combination, and set MSpeed to be 94.

**Creating a Loop**

- Every LOOP must be bracketed with a NON-INITIALIZED PAGE before the first recorded PAGE and after the last recorded PAGE of the sequence
- To record a NON-INITIALIZED PAGE (NIP):
  - Press SELECT, ERASE, ERASE
- It is not necessary to record an NIP before Page 1 or after Page 99
- NOTE: all Pages of a Loop must be in the same Memory and in sequential order
Hands On Exercise

**NIP**

- Program an NIP on Memory 1 Pages 4 & 9

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Playing Back a Loop

- Go to any recorded Page between the first and last NIP
- Press AUTO Key
  - Advances PAGES automatically at rate set by RATE KNOB
- Adjust the RATE KNOB

- Delay time programmed into the PAGE is added to the rate set by RATE KNOB
  - Programmed DELAY times are completed before PAGE advancement regardless of the RATE KNOB setting
Hands On Exercise

Running a Loop

• Playback the Loop recorded on Memory 1 Pages 4-8

Recording a Preset

• From ADDRESS Mode, select the PAGE or PAGES to be recorded as a PRESET using PAGE UP/DOWN Arrow keys and Press the Auto Knob
  NOTE:
  SEQUENCES MUST BE RUNNING TO BE RECORDED CORRECTLY
• Toggle to PRESET mode
• Press SELECT
• SELECT the PRESET NUMBER KEY where you want to record
• Press RECORD
Hands On Exercise

**Recording a Preset**
- Record the Loop recorded on Memory 1 Pages 4-8 onto Preset #1
- Record Memory 3 Page 1 onto Preset #2

Preset Playback
- Toggle ADDRESS/PRESET mode key to PRESET mode
- Press the PRESET number key of your choice
- The preset plays back automatically, including the RATE knob setting (Loop)
- There are multiple BANKS of Presets
  - While in Preset Mode, use the Menu Cursor Left/Right Keys to navigate the Banks of Presets
- Total number of Presets=1023
Hands On Exercise

Banks of Presets
- Record Memory 4 Page 1 into Bank 2 Preset # 1

Advanced
Programming
Features
- Position Memories
- Page Copy
- Block Copy
- Address Parameter Copy
- MSpeed for Color and Gobo
- Erasing a Page (Blackout Page)
**Position Memory**

- Allows a PAGE to reference another PAGE for PAN and TILT Position information
- 99 PAGES of Memory 9 are designated as reference pages or POSITION MEMORIES (also called PRESET FOCUSES)
- Assign these positions to a selected address by pressing the POS key, then selecting a position number using the CONSTRUCT Up/Down Arrow Keys

**Hands On Exercise**

*Position Memory 9*

- Record A Position on Memory 9 Pages 1-4
- Re-record Memory 1 Pages 4-8 and change the POS values on each Page to use Positions 1-4
Position Memory 9

• If a Position is changed on a reference PAGE in Memory 9, all PAGES referring to that Position will automatically update

* It is recommended to build all Pages using Positions from Memory 9; this reduces the amount of time necessary in updating all Pages if a Position is changed

Hands On Exercise

*Updating Positions in Memory 9*

• Record a different Position for the Cyberlight on Memory 9 Pages 1-4
• Playback the Preset stored in Bank 1 Preset 1 to see the same Loop but with new Positions
Copying Features

- Entire PAGE to another PAGE in any memory
  - PAGE COPY
- Block of PAGES to another block of PAGES in any memory
  - BLOCK COPY
- Copy parameters of one ADDRESS to another ADDRESS(ES)
  - PARAMETER COPY

Page Copy

- From ADDRESS Mode, choose PAGE to be copied
- Press SELECT
- Use PAGE UP/DOWN keys to select destination PAGE
- Press RECORD

NOTES:
- Use PAGE COPY to quickly get all Construct information for all Fixtures from one PAGE to another
- You may also use PAGE COPY to copy a PAGE from one MEMORY to another
Hands On Exercise

**Page Copy**
- Using Page Copy, copy Memory 2 Page 1 to Memory 2 Page 3
- Change the Gobo on Memory 2 Page 3 and record

**Block Copy**
- From ADDRESS mode, choose any PAGE within the group of pages to be copied
- Press SELECT
- Press the AUTO key 3 times
- Use PAGE UP/DOWN arrow keys to select Destination Page
- Press RECORD
Hands On Exercise

**Block Copy**
- Block Copy Memory 1 Pages 4-8 to Memory 1 Pages 10-13
- Change the Color on the Cyberlight on the newly copied Pages 10-13
- Record an NIP on Memory 1 Page 14
- Record this new Loop to Bank 1 Preset 3

Reverse Block Copy
- Copies the series of Pages in reverse order so that the first Page being copied becomes the last Page after copied
- To execute the Reverse Block Copy, use the same steps to do a Block Copy and then:
  - After selecting the destination Page, press the CONSTRUCT UP/DOWN arrow keys to toggle between COPY and COPY REVERSE
  - Press Record to finish
Hands On Exercise

*Reverse Block Copy*
- Reverse Block Copy Memory 1 Pages 10-13 to Memory 2 Pages 5-8
- Record NIPs on Memory 2 Pages 4 & 9
- Record this new Loop on Bank 1 Preset 4

Address Parameter Copy 1

- Copy Parameters from One Address to Another Address on the **SAME PAGE**
  - Press SELECT
  - Select source ADDRESS
  - Select Construct Parameters to be copied (press the corresponding CONSTRUCT keys)
  - Select destination ADDRESS(ES)
  - Press RECORD
Hands On Exercise

**Address Parameter Copy on Same Page**

- Using Address Parameter Copy, copy Cyberlight Constructs of Address 1 to Address 2

**Address Parameter Copy 2**

- Copy **Selected Addresses from One Page to Another Page**
  - Select source ADDRESSES to be copied
  - Press the PAGE UP/DOWN keys and select the destination PAGE
  - Press RECORD
- This applies ONLY when the controller is set for "SHARE ALL CONSTRUCTS UNTIL SELECTED" from the EDIT/COPY menu item
Hands On Exercise

*Address Parameter Copy of Same Address to Different Page*

- Copy all Cyberlight Constructs for Address #2 of Memory 1 Page 1 to Memory 1 Page 15
- Record this new Page to Preset 2 in Bank 2

Address Parameter Copy 3

*Forced Parameter Copy*

- Copy selected Constructs of one Address from one PAGE to Another PAGE: POSITION COPY
  - PRESS AND HOLD SELECT KEY
  - Select source ADDRESS
  - Select CONSTRUCTS to be copied
  - PAGE UP/DOWN to select the destination PAGE
  - Press RECORD
Hands On Exercise

*Forced Parameter Copy*
- Copy only Gate & Color information for Cyberlight Address #1 on Memory 1 Page 6 to Memory 1 Page 16
- Record this new Page to Preset 3 in Bank 2

**MSPEED**
- MSpeed is changing from one Color or Gobo on the wheel to another Color or Gobo on the wheel at the same rate of change as the speed of the mirror movement
- Changing from one wheel position to a different wheel position has two options
  - FAST CHANGE
  - MSPEED CHANGE
- Access Mspeed for Color and Gobo through the Menu by pressing the Construct Key and then pressing the Cursor Right Key to Mspeed option
Hands On Exercise

*Using MSpeed*

- 1. Record Memory 3 Page 2
  - Cyberlight Color 1 Gobo 2 Mspeed 90
- 2. Page Copy up to Page 3
- 3. Change the Cyberlight to Color 2 and assign MSpeed to the Color Wheel
- Record both Pages to Presets 5 & 6 in Bank 1
- Playback each Preset and examine the MSpeed change

Erasing a Page

*Creating a Blackout Page*

- Resets all parameters for all addresses on a PAGE to default values
- Press SELECT
- Press ERASE
- Press RECORD
Hands On Exercise

Erasing a Page
• Erase Memory 1 Pages 1&2

Additional Features of the LCD Controller
• Home a Fixture
• Viewing an Address
• Address Lockout
• Master/Slave Capabilities
• Grand Master
• Instant Blackout
• Audio Playback Effects (User Keys)
• Macros
Home Key

- Press the HOME key and the Address of the Fixture you want to reset
- Pressing HOME a second time will turn off the flashing LED and allow playback of Pages or Presets to continue while the selected Fixture resets

Viewing an Address on a Page

- To instantly see the Construct Parameters of an Address while in Address mode, press and hold the Address key.
- All Parameters will be displayed in the LCD window

⚠️ CAUTION! Holding the Address Key in for 15 seconds will result in ADDRESS LOCKOUT, and signal will be shut off to the fixture
Address Lockout

- Temporarily shuts off signal to that Address being locked out
- Press and Hold in the Address Key for 15 seconds to Lockout and Unlock the Address
- Turning off the Controller unlocks all Addresses

MASTER/SLAVE

- Using Master/Slave increases the number of individual Addresses that can be controlled
- Slave Mode Requires Personality B DIP Switch #1 ON
  - SLAVE Mode Indicator LED will be on
- Slaved controllers only allow programming features
  - PLAYBACK features are DISABLED
- Master Controller controls PAGE AND PRESET to be played back
Grand Master Function

- In either Address or Preset Mode, the intensity of the output can be adjusted
  - USE CONSTRUCT UP/DOWN ARROW KEYS TO ADJUST SETTING

Standby

- Provides an instant blackout feature
- Closes GATES of all Fixtures
- Page advancement is halted
- All other functions are available
Audio Input Playback

- The LCD Controller can receive an external stereo source to control playback of recorded Pages
- Audio input playback affects how recorded Pages play back regardless of whether those Pages are part of a Loop or not
- To use the Audio effects:
  - Plug a stereo source into the Stereo Audio Input connector on the Rear Panel
  - Select a Recorded Page or Pages
  - Select a User Key effect

Audio Level Indicator LED & Audio Knob

- LED displays the strength of the AUDIO INPUT SIGNAL
- Knob adjusts the controller's sensitivity to the AUDIO INPUT SIGNAL
- Signal is necessary to use the controller's built in AUDIO ADVANCE Functions and EFFECTS Functions
User Keys

• Pre-Programmed Audio Effects and Page Advancement Effects
  – USER 1 Random Advance Key (use with Auto Advance Key and/or All-Mem Playback)
  – USER 3 Audio Advance With Beat
  – USER 5 Audio Halt With Beat
  – USER 2 Color Modulate
  – USER 4 Gobo Modulate
  – USER 6 Dim Modulate

Macros

• Series of keystrokes stored onto a single button
• Playback of button activates the MACRO stored within
• MACROS are stored on the USER KEYS of the LCD Controller
Macros/USER Key Programming

• Three States of the USER Keys
  – PLAYBACK USER KEY
  – EDIT USER KEY
  – ABORT USER KEY

• Playback a recorded USER Key by pressing the USER Key once (Press it again to STOP PLAYBACK of Audio Effect)

• To enter the EDIT menu, press and HOLD the USER Key in; RELEASE when EDIT is displayed in the LCD window

• ABORT PLAYBACK and EDIT by holding the USER Key in until ABORT is displayed

Recording a USER KEY

• Press and HOLD User Key to be recorded until EDIT USER KEY is displayed
• Press CURSOR RIGHT key 2 times to RECORD
• Press CURSOR DOWN key to start recording
• EXECUTE keystrokes to be recorded as the MACRO
• Press CURSOR RIGHT Key 2 times to STOP RECORD
• Press CURSOR DOWN Key to stop recording
Hands On Exercise

*Macros*
- Make a Macro for executing a Page Copy

LCD Controller

*Menu Features*
LCD Controller Menu Features

Menu Mode

- Menu provides options for you to define the characteristics of the controller
- Menu also provides some shortcut methods for some controller functions
- ITEMS INCLUDE:
  - HELP
  - BACKUP
  - SUBMASTERS
  - SETUP
  - FUNCTION

Menu Mode

- Press MENU Key to display SUBMENU items
- Use Cursor Left/Right keys to select the submenu items
- Selected item will be displayed in all CAPITAL letters
HELP

• Displays information about each of the SUBMENU items

Backup

• Backup Options include:
  – **OS to RAMCard**
    • Transfer LCD Controller Operating System to another controller
  – **Save to RAMCard**
    • Save the LCD Controller's internal RAM to a removable Memory Card
  – **Load from RAMCard**
    • Load the internal RAM from a Memory Card
      – PCMCIA CARD
      – Removable device that allows you to backup or store the controller's internal memory
      – Each card holds one LCD Controller show
Updating Operating Systems Software

- Allows the O/S from one LCD Controller to be easily copied to another LCD Controller
- To execute an O/S Update,
  - Turn OFF the controller
  - Insert Memory Card with newer O/S version
  - Turn Power ON
  - Press ERASE key to install O/S when prompted
  - Press ERASE again to continue
  - Follow instructions displayed in LCD window

Saving to a RAMCard

- Press MENU
- Press CURSOR RIGHT arrow key to BACKUP submenu
- Press CURSOR DOWN key to view selections
- With MEM->CARD displayed in ALL CAPITALS, Press RECORD two times to save to RAMCard

NOTE: Always Lock the RAMCard after backing up the Controller’s Memory
Loading from a RAMCard

- Press MENU
- Press CURSOR RIGHT arrow key to BACKUP submenu
- Press CURSOR DOWN to view selections
- Press CURSOR RIGHT arrow key to CARD->MEM
- Press ERASE two times to load from RAMCard

Hands On Exercise

*Backing up the Controller*
- Backup the Memory of the Controller to a RAMCard
Submasters

- External Control board that lets you remotely adjust constructs in real time
- DIM, COLOR, & GOBO can be controlled
- 12 SUBMASTERS can be assigned
- Submaster control overrides the controller programming
- 2 modes:
  - PROPORTIONAL LEVEL: Submaster value is multiplied by the programmed fixture value
  - REMOTE LEVEL: Device with the higher level has control: "HTP"

Setup

- Set Device ID for Show Control operation
- Lock out Memories to prevent inadvertent editing
- Configure controller to use RS232 or MIDI port
- Configure the COPY Command Parameters
- Erase all of Controller's Memories
- Erase USER Keys (Restores to Pre-Programmed Audio Effects)
Edit/Copy Command

• SHARE ALL UNTIL SELECTED
  – Copies all Constructs until specific Constructs are selected
  – This is the Controller’s Default setting

• DON’T SHARE ALL UNTIL SELECTED
  – Only copies specified Constructs

Erasing the Controller’s Memory

• Erase either
  – Entire Memory
  – User Key Memory only
Hands On Exercises

*Erasing the Controller’s Memory*

- Erase the Memory of the Controller
- Load your show from RAMCard back into the Controller

**Function**

- Provides access to the six pre-programmed USER key functions when Macros are stored on the keys
Automatic All-Memory Playback*

- Automatically sequences through all 99 PAGES in all 9 MEMORIES
- From ADDRESS Mode, Press CURSOR UP/DOWN arrow keys until "1-all" or "9-all" is displayed
- Press AUTO Button
- Adjust RATE knob
- To Stop the sequence, press AUTO again and select Memory 1-9

*Use this in conjunction with the Random Audio advance function

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**Remote Access Control**
Remote Access Control

- Method of using a remote control device like a dimmer console or TD 12 to remotely access the LCD Controller's Memory
- 12 Channels are required on the remote device
- Connect the remote device using the ANALOG INPUT CONNECTORS on rear panel

NOTE: Flashing STANDBY KEY LED indicates the controller is being controlled through the ANALOG INPUTS (when analog input is present)

Three Methods of Remote Access Control

- Page Access
- 12 Level Preset Access
- Binary Preset Access
Page Access Mode

- Personality B DIP Switches 3 & 5 "OFF"
- Allows you to remotely call up Pages from within the Memory that you first select on the Controller's front panel
- You can not remotely select Memories

Page Access Mode cont.

- Channels 1-12 correspond to PAGES 1-12
- Any simultaneous combination of 2 channels calls up the corresponding PAGE number (i.e. "3" and "7" = "37")
- Channel 10 is also a tens-times multiplier ("4" and "10" = "40")
- Channel 11 is also a number doubler ("5" and "11" = "55")
- Channel 12 is also a number inverter ("6" & "5" & "12" = "65")
Hands On Exercise

Page Access
- Playback Pages 34, 40, 55, and 82 in Memory 1

12 Level Preset Access Mode
- Personality B DIP Switch "3"=ON, "5"=OFF
- Each Channel activates a different level of Presets
- Presets are called up from Controller's Front Panel
Recording Presets in 12 Level Access Mode

• First Method
  – Activate the Channel corresponding to the level you want
  – Select the Page or Pages to be recorded as a Preset
  – Press SELECT
  – Select the Preset number key to be recorded
  – Press RECORD

• Second Method
  – Choose Page to be recorded
  – Press SELECT
  – Activate a channel on the remote device corresponding to the level you want
  – Select a Preset number key on controller's front panel
  – Press RECORD
Playback Presets in 12 Level Access

- Activate Channel on Remote device
- Press Preset number on front panel of LCD Controller

Hands On Exercise

12 Level Preset Access

- Program a Preset on Level 2 Preset 1
- Program a Preset on Level 10 Preset 5
- Playback each Preset
Binary Preset Access Mode

- Expands controller's number of Presets to 1023
- Personality B DIP Switches "3" and "5"=ON
- To record a Binary Preset:
  - Toggle to Preset Mode
  - Select Page or Pages that you want to record as a Preset
  - Press SELECT Key
  - Activate any binary combination of channels 1-10
  - Select the lighted Preset number key on the LCD Controller
  - Press RECORD

Playing back a Binary Preset

- Activate the Binary channel combination for the desired PRESET on the remote control device
- Sit back and watch!
Hands On Exercise

*Binary Preset Access*
- Program Preset # 658

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**High End Systems**

*Further Information Sources*

- www.highend.com
- Show Technology magazine
- Status Cue User’s Group
- Seminars
  - Programming
  - Technical