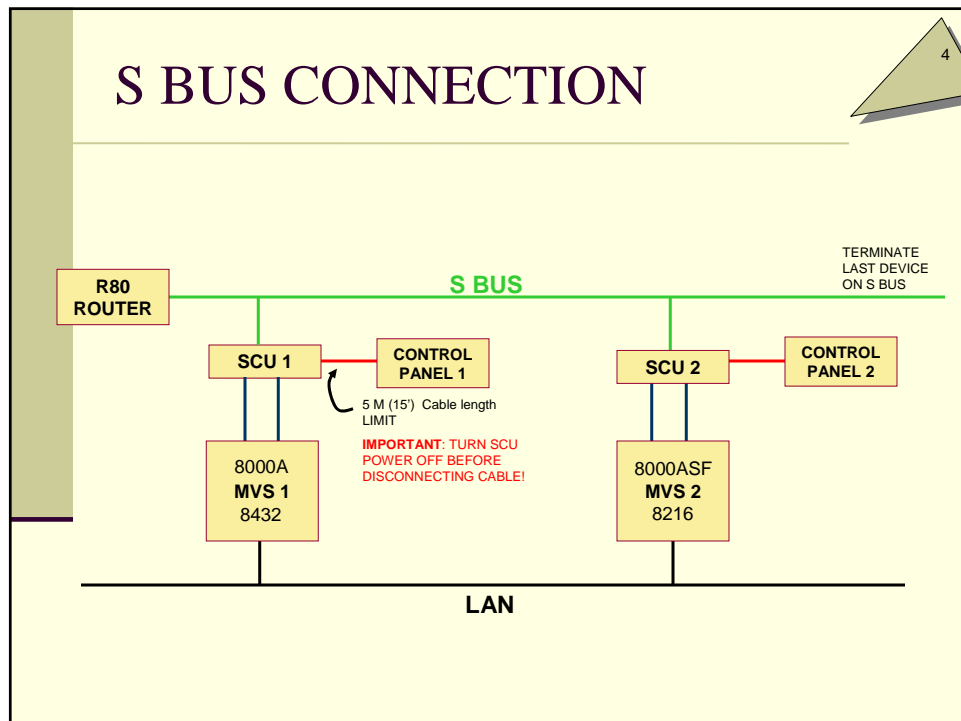
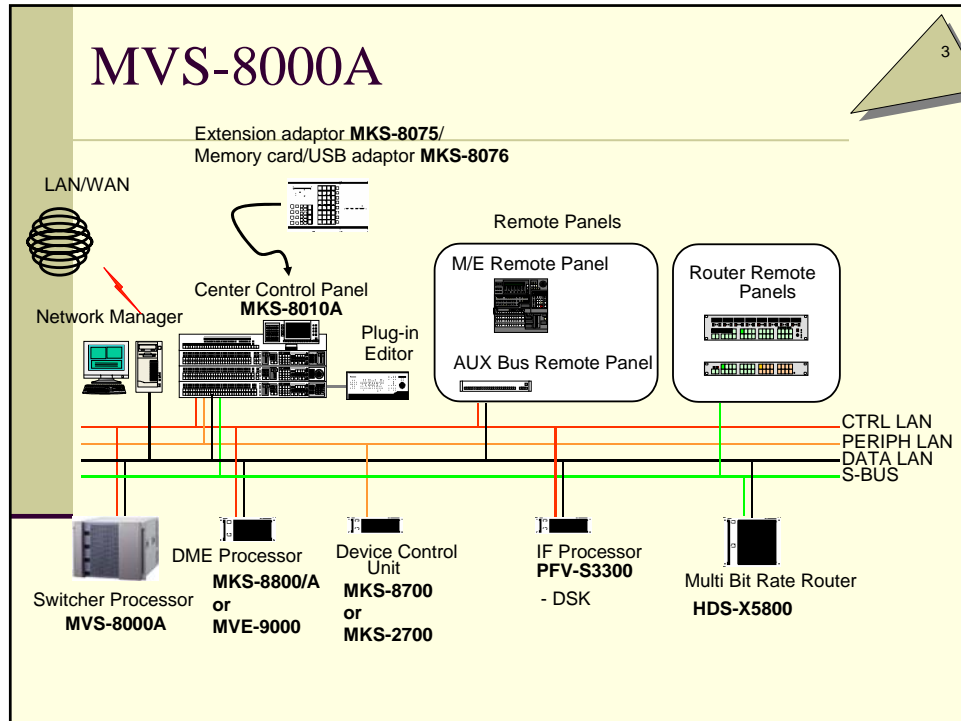


1

## MVS-8000A Maintenance Overview

### SWITCHER CURRENT REQUIREMENTS

■ MVS-8000A	120 A	15 A at 100 V
■ (full options)		
■ MVS-8000ASF	110 A	7.5 at 100 V
■ MVE-8000A	15 A	2.8 A at 100 V
■ (4 channels)		
■ MKS-8700	20 A	1.4 A at 100 V
■ (Each MKS-8702)		0.5 A
TOTAL 120A in rush max		
■ MVS-8000A w/MVE-8000A and MKS-8700	= 20.2 A at 100 V	
■ MVS-8000ASF w/MVE-8000A and MKS-8700	= 12.7 A at 100 V	
■ MKS-8010A	14 A	3.3 A at 100 V



## Video Signal Connection

- Refer to MVS-8000A O/M page 12 and 13 or  
**1a MVS8000 8000A System Wiring from Setup Manual.pdf**
- Connection between MVS-8000A and  
MVE-8000A
  - DME 1A/1B <-> SWITCHER A/B

## Connection of Panels

- Refer to CCP-8000A O/M page 16
  - Max. cable length between MVS-8010A and Main Panel is 5m.
  - Connection of MC/USB Module
    - Mounted in Main Panel : DEVICE(Main Panel) <-> HOST
    - Mounted in AUX Module: DEVICE(AUX Panel) <-> HOST
    - Mounted in EXT Adaptor: DEVICE(Extension Box) <-> HOST
  - Limitation of External modules
    - Max. 8 modules can be connected to one EXT PANEL port.
    - Max. length between modules is 10m.
    - Total cable length must be less than 30m.
- \* 4 of Key Control modules and a 10 key module can not be connected together.

## Modules connection

- Up to 8 modules can be connected to one EXT PANEL port.
- There are 3 EXT PANEL port on a MKS-8010A (SCU)

Module	Max. number	Module Description
MKS-8013/14	2	32/24 Aux panel
MKS-8026	1	10 Key Pad
MKS-8030	1	Key Frame
MKS-8031TB	1	Trackball Module
MKS-8035	4	Key Control Module
MKS-8032	4	DSK Fader

## Modules Connection List

• MKS-8013	32 AUX Bus Module	• MKS-8025MS	Memory Stick/USB Module <sup>*1</sup> (Refer to page 2-4.)
• MKS-8013B	32 AUX Bus Module	• MKS-8026	10 Key Pad Module
• MKS-8014	24 AUX Bus Module	• MKS-8027	Compact Transition Right Module
• MKS-8014B	24 AUX Bus Module	• MKS-8028	Compact Transition Left Module
• MKS-8015	16 AUX Bus Module	• MKS-8030	Key Frame Module
• MKS-8015B	16 AUX Bus Module	• MKS-8031JS	Joystick Module
• MKS-8017	32 XPT Module	• MKS-8031TB	Track Ball Module <sup>*2</sup> (Refer to page 2-4.)
• MKS-8017B	32 XPT Module	• MKS-8032	DSK Fader Module
• MKS-8018	24 XPT Module	• MKS-8033	Utility/Shotbox Module
• MKS-8018B	24 XPT Module	• MKS-8034DK	DSK/FTB Module
• MKS-8019	16 XPT Module	• MKS-8034FB	FTB Module
• MKS-8019B	16 XPT Module	• MKS-8035	Key Control Module
• MKS-8020	Standard Transition Module		
• MKS-8021	Simple Transition Right Module		
• MKS-8022	Simple Transition Left Module		
• MKS-8023	Compact Key Transition Module		
• MKS-8024	Flexipad Module		
• MKS-8025	Memory Card/USB Module <sup>*1</sup>		

## LAN CONNECTION

- Refer to MVS-8000A O/M page 12
- Each LAN communicates through Ethernet Switch
  - Control LAN and Data LAN should be separate.
  - Peripheral LAN can be connected with Ethernet crossover cable without switch.
    - If there are 2 DCU in a Peripheral LAN, Ethernet Switch is required.

## Ethernet Switch – Recommendation

- Netgear Ether Switch
  - FS516 or JFS516 recommended
- An Unmanaged 10/100 ethernet switch (do not use Gigabit switch)

## Ethernet Switch – Specification

11

- Must be Ethernet Switch (Layer 2 or 3)
    - Ether Hub can not be used.
  - Throughput: 120Kpps or more (per port) Packet size 64Byte
  - (Backbone: 1.5 Gbps or more)
  - Total Throughput: 3Mpps or more
  - Packet Delay: 50 usec or less
  - 100 Base TX
  - VLAN capable\*1
  - Dual on all ports
  - Switching: Store and Forward
  - SNMP, RMON Capable ... For Remote Maintenance
  - Port Mirroring
- \*1 VLAN is not necessary when each LAN, CTRL and DATA, has own Ethernet Switch.

## Maximum LAN connection

12

- Control LAN
  - MVS 1 or 2 units
  - MVE Up to 4 units
  - Panel Up to 4 units
- Peripheral LAN
  - Panel Up to 4 units
  - DCU 1 or 2 units

## Network Setup

13

- IP Addresses of each unit
  - Set by Dip-switch
    - Each unit must have unique Control, Peripheral, Data LAN, and Host Name.

Model	Board	Group ID	Unit ID
MVS-8000A	CA-54	S102	S103
MVE-8000A	CA-54CFC	S102	S103
CCP-8000	CA-45	S901	S902
DCU-8000	CA-47	S754	S755

## IP Address

14

- Local Address for MVS system
  - 10.AA.BB.CC
- Meaning of each byte

10	AA	BB	CC
Fixed	LAN Group Definition Group ID  Control: 0~63 Peripheral: 64~127 Data: 128~191	Model Code (Fixed by model) Panel: 1 MVS: 2 DME: 3 DCU: 5	Unit ID * In case 2 or more same model are connected to LAN, unit ID must be different.

15

# Default Setup (IP setup)

Model	IP	Host name	Dip-switch
MVS-8000A	10.1.2.1(C) 10.129.2.1(D)	SWR001C001 SWR001D001	<div>Group ID<div></div></div> <div>Unit ID<div></div></div>
MVE-8000A	10.1.3.1(C) 10.129.3.1(D)	DME001C001 DME001D001	
CCP-8000	10.1.1.1(C) 10.65.1.1(P) 10.129.1.1(D)	PNL001C001 PNL001P001 PNL001D001	
DCU-8000	10.65.5.1(P)	DCU001P001	

16

# Questions?

Back to Main Menu

MVS-8000A/ASF System  
ICO Course - Main Menu

Start

1. Introduction

2. MVS-8000A/ASF System

3. Troubleshooting

4. Setup & Initial

5. I/O Unit Maintenance

6. I/O Unit Replacement

7. I/O Unit Removal

8. I/O Unit Installation

9. I/O Unit Testing

10. I/O Unit Troubleshooting

11. I/O Unit Replacement

12. I/O Unit Removal

13. I/O Unit Installation

14. I/O Unit Testing

15. I/O Unit Troubleshooting

16. I/O Unit Replacement

17. I/O Unit Removal

18. I/O Unit Installation

19. I/O Unit Testing

20. I/O Unit Troubleshooting

21. I/O Unit Replacement

22. I/O Unit Removal

23. I/O Unit Installation

24. I/O Unit Testing

25. I/O Unit Troubleshooting

26. I/O Unit Replacement

27. I/O Unit Removal

28. I/O Unit Installation

29. I/O Unit Testing

30. I/O Unit Troubleshooting

31. I/O Unit Replacement

32. I/O Unit Removal

33. I/O Unit Installation

34. I/O Unit Testing

35. I/O Unit Troubleshooting

36. I/O Unit Replacement

37. I/O Unit Removal

38. I/O Unit Installation

39. I/O Unit Testing

40. I/O Unit Troubleshooting

41. I/O Unit Replacement

42. I/O Unit Removal

43. I/O Unit Installation

44. I/O Unit Testing

45. I/O Unit Troubleshooting

46. I/O Unit Replacement

47. I/O Unit Removal

48. I/O Unit Installation

49. I/O Unit Testing

50. I/O Unit Troubleshooting

51. I/O Unit Replacement

52. I/O Unit Removal

53. I/O Unit Installation

54. I/O Unit Testing

55. I/O Unit Troubleshooting

56. I/O Unit Replacement

57. I/O Unit Removal

58. I/O Unit Installation

59. I/O Unit Testing

60. I/O Unit Troubleshooting

61. I/O Unit Replacement

62. I/O Unit Removal

63. I/O Unit Installation

64. I/O Unit Testing

65. I/O Unit Troubleshooting

66. I/O Unit Replacement

67. I/O Unit Removal

68. I/O Unit Installation

69. I/O Unit Testing

70. I/O Unit Troubleshooting

71. I/O Unit Replacement

72. I/O Unit Removal

73. I/O Unit Installation

74. I/O Unit Testing

75. I/O Unit Troubleshooting

76. I/O Unit Replacement

77. I/O Unit Removal

78. I/O Unit Installation

79. I/O Unit Testing

80. I/O Unit Troubleshooting

81. I/O Unit Replacement

82. I/O Unit Removal

83. I/O Unit Installation

84. I/O Unit Testing

85. I/O Unit Troubleshooting

86. I/O Unit Replacement

87. I/O Unit Removal

88. I/O Unit Installation

89. I/O Unit Testing

90. I/O Unit Troubleshooting

91. I/O Unit Replacement

92. I/O Unit Removal

93. I/O Unit Installation

94. I/O Unit Testing

95. I/O Unit Troubleshooting

96. I/O Unit Replacement

97. I/O Unit Removal

98. I/O Unit Installation

99. I/O Unit Testing

100. I/O Unit Troubleshooting

Q & A

End

Sony Training Institute

8