## Activating configuration set, 5-13 Index Active I/O Set Editor, 10-1 Adapter cable, EC-2000, 2-106 ADC, 5-203 Add row, 5-4 Address CP-3808, 6-71 **Symbols** CP-3824, 6-87 CP-3830, 6-97 .rsv files, 18-1 CP-3832/3864, 6-112 \*\*\*\* (as status display), 5–111 LAN devices hardware, 5-22, 8-1 TCP/IP, 9-3 Machine control device, 5-141 **Numbers** MPK device, 5-108 0080CEDEADxy, 2-39 Display of ID, 6-21, 6-47, 6-72 Administrator, 5–1 01-036373-001 cable, 2-106 and JNS, 4-1 01-041340-001 cable, 2-8 Advise, 5-41 01-041420-001 cable, 2-106 AES, defined, Glossary-1 01-041600-TAB cable, 2-102 AES11, defined, Glossary-1 10/100BaseT, defined, Glossary-1 AES3-1992, defined, Glossary-1 100/400 offset method, 5–36, 5–38 AFV, defined, Glossary-1 10Base2, defined, Glossary-1 Alamar 110/220 VAC selection, 2-1 See also Thomson Automation defined, Glossary-1 200, serial protocol table entry, 5-27 Protocol Dependent Devices table entry, 5-145 220 VAC selection, 2-1 Alarm, 8–2 3-stage. See Three-stage ALP, 5-28 3040SLCT/LOCK, U-3 Alpha Image 4000 series, defined, Glossary-1 A264S Physical level no., 5–38 protocol entry, 5-39 A264S router, Connecting to, 2–22 serial protocol table entry, 5-26 A (flashing), on VGA display, 6-142 **Ampex** Addressing, 2–84, 5–141 A (in CP-3000 display), 6-19 AVR-3, 2-82A board, defined, Glossary-1 Bus, 2-83 Installation notes, 2-84 A264S. See Alpha Image max VTRs per port, 1-19 AA board, defined, Glossary-1 Protocol to ESbus protocol, F-3 Abekas, serial protocol table entry, 5-26 serial protocol table entry, 5–26 VPR-2, 2-82 AC line selection, 2-1 VPR-3, 2-82 AC power adapter, Q-1 VPR-300 series, 2-82 VPR-6, 2-82 AccuSwitch VPR-80, 2-82 defined, Glossary-1 ordering information, 1–26 Ampex bus, defined, Glossary-1

Analog–digital conversion, 5–203	BBC-2300, 2-90
Andromeda, 2–107	BCB-70/75, 60/65, 35, 2-82
Array (Vistek)	BCS-3000, defined, Glossary-1
Connecting to, 2–28 Routing switcher dialect, Matrix–physical level no., 5–38 ASC, entry on Serial Protocol table, 5–28	Belden 1422, 2–102 8723, 2–77 9505, 2–9
•	
ASCII, Routing switcher protocol Command set, N-1 Hardware connections, 2-79 Level indication, 5-57 load factor, 1-19 max. switcher size, 1-8 MPK table entry, 5-130	Betacart, 2–82  Binary Mars protocol, 5–39 SDR–400 protocol, 5–39 super crosspoint bus, Glossary–2 Venus protocol, 5–39
Serial protocol table entry, 5–26	Binary-hexadecimal-decimal chart, D-1
Asoc name, 5–153	Black Box, 2–25, 2–28, 2–80, 2–101
Assemble edit, MC-3000, 6-133	BNC Tee cover, 2–44
Assignable inputs. See Input Source Assignment	Board Info/Control, JNS Control Center, 9-3
Assigning machines to control panels, 5-151	Board Override, 9–4
Audio CP–3000 stereo switching, 6–18 CP–3800 stereo switching, 6–43 CP–3808 stereo switching, 6–74 CP–3830 stereo switching, 6–96, 6–98 CP–3832/64 stereo switching, 6–115 GUI panel stereo switching, 7–14	Board Status JNS application, 8–1 JNS Control Center, 9–1 Boot, VM/SI–3000/Saturn, B–1 Breakaway CP–3000, 6–14
Auto-Edit mode, 6–133	CP-3800, 6-41 CP-3808, 6-67
Automation  See also BTA-2300; Thomson Automation Output passwords ignored, 5–53	CP-3830, 6-81, 6-94 defined, Glossary-2 Disabling, 5-56 Switching, 5-46
AV board, defined, Glossary–1	Bridge, 2–42
AVR-3, 2-82	Broadcast Automation. See Thomson Automation
AVS-1B. See Utah Scientific	BSD-2000, technical manual, xxix
AVS–1B (PL–320), serial protocol table entry, 5–27	BTS BCB-70/75, 60/65, 35, 2-82 DCR-10/18/20/28, 2-82 DCR-100/300/500, 2-82
B&B Electronics, 2–14	DCR-34/35, 2-82 DCR-500, 2-74
Backup automatic source switching. See 2x1 Matrix Combiner redundant VM/SI. See VM/SI redundant installation	defined, Glossary–2 PCB–2600/2650/2800, 2–82 Bulbs
Base load factor, 1–18	Replacing, 2–72
Base multiplier, 1–21	Testing, 2–73
Baud rate	testing. See Diagnostics
1200/2400 for MPK control panel, 5–29 entry on Serial Protocol table, 5–26	Bus, defined, Glossary–2 Button–per–input, defined, Glossary–2

BVH-1000, 2-82	Clipboard, Windows, 5–6
BVH-1100, 2-82	Clock
BVH-2000, 2-82	PC, 9–5
BVH-2500, 2-82	VM, 9–5
BVU-800, 2-82	CM-4000, 1-4 defined, Glossary-2
BVW-10, 2-82	entry on Net Description table, 5–22
BVW-40, 2-82	entry on Serial Protocol table, 5–25
B v w - 10, 2-62	ESbus tributary protocol, 5–26 manual, xxix
С	Combiner. See 2x1 Matrix Combiner; VM–400 or DC–400
Carts. See Audio carts	Compiling/activating configuration set, 5–13
Categories, Changing factory names for, 5–103, 10–5	Computer
	external, controlling router, 2–77
Category set Changing, 5–107	file server. <i>See</i> File server non–Jupiter, controlling VTRs, 2–97
default, 5–65, 5–66, 5–82, 5–83	
Category/number	Concerto, 1–12 connecting to VM–3000, 2–3
defined, Glossary–2	Physical level no., 5–36
Linking to switcher input, 5–58, 5–62	Switcher Description table entries, protocol, 5–39
Linking to switcher output, 5–76, 5–79	Configuration
CB-2000, 2-11	CP-3800, 6-50
CB-3000, 2-3, 2-11	Editor, 5–1 JNS Control Center, 9–6
CC–2010 cable, 2–9	Sets
CD-ROM, technical library, xxix	Activating, 5–13
CE, xxvi	Compiling, 5–13 Copying and selecting for editing, 5–10
CE-1003B, 1-12, 2-3	defined, Glossary–2
CE-3000, P-1	General description, 5–8
Defined, Glossary–2	Modifying and downloading, 5–8 naming rules, 5–7
CEC, xxvii	Numeric, 5–11
CET, entry on Serial Protocol table, 5–28	Configuration guide, 1–22
Characters, in set, table, & device names, 5–7	Configurator, 5–1
Cheapernet. See Thin net	Confirm all, 5–39
Champing 2 11 2 102	Conformity, Declaration of, xxvi
Chomerics, 2–11, 2–103	Connect, on JNS Control Console, 4-2
Chop CP–3000 panel, 6–13	Contact information, xxviii
CP–3020 panel, 6–26	Control
CP-3800, 6-49	Center. See "Control Center" below
CP-3824 panel, 6-80	Panels
CP-3830 panel, 6-93	See also model no. ("CP-xxxx")
CP-3864, 6-103	baud rate, 5–29 Custom mounting, 1–16
defined, Glossary–2 limitations, 6–13	I/O set editor, 10–1
	Installing, 2–45
Clear Flash, Board Info/Control menu, 9–4	JNS Router Control Utility, 17–1
Clear PMEM, Board Info/Control menu, 9-4	naming rules, 5–7

Operating, 6–1 Power supply, 1–16 Software Control Panel Suite. <i>See</i> Software Control Panel Suite	CP– 310 AC power adapter, Q–1 assigning keys to inputs, 5–98 CP Category set type entry, 5–104 CP output set entry, 5–80, 5–85
Control Center, 5–8 , 5–13 , 9–1 clearing battery–protected memory, B–1 clearing flash memory, B–2 VM/SI–3000 reset, B–1	diagnostics, 6–6 front panel drawing, 2–47 installation, 2–47 MPK table entry, 5–112
Control Console, 4–1	Operation, 6–2
Controller, VTR, DM 400B, 5-49	CP-320
Controller board, defined, Glossary-2	AC power adapter, Q-1 categories, 5-66, 5-83
Conversion analog–digital, 5–203 party line input/output, 5–170 levels, 5–171 RS–232/422 converter. See RS–232/422 converter	CP Category set type entry, 5–104 CP Input set type entry, 5–63 CP Output set table entry, 5–80 custom category set, 5–103 diagnostics, 6–6 Front panel drawing, 2–48 general description, 2–48
Copying Configuration sets, 5–10 CP Input set, 5–74 CP Output set, 5–78	installation, 2–48 key positions (diagram), 5–105 MPK table entry, 5–112 Operation, 6–3
Cover for BNC tee, 2–44	CP- 328
CP Category sets, 5–103 Input sets, 5–58 control panel types, 5–63, 5–80 Level sets, 5–55 Output sets, 5–76 Override sets, 5–98 Sequence sets, 5–101	AC power adapter, Q-1 categories, 5-66, 5-83 CP Category set type entry, 5-104 CP Input set type entry, 5-63 CP Output set table entry, 5-80 diagnostics, 6-6 general description, 2-48 installation, 2-48 Level Set entry, 5-56
CP board, defined, Glossary–2	MPK table entry, 5–112 Operation, 6–4
CP I/O Set Editor, 10–1 password, 10–2 CP– 300 Series diagnostics, 6–6	CP– 330 AC power adapter, Q–1 assigning keys to inputs, 5–98 diagnostics, 6–6
DIP switches, 2–46 Installation, 2–46 Installing button labels, 2–72 load factor, 1–18 rear panel connectors, 1–13	dual bus mode, CP output set entry, 5–81, 5–85 entry on MPK table, 5–110 front panel drawing, 2–49 installation, 2–49 MPK table entry, 5–112
CP-300	Operation, 6–4
AC power adapter, Q-1 assigning keys to inputs, 5–98 diagnostics, 6–6 front panel drawing, 2–46 installation, 2–46	sticky levels, 6–3 CP– 330/6 diagnostics, 6–6 installation, 2–49 Operation, 6–5
MPK table entry, 5–112 Operation, 6–1 sticky levels, 5–109, 6–1	CP-2002 general, 1-5 manual, xxx

CP-2002B	Unlock, 6–11
CP Input set type entry, 5–63	Unprotect, 6–10
CP Output set table entry, 5–80	Work sheet for output set, M–1
CD 2000	CP-3008
CP–3000 2400 baud operation, 2–101	CP Input set type entry, 5–63
Audio switching modes, 6–18	CP Output set table entry, 5–80
CHOP button, 6–13	manual, xxix
CP Category type entry, 5–104	CP-3010
CP Input set type entry, 5–63 CP Output set table entry, 5–80	See also CP–3000 expansion panel or MC–3000 ex
custom category set, 5–103	pansion panel
custom mounting, 1–16	Front panel drawing, 6–131
defining	Load factor, 1–19
override keys, 5–98	MPK Devices table entry, 5–108
overrides (at panel), 6–21	With CP-3000
sequences, 5–101	Front panel drawing, 2–50
Diagnostics, 6–20	General description, 2–50 Operation, 6–24
Display ID, 6–21	Permanent output assignment, 5–77, 5–83
Entering mnemonic for switcher input, 5–58	with MC–3000 machine control panel, operation,
Expansion panel	6–131
entry on Machine Control table, 5–149	Work sheet for output set, M–1
Level statused, 5–56	
Front panel drawing, 2–50	CP-3020
Full matrix control, 5–113	assigning keys to inputs, 5–98
General description, 2–50	Chop button, 6–26
Input selection, 6–8	Front panel drawing, 2–51
Installation, 2–50	General description, 2–51
key positions (diagram), 5–105	Installing button labels, 2–72
LEV button, 6–14	Load factor, 1–18
Level mnemonics, 5–56	Lock button, 6–26
Levels order in status row, 5–56	MPK Devices table entry, 5–108 Operation, 6–26
Linking category/no. to switcher inputs, 5–58	Rear panel connectors, 1–13
Load factor, 1–18	Selecting output for control, 5–113
LOCK key, 6–11	
MENU key, 6–15	CP-3021
modem connection, 2–101	Front panel drawing, 2–51
MPK Devices table entry, 5–108	General description, 2–51
Multi bus control, 5–113	Installation with CP–3020, 2–51
operation, 6–7	Installation with MC–3020D, 2–71
force unprotect/unlock, 6–12	Installing button labels, 2–72
tutorial, J–1	Load factor, 1–19
Output to control, changing, 6–20	Rear panel connectors, 1–13
Override input selection, 6–7	CP-3030
password, 6–22	CP Input set type entry, 5–63
Pin outs, 2–102	CP Output set type entry, 5–80
PROTECT key, 6–9	installation and operating manual, xxix
re-legendable button kit, 5-103	MPK devices table entry, 5–109
Rear panel connectors, 1–13	CP-3200, on remote PCs, T-1
Sequences (selecting), 6–17	
Single bus control, 5–113	CP–3300, defined, Glossary–2
Status checking, 6–16	CP-3310
stereo special switching, 6–18	CP Category set type entry, 5–104
Switcher description table entry, 5–40	CP Input set type entry, 5–63
tutorial, J–1	CP Output set table entry, 5–80

defined, Glossary–2	CP-3808
CP-3320, defined, Glossary-2	audio switching modes, 6–74
•	baud rate set, 6–72
CP–38 xx series, 64 level limitation, 1–18	breakaway (split switch), 6–67
CP-3800	button lamps, brightness, 6–72
Audio control mode, 6–43	categories, 5–66, 5–83
baud rate set, 6–47	CP Category set type entry, 5–104
breakaway switch, 6–41	CP Input set type entry, 5–63
button lamps, brightness, 6–48	CP Output set table entry, 5–80
chop, 6–49	custom category set, 5–103
configuration, 6–50	diagnostics, 6–71
CP Category set type entry, 5–104	display ID, 6–72
CP Input set type entry, 5–63	displaying address (ID), 6–71
CP Output set table entry, 5–80	error codes, S-2
CP Override table entry, 5–98	front panel drawing, 2–53
custom category set, 5–103	input selection, 6–66
diagnostics, 6–47	installation, 2–53
display ID, 6–47	key positions (diagram), 5–106
entry on Machine Control Devices table, 5–149	load factor, 1–18
entry on MPK devices table, 5–109	lock, 6–69
error codes, S–2	MENU key, 6–68
front panel drawing, 2–52	modem connection, 2–101
installation, 2–52	operation, 6–64
Level button, 6–41	force unprotect/unlock, 6–70, 6–71 output to control, changing, 6–65
level selection mode, 6–41	password, 6–75
Load factor, 1–18	power requirements, 1–14
	PROM version, 6–47, 6–71, 6–113, 6–121
lock, 6–61 machine control, 6–45	protect, 6–70
	rear panel connectors, 1–14
Menu mode, 6–45	Status checking, 6–69
modem connection, 2–101	stereo special switching, 6–74
Multiple destination mode, 6–31	unlock, 6–69
changing output soft key, 6–34	unprotect, 6–70
erasing an output, 6–35	with Expansion Panel, entry on MPK table, 5–110
making a switch, 6–32	
permanent output assignment, 5–77, 5–83	CP-3809
switching to single destination mode, 6–37	button assignment, 5–77
operation, 6–27	diagnostics, 6–125
override mode, 6–53	entry on MPK Devices table, 5–110, 5–112
overview, 6–27	front panel drawing, 2–56
passwords, 6–51	installation, 2–56
power requirements, 1–13	load factor, 1–18
prompting, 6–51	operation, 6–124
protect, 6–61	power requirements, 1–14
rear panel connectors, 1–13	rear panel connectors, 1–14
Sequence mode, 6–57	With CP–3808/3830, Permanent output assignment
Single destination mode, 6–37	5–85
making a switch, 6–40	CP-3810
selecting an output for control, 6–38	assigning buttons to outputs, 5–77, 5–83
split switch, 6–41	diagnostics, 6–130
stereo special switching, 6–43	entry on Machine Control table, 5–149
Switcher description table entry, 5–40	entry on MPK Devices table, 5–110, 5–112, 5–137
sticky displays, 6–50	front panel drawing, 2–63
tie line status, 6–63	general description, 2–63
VTR control, 6–45	hardware installation, 2–63

load factor, 1–18	MENU key, 6–96
operation, 6–126	modem connection, 2–101
power requirements, 1–14	operation, 6–88
rear panel connectors, 1–14	force unprotect/unlock, 6–92, 6–93
CP-3810L, entry on MPK table, 5-109, 5-138	password, 6–75
CF-3610L, entry on MFK table, 3-109, 3-136	power requirements, 1–13
CP-3810S	PROTECT key, 6–92
entry on MPK table, 5-109, 5-137	rear panel connectors, 1–13
operation, 6–126	single bus control, entry on MPK table, 5–112
CP-3824	Status checking, 6–96
categories, 5–66, 5–84	stereo special switching, 6–96, 6–98
category keys (diagram), 5–106	unlock, 6–92
CHOP button, 6–80	unprotect, 6–92
CP Category set type entry, 5–104	with Expansion Panel, entry on MPK table, 5–110
CP Input set type entry, 5–63	CP-3830P
CP Output set table entry, 5–80	32 level limitation, 1–18
custom category set, 5–103	categories, 5–66
diagnostics, 6–87	CP Input set type entry, 5–63
displaying address (ID), 6–87	CP Output set type entry, 5–80
front panel drawing, 2–54	default outputs, 5–84
installation, 2–54	entry on MPK table, 5–109
LEVEL button, blinking, 6–84	installation, 2–56
load factor, 1–18	operation, 6–88
LOCK key, 6–79	CP-3832
MENU key, 6–87	assigning keys to inputs, 5–58
operation, 6–76	audio switching modes, 6–115
force unprotect/unlock, 6–79, 6–80	button lamps, brightness, 6-114, 6-122
overrides, 6–77	CP Input set type entry, 5–63, 5–80
power requirements, 1–14	diagnostics, 6–112
PROTECT key, 6–79	displaying address (ID), 6–112
rear panel connectors, 1–14	entry on CP Input set table, 5–64, 5–81
sticky levels, 6–83	entry on MPK table, 5–110
unlock, 6–79	front panel drawing, 2–58
unprotect, 6–79	general description, 2–58
CP-3830	hardware installation, 2–58
audio switching modes, 6–96, 6–98	LEVEL button, blinking, 6–102
baud rate set, 6–72, 6–113, 6–122	load factor, 1–18
button lamps, brightness, 6–72	MENU key, 6–112
categories, 5–66, 5–84	modem connection, 2–101
CHOP button, 6–93	multi–panel applications, entry on MPK table, 5–133
CP Category set type entry, 5–104	operation, 6–100
CP Input set type entry, 5–63	force unprotect/unlock, 6–104, 6–105 Panel name, 6–112
CP Output set table entry, 5–80	password, 6–100
custom category set, 5–103	power requirements, 1–14
diagnostics, 6–71, 6–97	PRESET button
display ID, 6–72	blinking green, 6–101
displaying address (ID), 6–97	blinking red, 6–101
dual / dedicated output, 5–112, 5–132, 6–89	PROT/LOCK button, 6–103, 6–104
error codes, S–2	rear panel connectors, 1–14
front panel drawing, 2–55	stereo special switching, 6–115
installation, 2–55	sticky levels, 6–102
key positions (diagram), 5–106	unlock, 6–104
load factor, 1–18	unprotect, 6–103
LOCK key, 6–92	X–Y operation, entry on MPK table, 5–111, 5–112

CP-3832L diagnostics, 6-121	password, 6–117 PROT/LOCK button, 6–119
entry on CP Input set table, 5–64	
entry on MPK table, 5–110	CP-3864P
general description, 2–58	entry on MPK table, 5–110
hardware installation, 2–58	operation, 6–101
operation, 6–117	use with expansion panel not possible, 2–58
password, 6–117	CPL, Glossary–2
PROT/LOCK button, 6–119	cpsatrn
CP-3832P	CP Category set, 5–104
entry on MPK table, 5–110	CP Input set, 5–63
operation, 6–101	CP Output set, 5–80
use with expansion panel not possible, 2–58	Crash (program), B–1
CP-3864	CRC, 8–1
assigning keys to inputs, 5–58	Crosspoint
audio switching modes, 6–115	Board, PROMs, 2–3
baud rate set, 6–113, 6–122	Bus
button lamps, brightness, 6-114, 6-122	Connecting to, 2–3
chop, 6–103	load factor, 1–19
diagnostics, 6–112	Transmission speed, 1–12
displaying address (ID), 6–112	defined, Glossary–2
entry on CP Input set table, 5–64, 5–81	Crosspoint bus, defined, Glossary–3
entry on MPK table, 5–110	•
front panel drawing, 2–60 general description, 2–60	Crosspoint bus router, defined, Glossary–3
hardware installation, 2–60	CRS-MC-C2, 2-3
LEVEL button, blinking, 6–102	CSA, xxvi
load factor, 1–18	Cue/mark, MC-3000, 6-132
MENU key, 6–112	Cut and Paste, Windows to Jupiter, 5-6
modem connection, 2–101	cut and t aste, windows to suprier, 5 o
multi-panel applications, entry on MPK table, 5-133	
operation, 6–100	D
force unprotect/unlock, 6–104, 6–105	_
Panel name, 6–112 password, 6–100	D-2000/2166. See Datatek
power requirements, 1–14	D8C, V-1
PRESET button	DA board, defined, Glossary-3
blinking green, 6–101	
blinking red, 6–101	DAC, 5–203
PROT/LOCK button, 6–103	Damage claim, 2–1
rear panel connectors, 1–14	Data bits, MPK, Glossary-7
stereo special switching, 6–115	Data switcher, 2–32
sticky levels, 6–102	
unlock, 6–104	Datatek, D–2000/2166
unprotect, 6–103, 6–119	Connecting to, 2–23
CP-3864L	Physical level no., 5–38 protocol entry, 5–39
diagnostics, 6–121	serial protocol table entry, 5–26
entry on CP Input set table, 5–64	•
entry on MPK table, 5–110	DC-400, O-1
general description, 2–60	DCR-10/18/20/28, 2-82
hardware installation, 2–60	DCR-100/300/500, 2-82
operation, 6–117 force unprotect/unlock, 6–119	DCR-34/35, 2-82
10100 displotocy distock, O 117	- CIC 3 1/33, 2 02

DCR-500, 2-74	Dimensions, 1–15
DD Series. See Diamond	DIP switches
DD-5/10/20/30, 2-75	CP–300 Series panels, 2–46
DDE, defined, Glossary–3	VM/SI–3000, 2–2 Disable
DEC, 5–28	Breakaway, 5–56
Decimal–hexadecimal–binary chart, D–1	Level, 5–56
Declaration of Conformity, xxvi	Display mnemonic, defined, Glossary-7
Default linkage, 5–156	Distributed routing, Glossary-3
Delegate panel. See MC–3020D	Distribution switcher. See Switcher, distribution
Delegation	DM 400 Off Time, Switcher Description table, 5-43
defined, Glossary–3	DM-400/400A/400B. See Data switcher
Group, Establishing, 5–161	Documents, related, xxix
Permanent, 5–167	Download, cable (VM to PC), 2-80
Delete row, 5–4	Downloadable, defined, Glossary-3
Dependency, Standard tally, 5–180	DSP, defined, Glossary–3
DEST (CP-3800 button), 6-29, 6-34, 6-35, 6-36,	DTK, 5–28
6–38, 6–42	Dubs panel (GUI), 7–22
Destination. See Output	DUN, 5–28
Device codes, TCS-1, 5-168	Dune
name, 5–168	defined, Glossary–3
rules, 5–7	entry on Serial Protocol table, 5–26
DHCP, defined, Glossary-3	Switcher Description table entries, protocol, 5–39
Diagnostic, physical, 15–1	DVD ASI defined Classory 2
Diagnostics	DVP-ASI, defined, Glossary-3
CP-300 series, 6-6	DVS, defined, Glossary–4
CP-3000, 6-20 CP-3800, 6-47	_
CP–3808, 6–71	E
CP-3809, 6-125	E-E monitor mode, MC-3000, 6-133
CP-3810, 6-130	E-MEM. See Grass Valley
CP-3824, 6-87 CP-3830, 6-71 , 6-97	EBU, defined, Glossary–4
CP-3832/3864, 6-112	EC-2000, Adapter cable, 2-106
CP-3832L/3864L, 6-121 MC-3000, 6-133	Eclipse, 2–24
MC-3000, 0-133 MC-3010, 6-137	Editing guidelines, 5–3
Diamond	EEC, xxvi
CP Input set, 5–64	Electromagnetic radiation, xxvi
CP Level set, 5–56	EMC, xxvi
CP Output set, 5–81 entry on MPK table, 5–129	EMI, notice, xxvi
Hardware connections, 2–75	Livii, notice, xxvi
serial protocol table entry, 5–26	EMI modifications, 2–11, 2–103
tally and DD-35, 2-107	EN Series, xxvi
Digital–analog conversion, 5–203	Encore
DIM, 5–28	connecting to, 2–18

serial protocol table entry, 5–29	defined, Glossary–4
Enforce, 5–41	Installation, 2–41
Error codes, S-1	Excel, 5–6
CP–3800 series panels, S–2 VM/SI–3000, S–1	Exclusion, 5–210 defined, Glossary–4
ES, 5–28	Expansion panel
ES-3000, defined, Glossary-4	See also see model, e.g., CP-3010, CP-3809, etc With CP-3000
ES-400, defined, Glossary-4	Front panel drawing, 2–50 Operation, 6–24
ES-401, 5-32 defined, Glossary-4	with MC–3000 illustration, 5–155
ES-bus, load factor, 1-19	operation, 6–131
ES-LAN, R-1	Extended crosspoint bus, defined, Glossary-3
ESbus defined, Glossary–4	Extended party line, 5–169 defined, Glossary–7
Installation, 2–74 Max length, 1–11	Extended Remote PC, G-1
Max tributaries, 1–11, 2–85 max VTRs per port, 1–19	F
Multipoint, 2–85 Pin assignment, F–1	Fabric board, Glossary-5
Point-to-point, 2–85	Fair-Rite, 2-11, 2-103
Protocol Dependent Devices table entry, 5–145	Fast forward, MC-3000, 6-133
Protocol to Ampex protocol, F–3	Fault button, clearing PMEM, B–2
Protocol to Sony protocol, F–2	· ·
router, 5–27 Routing switcher dialect	FCC rules, xxvi
Control panel connections, 2–79	FCS-3306, 2-101
Matrix–physical level no., 5–38	FCS–3343, manual, xxix
MPK table entry, 5–130	FCS-3357, manual, xxix
serial protocol table entry, 5–28	FCS-3360, manual, xxix
Transmission speed, 1–11 tributary, 5–28	Ferrite, 2–11, 2–103
VTR	Field Engineering Bulletin, 3–1
connection, 2–83	File names, rules, 5–7
interface, 5–26	
ESC, 5–28	File server Clock, 2–103
ESnet defined, Glossary–4	clock, 9–5 Configuration Editor, 5–1
Interface board. See ES-3000	customer–supplied, 1–15 defined, Glossary–5
ESP, 5–28	Disconnecting LAN, 5–16
ESswitch, 5–27	Installation, 2–38
See also ESbus routing switcher dialect	Printer. See Printer
load factor, 1–19	Restart, B-1
Routing switcher protocol, Hardware connections,	specifications, 1–15
2–79	Fixed load factor, 1–19
ESW, entry on Serial Protocol table, 5–28	Flash memory, clearing, B–2
Ethernet Cable part numbers, 1–23	Follow switch, 5–38 defined, Glossary–5

Force unprotect/unlock, 6–12	protocol entry, 5–39
all outputs (JNS), 11–1	Group delegation panel. See MC-302D
CP–3808, operation, 6–70, 6–71 CP–3824, operation, 6–79, 6–80	GS-400, connecting to VM-3000, 2-3
CP–3830, operation, 6–92, 6–93	GUI, defined, Glossary–5
CP–3832/3864, operation, 6–104, 6–105 CP–3864L, operation, 6–119 defined, Glossary–5	GUI panels. See Software Control Panels
Party line panels, 5–21 Router Save/Restore application, 18–2 VGA, operation, 6–143	Н
VGA, operation, 6–143 VGA Status Display, Software configuration, 5–115	Hardware, address, defined, Glossary-5
Forward switcher. See Data switcher	Hexadecimal-decimal-binary chart, D-1
FPGA, defined, Glossary-5	Horizon
Frame advance, MC–3000, 6–133	General Purpose Interface, connnecting to, 2–21 Physical level no., 5–36
FS–3000. See File server	protocol entry, 5-39
Full function machine control (GUI), 7–20	serial protocol table entry, 5–27 Switcher Description table entries, VI, 5–33
Full function switcher panel (GUI), 7-11	Hot key. See Shortcut key
Full-matrix control, defined, Glossary-5	HRZ, 5–28
	HTTP, defined, Glossary–5
G	Hyphen, in set, table, & device names, 5–7
Gateway, defined, Glossary-5	I
Generate VGA Files, A–2	1
Getting Started guide, xxix, 2-1, 3-1, 5-1	I (entry on switcher input menu), 5-60
GJ-IC455B, 2-25, 2-28, 2-80	I/O Set Editor, 10–1
GNP, 5–29	password, 10–2
GPI-T/CI, 2-21	ICS, defined, Glossary–5
Grass Valley Concerto, Physical level no., 5–36 E–MEM, 2–81 CP Category set type entry, 5–104 CP Input set type entry, 5–63	ID display on CP–3000, 6–21 display on CP–3800, 6–47 display on CP–3808, 6–72 display on CP–3830, 6–72 IF–10, 2–90
CP Output set table entry, 5–80 Horizon	
Physical level no., 5–36 protocol entry, 5–39 Model 102, serial protocol table entry, 5–27	Imaginary switcher, 5–157 Indirect status instruction, 5–60 defined, Glossary–5
Model 200	Input currently in use (error message), 5-42
hardware connections, 2–81	Input Source Assignment, to production switcher, U-1
MPK table entry, 5–129 peripheral bus, operation, 5–131	Inputs
peripheral bus protocol, 5–131	Switcher
serial protocol table entry, 5–27	Entering # of, 5–47
Native Protocol, serial protocol table entry, 5–27	Entering mnemonics for, 5–58, 5–62 Entering name of, 5–47
Streamline, 2–81	Switcher Input table, 5–44
TEN–20, 20–TEN Physical level no., 5–36	Inputs, Switcher, max no. of, 1–27
- · · · · · · · · · · · · · · · · · · ·	

Insert edit, 6–133	K
row, 5–4	KUED protocol. See RP-0000
Installation, 2–1 See also model number of product	Ī
Integrity Instruments, 2–101	-
Interface bus, defined, Glossary-5	L (flashing), on VGA display, 6–142
Internet, xxviii	L4 (Venus level jumper), 5–35
time source, 9–5	Labels, preparing, 2–72
IP address defined, Glossary–10 network devices, 9–3	Lamps Replacing, 2–72 Testing, 2–73 testing. <i>See</i> Diagnostics
JNIA, defined, Glossary–5 JNS Applications, 4–3	LAN Addresses hardware, 5–22 TCP/IP, 9–3 Cable lengths, 2–42 Cable part numbers, 1–23 Disconnecting file server, 5–16 Installation, 2–41
on Remote PC, 4–1	use of non–Jupiter equip, 2–38, 2–41
Board Status, 8–1 Control Center, 5–8, 9–1 Board Info/Control, 9–3 Configuration, 9–6	Lawo See also Dune defined, Glossary–6
Control Console, 4–1	Leave alone, 5–41
CP I/O Set Editor, 10–1	LEV key (CP–3000), 6–14
defined, Glossary–5	• • • • • • • • • • • • • • • • • • • •
Force Unlock/unprotect, 11–1 Logger and Log Viewer, 12–1 Party Line Download, 13–1 Physical Control, 14–1 Physical Remapping, 16–1 Router Control Utility, 17–1 Router Save/Restore, 18–1	Level breakaway, CP–3830, 6–81, 6–94 button CP–3824, 6–84 CP–3832/3864, 6–102 Conversion, 5–171 CP–3800 button, 6–41
Saturn Monitor Follow & Preview, 19–1	defined, Glossary–6
Servers, defined, Glossary–5 TFTP Status, 9–2 Tools, 4–3 Utilities, 4–4	Disabling breakaway to, 5–56 Disabling switching on, 5–56 Mapping, 2–31, 5–37 Max inputs/outputs, 5–34 max. no. of, 1–16, 1–27
JNS Console.ini, 4–2	Physical. See Physical level
Jog, MC-3000, 6-133	Switcher Description table, 5–31
Jupiter	Library CD–ROM, xxix
defined, Glossary–6	Limits, system, 1–18
LE, 1–26 Network Interface Application. <i>See</i> JNIA Network Suite. <i>See</i> JNS Plus, 1–26 XPress. <i>See</i> XPress	Linkage Default, 5–156 defined, Glossary–6 Machines to control panels, 5–151 Panel. See MC–3020L
Jupiter XPress, defined, Glossary-6	Little Cloud, defined, Glossary-6

LMS, 2–82	Machines table, 5–141
Load, Factors, 1–18	MADI, defined, Glossary-6
Lock, 6–12	Mains voltage selection, 2–1
See also Unlock	Manuals, related, xxix
CP-3000 panel, 6-11	Mapping, Logical level, 2–31, 5–37
CP–3020 panel, 6–26 CP–3800, 6–61	Mark, E–1
CP-3808, 6-69	Mark key, MC-3000, 6-132
CP-3824, 6-79	Mars
CP-3830, 6-92	connecting to VM-3000, 2-3
CP–3832, 6–104 defined, Glossary–6	inputs/outputs table entry, 5–34
GUI panel, 7–8	protocol selection, 5–39
Machine control, 6–138	Master control. See MCS–2000; Saturn
Locked pathfinding, 5–204	Matrix Board. See Crosspoint board
Log Viewer, JNS, 12–1	Bus Connecting to, 2–3
Logger, JNS, 12–1	defined, Glossary–6
Logging, defined, Glossary-6	Cable, VDE modifications, 2–11
Logical, Level	Matrix Combiner. See 2x1 Matrix Combiner
Mapping, 2–31, 5–37	MC, 5–33
Name, 5–31 Number, 5–31	MC-12/3, 2-88
Three–stage, H–2	MC-200/900/2095/2098. See Alamar
Logical level mapping, defined. See level	MC-24A, 2-88
Logical level name, defined, Glossary–6	MC-3000
Logical level number, defined, Glossary–6	custom mounting, 1–16
·	Diagnostics, 6–133 Front panel drawing, 6–131
Login, CP–3000 panel, 6–22	Load factor, 1–18
Logout, CP–3000 panel, 6–23	MPK Devices table entry, 5–108
LOS, defined, Glossary–6	operation, 6–131 Rear panel connectors, 1–13
Loss of power, 5–16	Sony Auto–Edit, 6–133
LZR Electronics, 2–46	MC-3010
	Diagnostics, 6–137
M	Front panel drawing, 6–135, 6–136 Load factor, 1–18
IVI	Operation, 6–135
M, in GUI status display, 7–15	Rear panel connectors, 1–13
M board. See CE-3000	MC-3020D
Machine control	Button labels, 2–72 Central control installation, 2–71
CP-3800, 6-45	CP output set entry, 5–80
Devices table, 5–141, 5–148	Front panel, 2–69, 5–164
full function (GUI), 7–20 load factor, 1–19	Installation, 2–69
MCS-2000 linkage, 5-151	Load factor, 1–19 MPK devices table entry, 5–162
slaved (GUI), 7–9	Operation, 6–140
TCS-1 device codes, 5-168	Rear panel connectors, 1–13
using non–Jupiter control panel/computer, 2–97	MC-3020L
Machine Control table, 5–148	Button labels, 2–72

CP input set type entry, 5–63	MI–2003, 2–89
CP input set type entry, 5–63 CP output set entry, 5–80 Front panel drawing, 2–67 Installation, 2–67 Load factor, 1–19 MPK table entry, 5–118 Operation, 6–138 Rear panel connectors, 1–13 MC–3040 back panel drawing, 2–120 hardware connections, 2–97 hardware overview, 2–117 Machine control dev. table entries, 5–159 MPK table entries, 5–117 pin outs, status in / relay contacts, 2–99 reset switch, 2–119 Software configuration Machine control dev. table, 5–159 MPK devices table, 5–117 MCC–3500, load factor, 1–18 MCS–2000 Input/output conversion, 5–170 Machine control Preroll key, 5–150 TCS–1 device codes, 5–168 Machine control linkage, 5–151 Party line levels conversion, 5–171 Protected outputs, 5–53 Protocol Dependent Devices table entry, 5–145	MI-2003, 2-89  MI-3040  Back panel drawing, 2-120  Connection to VTRs, 2-93  GPI/O application ("MI-3040IO"), 5-116  Hardware overview, 2-117  in Saturn Tally systems, 2-109  Load factor, 1-18  Machine control dev. table entries, 5-159  MPK table entries, 5-116  Pin outs, Status in / relay contacts, 2-95  Pin outs, MPK bus, 2-102  Rear panel connectors, 1-12  Reset switch, 2-119  Select/Lock, U-1  Software configuration  Machine control dev. table, 5-159  MPK devices table, 5-116  Tally, Hardware connections, 2-107  tally configuration (Standard tally), 5-174, 5-180  with non-Jupiter machine control panels/computers, 2-97  MI-3040IO, 5-116  MI-8, 2-89  Microsoft programs. See name of program  Microvideo  Physical level no., 5-38  serial protocol table entry, 5-27
MCS-3500. See Saturn	switcher protocol, 5–39 MIDI, defined, Glossary–7
MCS_TLY, 5–182 , 5–186	Mix
MCX 400. <i>See</i> 2x1 Matrix Combiner MDI, 15–1	CP-3800, 6-44 CP-3808, 6-69, 6-74 CP-3830, 6-96, 6-98
defined, Glossary–7	CP-3832/3864, 6-112
Media, Networking, and Control, defined, Glossary-7	CP-3832/64, 6-115, 7-14
Memory Clearing battery–protected, B–1 clearing PMEM, B–1	MNC, defined, Glossary–7 Mnemonic, defined, Glossary–7
MENU CP–3000 button, 6–15 CP–3800 button, 6–45 CP–3808 button, 6–68 CP–3824 button, 6–87 CP–3830 button, 6–96 CP–3832/3864 button, 6–112	Mnemonics Length, max, 5–58 Linking to switcher inputs, 5–58, 5–62 Linking to switcher outputs, 5–76, 5–79 Split, 5–60 Model 200, MPK devices table entry, 5–131
MI interface, 5–168	Modem, connecting to control panel, 2–101
	Monitor bank, Saturn, 19–1
MI-1002, 2-89	Monitor combiner. See VM-400 or DC-400
MI-1003, 2-89	Monitoring, Venus, O–1

MPK Bus	CP–3830 display, 6–98 CP–3832/64 display, 6–115 , 7–14
Baud rate, 5–29 Cable, 2–102 Installation, 2–45 Max devices, 1–18	Novotronic Physical level no., 5–38 serial protocol table entry, 5–27 switcher protocol, 5–39
Max length, 2–102 defined, Glossary–7	NT. See Windows NT
Devices, menu entry, 5–108	NUM-64/128, 5-11
MSL-4000, 2-77	Numeric
Multimedia, Jupiter courses, xxix	Mode, defined, Glossary–7 Set, 5–11
Multiple switcher installations Hardware installation, 2–33 Path finding, 2–35	defined, Glossary–7 Nv, 5–29
Statusing requirements, 5–77	NVISION
Switcher levels table entry, 5–37	connecting to, 2–24 data router
Multipoint, 2–85	serial protocol table entry, 5–27
MVD, 5–28 See also Microvideo	switcher protocol, 5–39 Routing switcher dialect, Matrix–physical level no., 5–38
N	NVT, 5–28 See also Novotronic
Name, rules for set, table, & device names, 5–7	NXS, 5–28 See also Nexus
Native Protocol, 5–29	See tiso Nexus
NEC, xxvii	0
NetBEUI, defined, Glossary-7	
NetBIOS, defined, Glossary-7	Octal, Mars architecture, 5–34
NetLink, 2–101	Odd/even ports, 2–89
Network, board. See LAN card	Off Time, Switcher Description table, 5–43 Offset, 100/400 (switch. desc. table), 5–36, 5–38
Network description menu, 5–22	Option, Switcher Description table. See Data switcher
Network Suite. See JNS	Options, overview, 1–27
Nexus	Opto Change messages, MI 3040 limits, 1–21
Physical level no., 5–38	Opto-isolator, Standard tally, 5–180
serial protocol table entry, 5–27 switcher protocol, 5–39	Optoelectronic relays & optical couplers (MI/MC–3040), 2–117
Nexus Star, Connecting to, 2–30	Ordering information, 1–22
No Active Set, 4–2, 7–6, 10–2	Oshino Electric, 2–72
Node, 2–42 defined, Glossary–7	Output changing on CP–3000, 6–20
Non-sequential path finding Hardware installation, 2–35 Table entry, 5–207	changing on CP–3808, 6–65 monitoring (Venus), O–1 Sets, 5–76
NORM-L/R (CP-3800 display), 6-44	Output monitoring, defined, Glossary-7
NORMAL CP–3808 display, 6–74	Outputs Deleting from expansion panel, 6–24, 6–125

Switcher, Entering mnemonics for, 5–79	CP I/O Set Editor, 10–2
switcher	CP-3000, 6-22
entering # of, 5–52	CP-3808/3830, 6-75
entering name of, 5–52	CP-3832/3864, 6-100
max no. of, 1–27	CP-3832L/3864L, 6-117
password levels, 5–53	Jupiter
status checking, 6–16, 6–69, 6–96	Changing, 5–20
Switcher Output table, 5–51	CP-3800, 6-51
Override	General description, 5–17 levels
Board, 9–4	control panels, 5–114
CP-3800, 6-53	switcher outputs, 5–53
defined, Glossary–7	MCS-2000 outputs, 5-53
Defining at CP–3000, 6–21	•
Input selection, 6–7	Path finding auto analog–digital conversion, 5–203
Sets, 5–98	defined, Glossary–8
	Hardware installation, 2–35
P	locked groups, 5–204
Г	multimedia course, xxix
P (entry on switcher input menu), 5–60	Non-sequential table entry, 5-207
	Sequential table entry, 5–196
P (flashing), on VGA display, 6–142	Three or more switchers, 5–200
P board. See PL-3000	VGA display, A–10
Page file name, 5–173	Paths Full, message on GUI panel, 7–8
Pan Name, CP-3832/3864, 6-112	PC
Paper, technical, 2–107	as file server. <i>See</i> File server connecting to VM/SI–3000, 2–38
Parallel, VTRs, 2–89	remote unit, G-1
Parenthesis, in set, table, & device names, 5–7	connecting to LAN, 2–38
Parity, MPK, Glossary–7	defined, Glossary–8 JNS applications, 4–1
•	11
Part numbers, 1–22	PC–3000. <i>See</i> File server
Parts, spare, xxviii	PCB-2600/2650/2800, 2-82
Party Line, serial protocol table entry, 5–27	PCI, defined, Glossary–8
Party line	Physical
defined, Glossary–7	diagnostic, 15–1 Input number, 5–44
Description menu, 5–169	level
Extended/super, 5–169	Alpha switcher, 5–38
Input/output tables, 5–170 Levels conversion, 5–171	Concerto, 5–36
Polling number, 5–169	Datatek switcher, 5–38
redundant VM–3000s, 2–4 , K–1	defined, Glossary-6
Utah Scientific, connecting to, 2–25	ESbus switcher, 5–38
•	Horizon, 5–36
Party Line (UDI–1B), serial protocol table entry, 5–27	Microvideo switcher, 5–38
Party Line Download, 13–1	Nexus switcher, 5–38
PASS =	Novotronic switcher, 5–38
CP-3808/3830, 6-75	NVISION router, 5–38
CP-3832/3864, 6-100	RKX switcher, 5–37
CP-3832L/3864L, 6-117	TEN-20, 20-TEN, 5-36 three-stage, H-2
Password	Triton, 5–36
and automation, 5–53	TVS/TAS, 5–37

Utah Scientific, 5–38 Venus, 5–35 Vistek Array, 5–38	PROMs, 2–3 1200/2400 baud for MPK control panel, 5–29 TCS–1, 2–88
Physical Control, JNS, 14–1	Protect, 6–12
Physical Remapping Utility, 16–1	See also Unprotect
PL, 5–29	CP–3000, 6–9 CP–3800, 6–61
PL- 320, 2-27	CP-3808, 6-70
PL-3000, P-1	CP–3824, 6–79 CP–3830, 6–92
PL-320, serial protocol table entry, 5–27	CP-3832/3864, 6-103
Play key, MC-3000, 6-132	CP–3832L, 6–119 CP–3864L, 6–119
PMEM clearing, B–1 after modifying tables, 5–22 defined, Glossary–8	defined, Glossary–8 GUI panel, 7–8 MCS–2000 outputs, 5–53
Point-to-point, 2–85	Protocol Dependent Devices, 5–144
Switching, 5–41	Protocol Dependent Devices table, 5–144
Polling and polling names, defined, Glossary–8	PS–20, 2–46 SD–3x application, 2–122
Polling number, 5–169	PS-300, Q-1
Pop–up menu, 5–3	Publications, related, xxix
Post Mortem, 9–4	Punctuation, in set, table, & device names, 5-7
Power Line (voltage) selection, 2–1 Loss, 5–16 Supply, control panels, 1–16	PURS, 5–29
Power adapter (AC), Q–1	Q
PowerPoint, Jupiter courses, xxix	QD8, V-1
PPM, defined, Glossary–8	QNX, R-1
Pre-wired, H-7	Quick start manual, xxix, 2-1, 3-1, 5-1
Preroll, 5–150, 6–132, E–1	
Preset, Saturn Monitor Follow & Preview, 19-1	R
Primary status instruction, 5–60	R, in GUI status display, 7–15
defined, Glossary–8	Rack mounting, 2–2
Printer command on Compile window, 5–13	Radiation, xxvi
commands on Options menu, 5-16	RCI, defined, Glossary-8
hardware connection, 2–39	RCMC, defined, Glossary-8
Pro-bel, 1–8 connecting to, 2–24	Re-legendable button kit, 5-103
serial protocol table entry, 5–27	Ready key, MC-3000 panel, 6-132
switcher protocol, 5–39	Reboot
Probe connector and cable, C–1	Board Info/Control menu, 9–4 VM/SI–3000/Saturn, B–1
Production switcher. See Switcher, production	Record
Program restart, B–1	In key, MC-3000, 6-133
Prompting, CP–3800, 6–51	Mode key, MC–3000, 6–133

Out key, MC–3000, 6–132	dimensions, 1–16
Redundant 2x1 Matrix Combiner. See 2x1 Matrix Combiner VM/SI–3000. See VM/SI redundant installation	general description, 1–6 hardware installation, 2–121 MPK table entry, 5–120 Rear panel connectors, 1–14
Refresh, defined, Glossary–8	Software configuration, CP Level set, 5–56
Regulatory Compliance Notices, xxvi	software configuration, 5–118 RPX, 5–29
Relay descriptions (Standard tally), 5–174	RS-232/422 converter
Relays (MI/MC–3040), 2–118	control panel connection, 2–101
Remapping, 16–1 Remote	Utah Scientific connection, 2–25 Vistek connection, 2–28
PC. See PC remote unit	RS-232/422/423, switching. See Data switcher
switcher, defined, Glossary–8 switcher (non–Crosspoint Bus), load factor, 1–19 switcher (third party), connecting to, 2–12	RS-422 Cable, Connection to VM/SI-3000, 2-102 defined, Glossary-9
Repeater, 2–42 defined, Glossary–8	rsv files, 18–1
Reset, VM/SI-3000, B-1	RV, 5–33
Restart File server, B–1 Program, B–1	<b>S</b>
Retained level, Glossary–9	S (flashing), on VGA display, 6–142
Retained levels. See Sticky levels	S board. See SC-3000
Returning merchandise, 2–1	S-T (on Swit. out menu), 5–52 Safe input, 5–42, 5–43
Reverse, CP-3832/3864, 6-112	Safe off time, Switcher Description table, 5–43
Reverse switcher	Safe time, Switcher Description table, 5–43
See also Data switcher defined, Glossary–9	Safety notices, xxvii
Rewind, MC–3000, 6–133	Salvo panel (GUI), 7–26
RFI modifications, 2–11, 2–103	Salvo, defined, Glossary–9
RGB switcher, Level menu entry, 5–38	Saturn
RKX	clearing battery–protected memory, B–1, B–2
Physical level no., 5–37 switcher protocol, 5–39	connecting to Jupiter, 2–104 CP I/O Set Editor, with, 10–1 force download, B–2
RL11A, 2–46	MCC-3500 Control Console, load factor, 1-18
Root directory, 4–1	Monitor Follow & Preview, 19–1 Reset, B–1
Router. See Switcher, distribution	software version, 8–2
Router Control Utility, 17–1	Source (category) keys, 5–105 status check, 8–1, 9–1
Router Save/Restore utility, 18–1	tally, 2–104
Row editing, 5–4	Save/Restore utility, 18-1
RP 1/2/3 UMD	SB, entry on Net Description table, 5-24
Bus loading, 1–19 CP Category set type entry, 5–104	SC-3000, P-1
CP category set type entry, 5–104 CP input set type entry, 5–63	Scan rate, 9–5
CP output set entry, 5–81	SCP, defined, Glossary–9

SCT, 5–29	MPK bus installation, 2–45
SD-3x	protocol table, 5–25
Bus loading, 1–19	VTRs, 2–83
dimensions, 1–16	SERIM, 2–20
DIP switches, 2–121	Server, defined, Glossary-9
general description, 1–6	·
Hardware installation, 2–121	Service information, xxviii
Rear panel connectors, 1–14	Set mark, E–1
Software configuration	Set mark key, 5–150
CP Input set, 5–63 CP Level set, 5–56	MC-3000, 6-132
CP Output set, 5–81	Sets. See Configuration sets
Permanent display, 5–128	•
With MCS–2000, 5–122	Setup, Router Save/Restore, 18–1
with non-Saturn MCS or production switcher, 5-125	Shuttle, MC-3000, 6-133
	SI-3000
software configuration, 5–118	clearing battery–protected memory, B–1
technical manual, xxix	clearing flash memory, B–2
SDR-400	Connecting to VTRs, 2–83
connecting to VM-3000, 2-3	Controls, indicators, connectors, 1–11
Protocol selection, 5–39	devices per bus, max, 1–18
Search	DIP switches, 2–2
Cue, MC-3000, 6-132	force download, B–2
Mark, E-1	front panel (drawing), 1–10, C–1, S–1
mark key	LED error codes, S-1
MC-3000, 6-132	network address switches, 2–39
MCS-2000, 5-150	Odd/even ports, 2–89 Pin outs, serial ports, 2–102
Security board, 5–51	Protocol table, 5–25
•	rear panel (drawing), 1–10
Segment, 2–42 defined, Glossary–9	redundant
·	cable, 2–8
Select, key, CP-3010, 6-134	hardware installation, 2–86
Selected, set, 5–8	installation, software configuration, 5–24
Semi-permanent linkage, 5–156	kit, 2–87
•	manual changeover, K–1
Sequence sets, 5–101	system preloading, K–2
Sequences	Reset, B–1 software version, 8–2
CP-3000, 6-17	status check, 8–1, 9–1
CP-3800, 6-57	
Sequencing, defined, Glossary-9	Siemens, 2–72
Sequential path finding	Single-bus, defined, Glossary-9
Hardware installation, 2–35	Slant, in set, table, & device names, 5–7
Table entry, 5–196	Slashes, in set, table, & device names, 5-7
Serial	Slaved machine control (GUI), 7-9
Bus, defined, Glossary–9 CP Category set type entry, 5–104	Slow motion play, MC-3000, 6-132
CP input set type entry, 5–63	SMPTE
CP output set type entry, 5–80	259M–1997, defined, Glossary–9
Data cable, 2–102	269M–1999, defined, Glossary–9
VDE modifications, 2–103	274M–1998, defined, Glossary–9
machine control, load factor, 1–19	292M–1998, defined, Glossary–10

SMS 7000 connecting to, 2–16 serial protocol table entry, 5–29 SNMP, defined, Glossary–10 Snowbird, defined, Glossary–10 SNY, 5–29 Software	Mnemonics, 5–60 switching, 5–46 and Level menu entry, 5–38 CP–3000, 6–14 CP–3800, 6–41 CP–3808, 6–67 CP–3830, 6–81, 6–94 CP–3832/3864, 6–101
Configuration Editor, 5–1	Spreadsheet, 5–6
Installation, 3–1	Star. See Nexus
upgrade, 3–1 version. See Version information	Start bit, MPK, Glossary-7
Software Control Panel Suite, 7–1	Start Board Override, 9-4
dubs panel, 7–22	State PROMs, 2–3
full function machine control, 7–20 full function switcher panel, 7–11 audio switching modes, 7–14 license floppy, 7–1 salvo panel, 7–26 slaved machine control, 7–9 source/destination panel, 7–24 X–Y panel, 7–29	Status defined, Glossary–10 display under monitor. See SD–3x VG–3000. See VG–3000 VGA, A–1 See also VGA Status Display header table, 5–172
Sony	Multiple switcher installations, 5–77
Auto-Edit mode, 6-133 Betacart, 2-82 BVH-1000, 2-82 BVH-1100, 2-82 BVH-2000, 2-82 BVH-2500, 2-82 BVU-800, 2-82 BVW-10, 2-82 BVW-40, 2-82	Stereo CP–3000 switching modes, 6–18 CP–3800 switching modes, 6–43 CP–3808 switching modes, 6–74 CP–3830 switching modes, 6–96, 6–98 CP–3832/3865 status, 6–112 CP–3832/64 switching modes, 6–115 GUI panel switching modes, 7–14 Venus, Level jumper, 5–35
IF–10, 2–90, 2–93 machine control bus, 2–83	Sticky display (CP-3800), 6-50
cable, 2–102 serial protocol table entry, 5–27 max VTRs per port, 1–19 Protocol to ESbus protocol, F–2 router, serial protocol table entry, 5–29 switcher protocol, 5–39	Sticky levels 300 Series panels, 6–1 CP–3824, 6–83 CP–3832/3864, 6–102 defined, Glossary–10 entry on MPK devices table, 5–109
Source Assignment, input to production switcher, U-1	Stop bit, MPK, Glossary-7
Source/destination panel (GUI), 7-24	Stop key, MC-3000, 6-132
Space, in set, table, & device names, 5–7	Streamline. See Grass Valley
Spaces, 5–3	Sundance, defined, Glossary-10
Spare parts, xxviii	Super
SPD, defined, Glossary-10	Crosspoint bus, 2–3 defined, Glossary–3
SPDIF, defined, Glossary-10	Party line, 5–169
Specifications, 1–9	defined, Glossary–7
Split	Support package, 5–16
defined, Glossary–10	SW 2500, 1–26

Switch rate, 1–19 Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 Switcher, data matrix, 2–32 Switcher, see Mathage Controlling with external computer, 2–77 crosspoint bus control, connecting to, 2–3 Datanek, See Datanek Disabling a level, 5–56 ESbus Physical level no, 5–38 Serial Protocol table entry, 5–27 Grass Valley, See Grass Valley Inputs Entering mnemonics for, 5–58 Namus, length of, 5–44 Microvidco, See Microvidco Multiple switcher installations Status, 5–77 Switcher Levels table entry, 5–37 Newus, See Nexus Novotronic, See Novotronic NVISION, See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3000, 6–60 Selecting on CP–3000, 6–60 Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel, See Pro-bel RKX, See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–3 Table laminted, 5–6 Table laminted, 5–6 Table names, rules for, 5–7 TakE key, Expansion panel, Deleting output from, 6–24 Take/select key (CP–3010), Machine control, 6–134 Take/select key (CP–3010), Machine contro	SW 3100, 1–26	Vertical interval, 5–32
Switcher Dutput table, 5–51  Switcher, data matrix, 2–32  Switcher, distribution 100/400 offset, 5–36, 5–38 Alpha Image. See Alpha Image Controlling with external computer, 2–77 crosspoint bus control, connecting to, 2–3 Datatek. See Datatek Disabling a level, 5–56 ESbus Physical level no., 5–38 Scrial Protocol table entry, 5–27 Grass Valley, See Grass Valley Inputs Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Nevustronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3000, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bed. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Juput table, 5–44 Switcher Output table, 5–44 Switcher Output table, 5–54 Switcher plant table, 5–44 Switcher Output table, 5–51 Switcher plant table, 5–44 Switcher Output table, 5–51 Switcher plant table, 5–44 Switcher Output table, 5–51 Switcher plant table, 5–51 Switcher production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Sync	Switch rate, 1–19	Syntax, naming rules for sets, tables, CPs, etc., 5-7
Switcher, Output table, 5–51  Switcher, data matrix, 2–32  Switcher, distribution  100/400 offset, 5–36, 5–38 Alpha Image. See Alpha Image Controlling with external computer, 2–77 crosspoint bus control, connecting to, 2–3 Datatek. See Datatek Disabling a level, 5–56 ESbus Physical level no., 5–38 Scrial Protocol table entry, 5–27 Grass Valley, See Grass Valley Inputs Entering mncmonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3008, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 Switcher Spy physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Symc	Switcher Description table, 5–31	System limits, VM/SI loading, 1–18
Switcher, data matrix, 2–32  Switcher, data matrix, 2–32  Switcher, data matrix, 2–32  Switcher, distribution  100/400 offset, 5–36, 5–38 Alpha Image. See Alpha Image Controlling with external computer, 2–77 crossopint bus control, connecting to, 2–3 Datatek. See Datatek Disabling a level, 5–56 ESbus Physical level no., 5–38 Serial Protocol table entry, 5–27 Grass Valley Inputs Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NISION Output Selecting on CP–3000, 6–20 Selecting on CP–3000, 6–20 Selecting on CP–3000, 6–50 Selecting on CP–3000, 6–50 Selecting on CP–3000, 6–50 Multiple switcher installations, 5–75 Switcher Description table, 5–51 Switcher postput table, 5–51 Switcher production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Symcol Description table, 5–14 Tricon, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync	Switcher Input table, 5–44	
Switcher, distribution  100/400 offset, 5-36, 5-38 Alpha Image. See Alpha Image Controlling with external computer, 2-77 crosspoint bus control, connecting to, 2-3 Datatek. See Datatek Disabling a level, 5-56 ESbus Physical level no., 5-38 Serial Protocol table entry, 5-27 Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5-58 Names, length of, 5-44 Microvideo. See Microvideo Multiple switcher installations Status, 5-77 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP-3000, 6-20 Selecting on CP-3808, 6-65 outputs, password levels, 5-53 physical, input number, 5-44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2-12 Status Checking, 6-16, 6-69, 6-96 Multiple switcher installations, 5-77 switcher Description table, 5-31 Switcher post prior table, 5-31 Switcher post probable, 5-31 Switcher post probable probable, 5-31 Switcher post probable, 5-31 Sw	Switcher Output table, 5–51	Т
Individuo offset, 5-36, 5-38 Alpha Image. See Alpha Image Controlling with external computer, 2-77 crosspoint bus control, connecting to, 2-3 Datatek, See Datatek Disabling a level, 5-56 ESbus Physical level no., 5-38 Serial Protocol table entry, 5-27 Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5-58 Names, length of, 5-44 Microvideo, See Microvideo Multiple switcher installations Status, 5-77 Switcher levels table entry, 5-37 Nexus, See Nexus Novotronic, See Novotronic NVISION, See NVISION Output Selecting on CP-3000, 6-20 Selecting on CP-3808, 6-65 outputs, password levels, 5-53 physical, input number, 5-44 Pro-bel, See Pro-bel RKX, See RKX serial connection, 2-12 Status Checking, 6-16, 6-69, 6-96 Multiple switcher installations, 5-77 Switcher Description table, 5-31 Switcher Description table, 5-31 Switcher Description table, 5-51 switching by physical connector number, 14-1 Trition, Connecting to, 2-14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U-1 Symbols, in set, table, & device names, 5-7 Sync	Switcher, data matrix, 2–32	T/CI, 2–21
Alpha Image. See Alpha Image Controlling with external computer, 2–77 crosspoint bus control, connecting to, 2–3 Datatek. See Datatek Disabling a level, 5–56 ESbus Physical level no., 5–38 Serial Protocol table entry, 5–27 Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Input table, 5–31 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync		Tab-delimited, 5–6
Controlling with external computer, 2-77 crosspoint bus control, connecting to, 2-3 Datatek. See Datatek Disabling a level, 5-56 ESbus Physical level no., 5-38 Serial Protocol table entry, 5-27 Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5-58 Names, length of, 5-44 Microvideo. See Microvideo Multiple switcher installations Status, 5-77 Switcher levels table entry, 5-37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP-3000, 6-20 Selecting on CP-3008, 6-65 outputs, password levels, 5-53 physical, input number, 5-44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2-12 Status Checking, 6-16, 6-69, 6-96 Multiple switcher installations, 5-77 Switcher Description table, 5-31 Switcher Input table, 5-43 Switcher Output table, 5-5-1 switching by physical connector number, 14-1 Triton, Connecting to, 2-14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U-1 Symbols, in set, table, & device names, 5-7 Sync		Table names, rules for, 5–7
crosspoint bus control, connecting to, 2-3 Datatek. See Datatek Disabling a level, 5-36 ESbus Physical level no., 5-38 Scrial Protocol table entry, 5-27 Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5-58 Names, length of, 5-44 Microvideo. See Microvideo Multiple switcher installations Status, 5-77 Switcher levels table entry, 5-37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP-3000, 6-20 Selecting on CP-3808, 6-65 outputs, password levels, 5-53 physical, input number, 5-44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2-12 Status Checking, 6-16, 6-69, 6-96 Multiple switcher installations, 5-77 Switcher Description table, 5-31 Switcher Output table, 5-51 switching by physical connector number, 14-1 Triton, Connecting to, 2-14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U-1 Symbols, in set, table, & device names, 5-7 Sync		TAKE key Expansion panel Deleting output from 6–24
Datatek. See Datatek Disabling a level, 5–56 ESbus Physical level no., 5–38 Serial Protocol table entry, 5–27 Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3000, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–54 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Sync		• • • • • • •
Disabling a level, 5–56 ESbus Physical level no., 5–38 Serial Protocol table entry, 5–27 Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus, See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Sync		• •
Physical level no., 5–38 Serial Protocol table entry, 5–27 Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–31 Switcher production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Sync	Disabling a level, 5–56	· · · · · · · · · · · · · · · · · · ·
Serial Protocol table entry, 5–27 Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3000, 6–20 Selecting on CP–3000, 6–53 Outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Sync	ESbus	
Grass Valley. See Grass Valley Inputs Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Synce  Hardware connections, 2–107 multi-level (air+preview+iso)(red+yellow+green), 2–107 multimedia course, xxix output, 2–107 saturn Tally, 2–107 software connection, 2–110 MPK Devices table, 5–116 Relay Description table, 5–116 Relay Description table, 5–180  Tape Drives. See HP 9144A (1/4 in) or HP 6400/2000 (DAT) Machines. See Audio carts or VTRs monitor mode, MC–3000, 6–132  TCP/IP See also IP address defined, Glossary—10 TCS–1 Cable to controllers, 2–91 Command and status bits, I–1 CP bus, 2–89 MI bus, Connection, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 MI bus, Connection, 2–89 PROMs, 2–88 MI bus, Connection, 2–89 PROMs, 2–89 MI bus, Connection, 2–89 PROMs, 2–89 Translator, I–1 TCS–1/2, Serial protocol table entry, 5–145 Thumbwheel settings, 5–168 Translator, I–1 TCS–1/2, Serial protocol table entry, 5–145	· · · · · · · · · · · · · · · · · · ·	
Inputs Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic, See Nototronic NVISION. See NVISION Output Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Synce  multi-level (air+preview+iso)(red+yellow+green), 2–107 multimedia course, xxix output, 2–107 Saturn Tally, 2–107 software configuration, 2–110 MPK Devices table, 5–116 Relay Description table, 5–180 Tape Drives. See HP 9144A (1/4 in) or HP 6400/2000 (DAT) Machines. See Audio carts or VTRs monitor mode, MC–3000, 6–132 TCS/1 See also IP address defined, Glossary–10 TCS-1 Cobsument and status bits, 1–1 CP bus, 2–89 Mil bus, Connection, 2–89 PROMs, 2–88 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 Translator, 1–1 TCS-1/2, Serial protocol table entry, 5–27 TCS-2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145		
Entering mnemonics for, 5–58 Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NOVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Description table, 5–31 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7 Sync	·	
Names, length of, 5–44 Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Sync		
Microvideo. See Microvideo Multiple switcher installations Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Duput table, 5–51 switcher Input table, 5–14 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync		multimedia course, xxix
Multiple switcher installations Status, 5-77 Switcher levels table entry, 5-37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP-3000, 6-20 Selecting on CP-3808, 6-65 outputs, password levels, 5-53 physical, input number, 5-44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2-12 Status Checking, 6-16, 6-69, 6-96 Multiple switcher installations, 5-77 Switcher Description table, 5-31 Switcher Description table, 5-31 Switcher Input table, 5-51 switching by physical connector number, 14-1 Triton, Connecting to, 2-14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U-1  Symbols, in set, table, & device names, 5-7  Sync  MPK Devices table, 5-116 Relay Description table, 5-117 Relay Description table, 5-1180  Tape  Triton, Connecting to, 2-12 Symbols, in set, table, & device names, 5-7  Sync  MPK Devices table, 5-116 Relay Description table, 5-117 Tally Dependency table, 5-147 Tally Dependency table, 5-180  Tape  Triton, Connecting to, 2-14 Utah Scientific  Saturn 1ally, 2-10 MPK Devices table, 5-116 Relay Description table, 5-148 Tally Dependency table, 5-180  Tape  Drives. See HP 9144A (1/4 in) or HP 6400/2000 (DAT)  Machines. See Audio carts or VTRs monitor mode, MC-3000, 6-132  TCP/IP  See also IP address defined, Glossary-10  TCS-1 CP bus, 2-89 defined, Glossary-10 Device codes menu, 5-168 interface to Jupiter, 2-89 MI bus, Connection, 2-89 PROMs, 2-88  Translator, I-1  TCS-1/2, Serial protocol table entry, 5-145  TCS-2 defined, Glossary-10 Protocol Dependent Devices table entry, 5-145		
Status, 5–77 Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic, See Novotronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–51 switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientiffic. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1 Symbols, in set, table, & device names, 5–7 Sync		•
Switcher levels table entry, 5–37 Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP–3000, 6–20 Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1 Sync		
Nexus. See Nexus Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP-3000, 6-20 Selecting on CP-3808, 6-65 outputs, password levels, 5-53 physical, input number, 5-44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2-12 Status Checking, 6-16, 6-69, 6-96 Multiple switcher installations, 5-77 Switcher Description table, 5-31 Switcher Output table, 5-44 Switcher Output table, 5-51 switching by physical connector number, 14-1 Triton, Connecting to, 2-14 Utah Scientific. See Utah Scientific Switcher, production See also Specific model Input Source Assignment, U-1 Sync  Retaly Description table, 5-180 Tally Dependency table, 5-180  Tapp Drives. See HP 9144A (1/4 in) or HP 6400/2000 (DAT) Machines. See Audio carts or VTRs monitor mode, MC-3000, 6-132  TCP/IP See also IP address defined, Glossary-10  TCS-1 Cable to controllers, 2-91 Command and status bits, I-1 CP bus, 2-89 defined, Glossary-10 Device codes menu, 5-168 interface to Jupiter, 2-89 MI bus, Connection, 2-89 PROMs, 2-88 Protocol Dependent Devices table entry, 5-145 Thumbwheel settings, 5-168 Translator, I-1 TCS-1/2, Serial protocol table entry, 5-27 TCS-2 defined, Glossary-10 Protocol Dependent Devices table entry, 5-145		
Novotronic. See Novotronic NVISION. See NVISION Output Selecting on CP-3000, 6-20 Selecting on CP-3808, 6-65 Outputs, password levels, 5-53 physical, input number, 5-44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2-12 Status Checking, 6-16, 6-69, 6-96 Multiple switcher installations, 5-77 Switcher Description table, 5-31 Switcher Input table, 5-44 Switcher Output table, 5-51 switching by physical connector number, 14-1 Triton, Connecting to, 2-14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U-1 Symbols, in set, table, & device names, 5-7 Sync  Tape Drives. See HP 9144A (1/4 in) or HP 6400/2000 (DAT) Machines. See Audio carts or VTRs monitor mode, MC-3000, 6-132  TCP/IP See also IP address defined, Glossary-10  TCS-1 Cable to controllers, 2-91 Command and status bits, I-1 CP bus, 2-89 defined, Glossary-10 Device codes menu, 5-168 interface to Jupiter, 2-89 MI bus, Connection, 2-89 PROMs, 2-88 Protocol Dependent Devices table entry, 5-145 Thumbwheel settings, 5-168 Translator, I-1 TCS-1/2, Serial protocol table entry, 5-27 TCS-2 defined, Glossary-10 Protocol Dependent Devices table entry, 5-145		
Output Selecting on CP-3000, 6-20 Selecting on CP-3808, 6-65 Outputs, password levels, 5-53 physical, input number, 5-44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2-12 Status Checking, 6-16, 6-69, 6-96 Multiple switcher installations, 5-77 Switcher Description table, 5-31 Switcher Input table, 5-44 Switcher Output table, 5-51 switching by physical connector number, 14-1 Triton, Connecting to, 2-14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U-1 Sync  Drives. See HP 9144A (1/4 in) or HP 6400/2000 (DAT) Machines. See Audio carts or VTRs monitor mode, MC-3000, 6-132  TCP/IP See also IP address defined, Glossary-10 TCS-1 Cable to controllers, 2-91 Command and status bits, I-1 CP bus, 2-89 defined, Glossary-10 Device codes menu, 5-168 interface to Jupiter, 2-89 MI bus, Connection, 2-89 PROMs, 2-88 Protocol Dependent Devices table entry, 5-145 Thumbwheel settings, 5-168 Translator, I-1 TCS-1/2, Serial protocol table entry, 5-27 TCS-2 defined, Glossary-10 Protocol Dependent Devices table entry, 5-145	Novotronic. See Novotronic	• • •
Selecting on CP–3000, 6–20 Selecting on CP–3808, 6–65 outputs, password levels, 5–53 physical, input number, 5–44 Pro–bel. See Pro–bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Sync  Machines. See Audio carts or VTRs monitor mode, MC–3000, 6–132  TCP/IP See also IP address defined, Glossary–10  TCS–1 Cable to controllers, 2–91 Command and status bits, I–1 CP bus, 2–89 defined, Glossary–10 Device codes menu, 5–168 interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 Translator, I–1  TCS–1  TCS–1 Cable to controllers, 2–91 Command and status bits, I–1 CP bus, 2–89 defined, Glossary–10  Protocol Dependent Devices table entry, 5–145  TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145	NVISION. See NVISION	
Selecting on CP-3808, 6-65 outputs, password levels, 5-53 physical, input number, 5-44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2-12 Status Checking, 6-16, 6-69, 6-96 Multiple switcher installations, 5-77 Switcher Description table, 5-31 Switcher Input table, 5-44 Switcher Output table, 5-51 switching by physical connector number, 14-1 Triton, Connecting to, 2-14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U-1  Sync  monitor mode, MC-3000, 6-132  TCP/IP See also IP address defined, Glossary-10 Cable to controllers, 2-91 Command and status bits, I-1 CP bus, 2-89 defined, Glossary-10 Device codes menu, 5-168 interface to Jupiter, 2-89 MI bus, Connection, 2-89 PROMs, 2-88 Protocol Dependent Devices table entry, 5-145 Thumbwheel settings, 5-168 Translator, I-1  TCS-1  Cable to controllers, 2-91 Command and status bits, I-1 CP bus, 2-89 defined, Glossary-10  Triton, Connecting to, 2-14 Triton, Connection, 2-15 Triton, Connection, 2-15 Triton, Connection, 2-16 Tos-16 Triton, Connection, 2-16 Tos-17 Triton, Connection, 2-16 Tos-16 Triton, Connection, 2-16 Trito	•	
outputs, password levels, 5–53 physical, input number, 5–44 Pro–bel. See Pro–bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also specific model Input Source Assignment, U–1  Sync  TCP/IP See also IP address defined, Glossary–10 Cable to controllers, 2–91 Command and status bits, I–1 CP bus, 2–89 defined, Glossary–10 Device codes menu, 5–168 interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 Translator, I–1 TCS–1/2, Serial protocol table entry, 5–27 TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145		
physical, input number, 5–44 Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific Switcher, production See also IP address defined, Glossary–10 Command and status bits, I–1 CP bus, 2–89 defined, Glossary–10 Device codes menu, 5–168 interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 Translator, I–1 TCS–1/2, Serial protocol table entry, 5–27  TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145  TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145	<u> </u>	
Pro-bel. See Pro-bel RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  TCS-1 Cable to controllers, 2–91 Command and status bits, I–1 CP bus, 2–89 defined, Glossary–10 Device codes menu, 5–168 interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 TCS-1/2, Serial protocol table entry, 5–27 TCS-2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145		
RKX. See RKX serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  TCS–1  Cable to controllers, 2–91 Command and status bits, I–1 CP bus, 2–89 defined, Glossary–10 Device codes menu, 5–168 interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 Translator, I–1  TCS–1/2, Serial protocol table entry, 5–27  TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145		
serial connection, 2–12 Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  Cable to controllers, 2–91 Command and status bits, I–1 CP bus, 2–89 defined, Glossary–10 Device codes menu, 5–168 interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 TCS–1/2, Serial protocol table entry, 5–27  TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145		•
Status Checking, 6–16, 6–69, 6–96 Multiple switcher installations, 5–77 Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  Cable to controllers, 2–91 Command and status bits, I–1 CP bus, 2–89 defined, Glossary–10 Device codes menu, 5–168 interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 TCS–1/2, Serial protocol table entry, 5–27  TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145		
Checking, 6–16, 6–69, 6–96  Multiple switcher installations, 5–77  Switcher Description table, 5–31  Switcher Input table, 5–44  Switcher Output table, 5–51  switching by physical connector number, 14–1  Triton, Connecting to, 2–14  Utah Scientific. See Utah Scientific  Switcher, production  See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  CP bus, 2–89  defined, Glossary–10  Device codes menu, 5–168  interface to Jupiter, 2–89  MI bus, Connection, 2–89  PROMs, 2–88  Protocol Dependent Devices table entry, 5–145  Thumbwheel settings, 5–168  Translator, I–1  TCS–1/2, Serial protocol table entry, 5–27  TCS–2  defined, Glossary–10  Protocol Dependent Devices table entry, 5–145	•	
Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  defined, Glossary–10 Device codes menu, 5–168 interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 Translator, I–1  TCS–1/2, Serial protocol table entry, 5–27  TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145	Checking, 6–16, 6–69, 6–96	
Switcher Description table, 5–31 Switcher Input table, 5–44 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  Device codes menu, 5–168 interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 Translator, I–1  TCS–1/2, Serial protocol table entry, 5–27 TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145	Multiple switcher installations, 5–77	
Switcher Input table, 5–44 Switcher Output table, 5–51 switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  interface to Jupiter, 2–89 MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 Translator, I–1  TCS–1/2, Serial protocol table entry, 5–27 TCS–2 defined, Glossary–10 Protocol Dependent Devices table entry, 5–145	•	
switching by physical connector number, 14–1 Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  MI bus, Connection, 2–89 PROMs, 2–88 Protocol Dependent Devices table entry, 5–145 Thumbwheel settings, 5–168 TCS–1/2, Serial protocol table entry, 5–27 TCS–2  defined, Glossary–10 Protocol Dependent Devices table entry, 5–145		
Triton, Connecting to, 2–14 Utah Scientific. See Utah Scientific  Switcher, production See also specific model Input Source Assignment, U–1  Symbols, in set, table, & device names, 5–7  Sync  Triton, Connecting to, 2–14 Protocol Dependent Devices table entry, 5–145  Thumbwheel settings, 5–168  Translator, I–1  TCS–1/2, Serial protocol table entry, 5–27  TCS–2  defined, Glossary–10 Protocol Dependent Devices table entry, 5–145	<u> •</u>	
Utah Scientific. See Utah Scientific  Thumbwheel settings, 5–168  Switcher, production  See also specific model Input Source Assignment, U–1  TCS-1/2, Serial protocol table entry, 5–27  TCS-2  Symbols, in set, table, & device names, 5–7  Sync  Totool Dependent Devices table entry, 5–145  Frotocol Dependent Devices table entry, 5–145		
Switcher, production  See also specific model Input Source Assignment, U-1  Symbols, in set, table, & device names, 5-7  Sync  Translator, I-1  TCS-1/2, Serial protocol table entry, 5-27  TCS-2  defined, Glossary-10  Protocol Dependent Devices table entry, 5-145		
See also specific model Input Source Assignment, U-1  Symbols, in set, table, & device names, 5-7  Sync  TCS-1/2, Serial protocol table entry, 5-27  TCS-2  defined, Glossary-10  Protocol Dependent Devices table entry, 5-145		
Input Source Assignment, U–1  TCS–2  Symbols, in set, table, & device names, 5–7  Sync  TCS–2  defined, Glossary–10  Protocol Dependent Devices table entry, 5–145		Translator, I–1
Symbols, in set, table, & device names, 5–7  Sync  TCS-2  defined, Glossary–10  Protocol Dependent Devices table entry, 5–145	•	TCS-1/2, Serial protocol table entry, 5-27
Symbols, in set, table, & device names, 5–7 defined, Glossary–10 Sync Protocol Dependent Devices table entry, 5–145	Input Source Assignment, U-1	TCS-2
Sync	Symbols, in set, table, & device names, 5–7	defined, Glossary-10
		-

Tee cover, 2–44	Timeout, MPK, Glossary–7
Television Systems Limited, V-1	Tools
Telnet, 9–4	Generate VGA Files, A–2 Zip/Unzip, 5–15
TEN, 5-28	TRI, 5–29
TEN-20 / 20-TEN, Switcher Description table entries, VI, 5-33	Tributary defined, Glossary–11
Ten-20 / 20-Ten, Physical level no., 5-36	ESbus. See ESbus tributary
TEN-20, 20-TEN protocol entry, 5-39 serial interface, connecting to, 2-20	VTR, DM 400B, 5–49  Trinix connecting to VM–3000, 2–3 Switcher Description table entries, protocol, 5–39
Termination, LAN terminators Installation, 2–42 Part number, 2–41	Triton connecting to VM-3000, 2-14
Test. See Diagnostics	front–panel controls, not statused by Jupiter, 2–15 Serial Control Kit, 2–14
TFTP, 9–2	Serial Protocol table entry, 5–27
Thin net  See also LAN  Cable part numbers, 1–23  cable type, 1–14  Installation, 2–41	Switcher Description table entries audio/video/data, 5–40 level, 5–36 protocol, 5–39 VI, 5–33 Troubleshooting, 5–15
ThinLAN. See Thin net	Probe connections, C–1
Third party, routers  See also name of router manufacturer entry on Switcher Description table, 5–33, 5–38	program restart, B-1 zipping a configuration set, 5-15 TSL, V-1
Thomson Automation	TVS/TAS-1000, 1-12, 2-3
CP Input set entry, 5–70 CP Output set entry, 5–91	TVS/TAS-2000/3000, connecting to VM-3000, 2-3
hardware connections, 2–77	TVS/TAS-2001, 1-12, 2-3
MPK Devices table entry, 5–130 MSL 4000, 2–77	Twisted pair, 2–10, 2–102
Protocol Dependent Devices table entry, 5–145 Serial Protocol table entry, 5–28	Type 43 material, 2–11, 2–103
special compile/download procedures, R-1 Switcher Initialization menu, 5-70, 5-91	U
Three-stage switching defined, Glossary-10	U12, 5–28
Installation, H–1	U96, 5–28
Ticks, 8–1	UDI–1B, 2–25 serial protocol table entry, 5–27
Tie line, 5–196	UL, xxvi
defined, Glossary–11 status on CP–3800, 6–63	UMD-3A. See RP 1/2/3 UMD
VGA display, A–10	Under Monitor Displays, 2–121
Time, Internet, 9–5	See also SD–3x, RP 1/2/3, or TSL hardware installation, 2–121
Time code, 2–103, 9–5	software configuration, 2–125
Time Standard table, 5–212	Underscore, in set, table, & device names, 5-7
Time sync, 9–5	Universal Data Interface, 2–25

Unlink, 6–138	V
Unlock	
CP-3000, 6-11	V board. See VG–3000
CP-3808, 6-69	Vacuum fluorescent, 6–20
CP-3824, 6-79	Downloading, configuration set, 5–13
CP-3830, 6-92	
CP-3832/3864, 6-104	Validating configuration set, 5–13
force, 6–12	Variable play key, MC–3000, 6–132
all outputs (JNS), 11–1	VC-3020
CP-3808, 6-70, 6-71	bus loading, 1–19
CP-3824, 6-79, 6-80	Button labels, 2–72
CP-3830, 6-92, 6-93	Front panel, A-1
CP-3832/3864, 6-104, 6-105	Installation, A–1
CP-3864L, 6-119	Rear panel connectors, 1–13
VGA, 6–143 Machine control, 6–138	VCP-3000, A-2
	VDE
Unprotect	
CP-3000, 6-10	Cable modifications, 2–11, 2–103
CP-3808, 6-70	Defined, Glossary–11
CP-3824, 6-79	Ventilation space, 2–2
CP–3830, 6–92 CP–3832/3864, 6–103	Venus
CP-3864L, 6-119	2x1 Matrix Combiner. <i>See</i> 2x1 Matrix Combiner
force, 6–12	connecting to VM-3000, 2-3
all outputs (JNS), 11–1	output monitoring, O–1
CP–3808, 6–70 , 6–71	stereo
CP-3824, 6-79, 6-80	CP-3000 switching, 6-18
CP-3830, 6-92, 6-93	CP–3800 switching, 6–43
CP-3832/3864, 6-104, 6-105	CP–3808 switching, 6–74
CP–3864L, 6–119	CP–3830 switching, 6–98
VGA, 6–143	CP–3864 switching, 6–115, 7–14
	Level jumper, 5–35
Unqualified output (tally), 5–184, 5–190	Switcher Description table entry, 5–32, 5–34, 5–35,
Update Board Info, Board Info/Control menu, 9-4	5–39, 5–40
Upgrade, 3–1	Version information, VM/SI/Saturn software, 8–2
Opgrade, 5–1	VG-3000, P-1
Utah Scientific	Software configuration, Status Display Headers table
AVS–1B, connecting to, 2–27	5–172
AVS-1B (PL-320)	VGA Status Display
serial protocol table entry, 5–27	cable length, A–1
switcher protocol, 5–39	General description, 1–3
Party Line (UDI–1B)	Generate Files command, A-2
serial protocol table entry, 5–27	hardware installation, A-1
switcher protocol, 5–39	operation, 6–141
physical level no., 5–38	force unprotect/unlock, 6–143
PL–320 Control/Memory Card, connecting to, 2–27	redundant VM-3000s, 2-4, K-1
UDI-1B Universal Data Interface, connecting to, 2–25	Software configuration, A–2
Utah_12/96, Routing switcher dialect, Matrix-physical	Force unprotect/unlock, 5–115
level no., 5–38	Machine control table, 5–158
Utilities	MPK devices table, 5–115
Physical diagnostic, 15–1	Status Display Headers table, 5–172 VGA Status Display table, 5–173
Physical Remapping, 16–1	tie line (path finding), A–10
injoical remapping, 10 i	To fine (paul finding), 11–10

Video display/generator. <i>See</i> VG–3000 Mode (VGA), 5–173	VGA display controls, 6–141, A–1 VM–3000B, defined, Glossary–11
monitor combiner. See VM-400 or DC-400	VMC-3000, A-2
Video Reference table, 5–212	Voltage (AC line) selection, 2–1
Vistek, Array	VPR-2, 2-82
Connecting to, 2–28	VPR-3, 2-82
Physical level no., 5–38	
protocol entry, 5–39	VPR-300 series, 2-82
serial protocol table entry, 5–27	VPR-6, 2-82
VITC, defined, Glossary-11	VPR-80, 2-82
VM-400, O-1	VT_, serial protocol table entry, 5–29
VM-3000	VTK, 5–28
clearing battery–protected memory, B–1	VTRs
clearing flash memory, B–2	Connecting to, 2–83
clock, 2–103, 9–5	controlling with
connecting to	CP-3800, 6-45
multiple Crosspoint Bus routers, 2–33	non–Jupiter panels or computer, 2–97
PC, 2–38	ESbus. See ESbus VTRs
remote (third party) switcher, 2–12 connecting to router, 2–3	Linking to control panels, 5–151 Max per bus, 1–19
Controls, indicators, connectors, 1–9	Names, entering, 5–141
devices per bus, max, 1–18	Parallel, 2–89
DIP switches, 2–2	,
force download, B-2	
front panel (drawing), 1-10, C-1, S-1	W
LED error codes, S–1	
levels, max. no. of, 1–16	Warranty, xxviii
Multiple	White paper, 2–107
Switchers, 2–33 Units/levels, 5–33	Windows, cut and paste to Jupiter, 5–6
network address switches, 2–39	•
Next key, 6–141, A–1	Word, 5–6
Odd/even ports, 2–89	Work sheet, CP-3000/3010 output set, M-1
party line configuration, 5–169	WPE, defined, Glossary-11
Pin outs, serial ports, 2–102	•
Protocol table, 5–25	
rear panel (drawing), 1–10	X
redundant installation	
cable, 2–8 hardware	X–Y panel (GUI), 7–29
party line, 2–4, K–1	X–Y selection, defined, Glossary–11
Crosspoint Bus router, 2–5	XPress, key features, 1–27, 1–28, 1–29, 1–30
VGA port, 2–4, K–1	·
kit, 2–7	XPT, defined, Glossary–11
manual changeover, K-1	
software configuration, 5–24	V
system preloading, K–2	•
Reset, B–1	Y line, L–8
software version, 8–2 status check, 8–1, 9–1	defined, Glossary–11
three-stage, H-2	Y line table, 5–211
- · · · · · · · · · · · · · · · · · · ·	<b>,</b> -

## Z

ZIF, defined, Glossary–11 Zion, Glossary–11 Zip/Unzip, 5–15