Utah Scientific
THE DIRECTION IN DIGITAL SWITCHING

FIELD BULLETIN

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MC-400 Programming - Video Training Series

Program 1 - Introduction to Programming

:50	Using existing instructional diagrams for assistance
3:40	BNC Usage - MC-400 Card
7:00	The Ernie Midplane connector
10:14	MC-400 Card Usage

Program 2 - Encoding Retrieval

:50	Making a setup determination based on either the MCP-400 or MC-2020 configuration
2:30	PC-Prep - Activation if necessary
6:21	The NFS Server
7:50	The Encode folder's contents (batch files)
11:25	The 'Get Encode' Procedure

Program 3 - Setting Miscellaneous Parameters

:30	MC-400 Configuration file - content description
2:50	The ‘System Name’
5:30	The ‘Misc Start’ section - described
11:10	Line Standard (Misc. Start section) - described
12:35	Using multiple line standards (Misc. Start section)
13:15	EAS Operation mode
15:03	EAS Operation - ‘Manual’ mode description
16:20	EAS Setup - Sage
16:56	Startup Config Macro Number - described

Program 4 - Logical to Physical Table

:40	Opening the Test MC-40001 file
:50	The ‘Router Logical to Physical Definition Start’ section
4:20	SC-4 Encoding (Config file)
5:25	The Router table
7:08	The Level table (Virtual table)
8:50	Source and Destination tables
11:25	The Virtual Level within the Level table
14:23	Embedded Audio systems - setup consideration

Program 5 - Sources and Attributes

:50	SC-4 Encoding - SC-4 configuration file access
1:05	MC-40001 configuration file access
1:25	'Router Source Definitions Start' (section config)
2:05	Table column definitions
3:05	8 and 4 character table parameters
4:06	Level column configuration and setup example
8:40	Index number usage between tables
10:52	Video Formats - Input table setup
15:50	Router Source Attribute Start (definition)
17:45	Column modes - Router Source Attribute Start (section)

Program 6 - Video Formats, Outputs, Reference, and Buttons

:53	Process start - Modifying the current configuration file
2:25	Verifying the current default video format
3:23	Using multiple formats within the MC-400
6:26	Designating a specific video format as the default
11:25	Applying the video format by modifying the 'Router Source Definitions Start' table
13:40	Consistent format naming between tables
19:21	Quick Summary: Format name/table placement
20:24	'Panel Button Definitions Start' - assignment and format management
27:09	Programming the format: 'MC-400 Video Format' table
31:15	Slot placement
33:03	Referencing and Index values - Source Device table
35:00	Output Programming - Program, Preset, and Reference
42:27	Quick Summary: Programming
46:00	Button Assignments
51:10	Programming Summary
53:02	Using the MC-400 Output worksheet

Program 7 - Serial Port Setup and Automation

:10	Configuration table setup within the Config file
1:06	The Master Control protocol drivers - discussed
3:37	Protocol Driver placement
4:04	MCP-400: connection illustration (discussion)
5:51	Config file setup - overview
7:15	Config file setup - making the modifications
8:44	Part Numbers
9:45	MC-2020 and MC-400 setup

Program 8 - Tallies and GPIs

:08	GPIs and GPOs
:36	GPI/O Select
1:21	Important Note: Power Requirement for GPI use
3:09	For additional MC-2020 use: Relays and Optos
5:20	MC-400: Tally and GPI (Definitions Start section)
8:22	Using the Miscellaneous Relay (section)
11:16	GPI Definitions Start (section)
12:30	The 3 types of GPIs for this function
13:48	The Macro - most common use for the GPI
15:02	The *Take* and *Preroll* options

Program 9 - EAS Setup

:50	(1) Miscellaneous section setup
1:52	Modes: Auto and Manual
3:50	EAS Forward time-out
4:39	EAS Display time minimum
6:20	EAS Automation action
7:23	BNC Use: EAS Audio
8:27	Serial Port Connection (MC-400)
8:50	Com Port 2 Setup
9:14	(2) Machine Control Serial Port Definitions Start section - setup
11:51	(3) EAS Display Config Definitions Start
14:00	(4) EAS Macros - GPI Definitions Start
17:03	GPI Setup - Sage(TM)
20:00	GPI Setup - TFT(TM)

Program 10 - Changing the IP Address and Chassis ID Screen

:30	Connecting to the Devices - 2 Methods: Telnet or Serial
5:06	Getting IP Address Information (examples)
7:38	NIC card - setup options
9:00	Changing the Card's IP address
10:51	Resetting the Device
12:21	Working with the chassis ID and name

Program 11 - Retrieving and Sending Config Files to the MC-400 and MCP-400

1:18	Running the Net Verify batch file (MC-400)
2:15	NFS Server verification
3:23	IP Address verification
4:22	Problems with the NFS Server mount - setup demonstration
8:12	Running the Get Encode batch file
10:30	Running the ‘burnenc-network’ batch file
12:40	Modifying the button layout

Program 12 - Connecting the MC-400 Channel to the MCP-400

1:45	Launching Tera Term: Initial address verification
2:50	Address programming and retrieval - command prompt
3:35	Naming verification
4:54	MCP-400 system name verification
7:16	Changing the system names
10:22	Sending the configuration - to MC-400
15:30	Verifying the configuration update
17:10	‘getencode’ - continued verification
18:25	Matching the system names
21:00	Completing the update by running ‘burnencode’
22:38	Final config verification

Program 13 - Encoding Retrieval

:00	Connecting the MCP-2020 to the MC-400