

Page 1 - 8 Channel Matrix Switcher MSS-8



Page 4 - 16 Channel Matrix Switcher and Multi Viewer MVS-16



Initial Setup

Power Connections:

MSS-8 is supplied with two 12V wall power supplies. One is sufficient, however for redundancy we recommend both power supplies to be used.

LAN Connection:

By default MSS-8 uses your network's DHCP to assign IP addresses. For Static IP use the Software Control Utility.

RS232 Connection:

Port Settings: Bps 9600, Data bits 8, Parity None, Stop Bits 1, Flow Control None

Setup:

- Download and Install the Osprey control panel software
- Connect Unit to your PC using RS232 or to your network using LAN
- Connect your video sources and video sinks to the SDI Inputs/Outputs
- Connect Power and turn unit ON



Manual Keypad Controls

Using the Buttons on MSS-8 Front Panel

- IN/OUT:** Make individual Matrix Connections
Example Sequence: IN – 2 – OUT – 4 – 6 – 7 (Input 2 connected to Outputs 4, 6 and 7)
- ALL:** Connect one Input to all Outputs simultaneous
Example Sequence: IN – 4 – ALL (Input 4 connected to all 8 Outputs)
- LOCK:** Keypad Lockout



- Display:** The first line represents Outputs 1-4, the second line Outputs 5-8.
SIP: Static IP Address
DIP: Dynamic IP Address (DHCP)

Above display shows the following connections.

- Input 1 to Outputs 5, 6, 7, 8
- Input 2 to Outputs 1, 2, 3, 4

The display brightness can be adjusted using the PC based Osprey Control Software. There is also a “sleep” option.

Software Controls

Using Osprey Control Panel Software

SCANNING: Scans the Network for all connected Osprey MSS-8 and MVS-16

SETTING: Switch between LAN (Static or DHCP) or Serial Connection

LOCK: Lockout of the Unit Keypad to prevent unwanted I/O changes

INPUT: Selection of Input Channel

OUTPUT: Selection of Output Channel

APPLY: Applies the I/O Selections

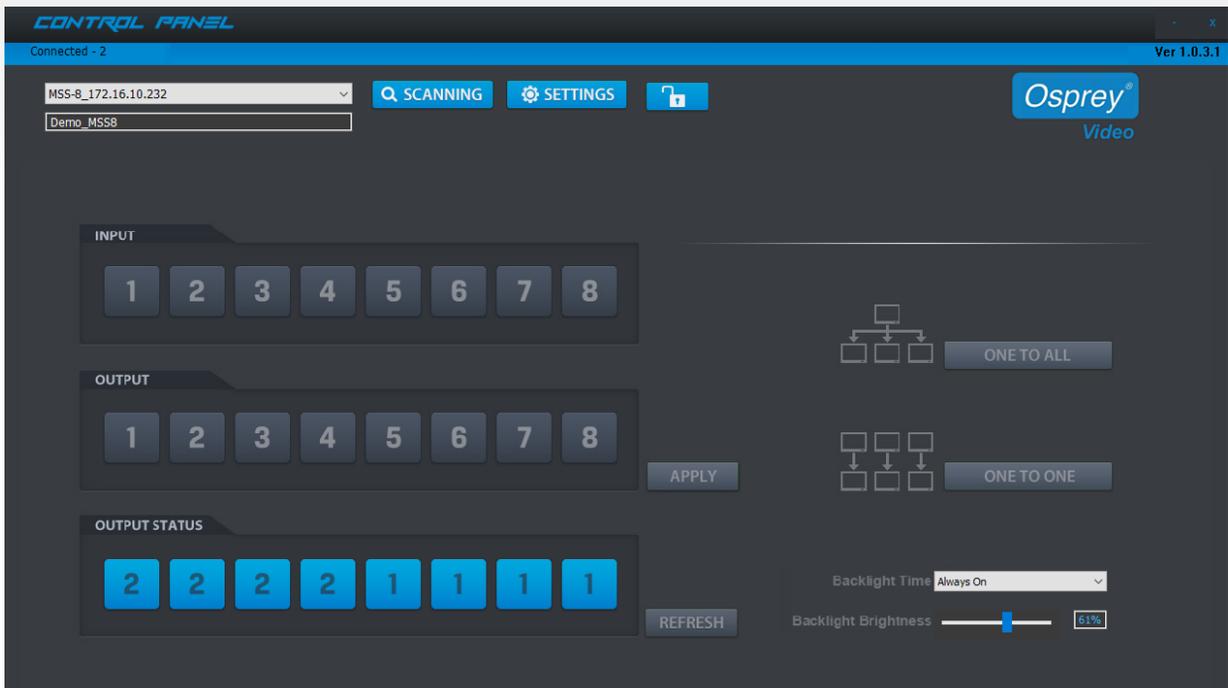
STATUS: I/O Connections. Left to right shows Outputs 1 through 8

REFRESH: Updates the I/O status in the Software Interface to capture Changes made on the keypad while the Software was running

ONE to ALL: Simultaneous connect one Input to all Outputs

ONE to ONE: Simultaneous connect Input 1 to Output 1, Input 2 to Output 2, etc

BACKLIGHT: Change brightness and behavior of the Units Display



Initial Setup

Power Connections:

MVS-16 is supplied with two 12V wall power supplies. One is sufficient, however for redundancy we recommend both power supplies to be used.

LAN Connection:

By default the MVS-16 uses your network's DHCP to assign IP addresses. For Static IP use the Software Control Utility.

Setup:

- Download and Install the Osprey control panel software
- Connect Unit to your network using LAN
- Connect your video sources and video sinks to the SDI Inputs/Outputs
- Connect Power and turn unit ON



Manual Keypad Controls

Using the Buttons on MVS-16 Front Panel



- 1:** Display to show Device Status and Menu
- 2:** **MultiViewer Mode**
Assigning an Input to a Window.
Example: IN – 1 – OUT – 1 – 2 assigns Input 1 to Windows 1 & 2
- 3:** **Switcher Mode**
Make individual Matrix Connections
Example Sequence: IN – 2 – OUT – 4 – 6 – 10+ – 2 connects Input 2 to Outputs 4, 6 and 12)
- 4:** Turns Time Code On/Off for all Channels
- 5:** Turns Audio Meters On/Off for all Channels
- 6:** Turns Channel ID On/Off for all Channels
- 7:** Toggle between 20 different MultiView Layouts
- 8:** Turn On Full Screen Mode. Then select channel for full screen view of selected channel
- 9:** Keypad Lockout
- 9:** Menu Controls - Push to Enter Menu

Note: Multiviewer Mode vs. Switcher Mode only affects the functionality of the buttons “2” as shown above. The Mode can only be changed in the menu settings using rotary button “9”.

Front Panel Menu Controls

Push Rotary Button on Front Panel to access the System Menu

Main Menu	Sub Menu	Options	Description
System Setting	Language	English/Chinese	Change the Language between Chinese and English
	LCD brightness	10-100	Set the backlight brightness between 10-100
	LCD ON/OFF	Always/ Off/ Dim	Set the state of backlight, there are three mode for option: Always/Off/ Dim
	LCD Sleep	5~60s	Set backlight time of "Off" and "Dim"
	Reset		Reset to default configuration
	Custom1		Load Custom1 configuration
	Custom2		Load Custom2 configuration
Network Setting	Return		Back to the main menu
	IP Acqui	Dynamic/Static	Two ways to acquire the IP: Static or Dynamic
	IP Addr		Set the IP address
	NetMask		Default setting is 255.255.255.0
	GateWay		Set Gateway according to current IP address
	Save		Save network setting
Overlay Setting	Return		Back to the main menu
	Item Select	UMD/Input Resolu/Audio Meter/Time Code/Border/Audio Alarm	Select a certain overlay
	Win/Source	1~16	Select a Window or signal source for each setting
	Enable	On/Off	On/Off the selected overlay
	Text Color	Yellow/White/Gray/Violet Red/Light Blue/Light Green/Light Cyan/Light Yellow/Transparent HalfTrans/Black/Blue/Red/Magenta/Green/Cyan	Text color setting
Audio Setting	Background	Yellow/White/Gray/Violet Red/Light Blue/Light Green/Light Cyan/Light Yellow/Transparent HalfTrans/Black/Blue/Red/Magenta/Green/Cyan	Background color setting
	Return		Back to the main menu
	Audio Source	WIN1~WIN16	Select the audio source of multiviewer output
Audio Setting	Audio Meter	1~16	Select a certain window for audio meter setting
	Channel	CH1&CH2 CH3&CH4 CH5&CH6 CH7&CH8 CH9&CH10 CH11&CH12 CH13&CH14 CH15&CH16	Set the audio channel of audio meter
	Return		Back to the main menu

Output Setting	Format	1080P60/1080P50/1080P30/1080P25/1080P24/1080I60 1080I50/720P60/720P50	Set the output formats
	Mode	Multiviewer/Switcher	Change the mode between Multiviewer and Switcher
	SDI Loop Out		Under "Matrix Switcher" mode, set all input and output channels correspond one by one
	Return		Back to the main menu
Device Info	Version		Current version information
	Return		Back to the main menu
Exit			Exit main menu

Osprey Control Panel Software

- SCANNING:** Scans the Network for all connected Osprey MSS-8 and MVS-16
- SETTING:** Switch between LAN (Static or DHCP) or Serial Connection
- LOCK:** Locks the Unit Keypad to prevent unwanted changes
- LAYOUT:** Select MultiView Output Layout
- SWITCHER:** Control of 16x16 Matrix Connections
- UMD:** Customize Channel Names
- AUDIO:** Audio Meter Enable/Disable, Audio Meter Channel Selection
Selection of Audio Source for MultiView Output Embedding
- COLORS:** Customize colors of Text and Video Information Overlay
- CONTROLS:** Enable/Disable Video Information Overlay
Enable/Disable Audio Alarm
Enable/Disable Timecodes
Save/Load Custom Profiles

