

MPA1 Audio Monitoring Range Installation and Operation Manual Version 1.3





Version History

Issue	Date	Change Details
1	01/02/18	Preliminary Guide
2	05/10/18	Version 1.0
3	25/1/19	Version 1.1 – Added MPA1 SOLO 8 and MPA1 MIX 8
4	1/10/19	Version 1.2 – Added Analogue, AES and GPIO Pinout Information
5	22/2/21	Version 1.3 – Added MPA1-SOLO-IP



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Introduction

The MPA1 Range of Audio Monitors provide high-quality confidence monitoring in a compact 1RU design. At just 100mm deep and less than 4kg, MPA1 Audio Monitors are ideally suited for environments where space and weight is a premium, such as OB Trucks and Flyaways.

Designed for ease of use, all MPA1 Audio Monitors can be controlled directly from the front panel, or remotely over an Ethernet network using a suitable Web-Browser or control system using SNMP.

This manual covers the following Audio Monitoring Products within the MPA1 Range:

MPA1-SOLO-IP	
MPA1-SOLO-SDI	MPA1-MIX-SDI
MPA1-SOLO-MADI	MPA1-MIX-MADI
MPA1-SOLO-DANTE	MPA1-MIX-DANTE
MPA1-SOLO-8	MPA1-MIX-8

The MPA1-SOLO variants provide instantaneous selection and monitoring of any incoming audio source, whilst the MPA1-MIX variants also allow for multiple monitor mixes, comprising up to 8 audio pairs, to be created, stored and recalled with ease.

Front Panel for MPA1-SOLO Variants



Front Panel Layout for MPA1-MIX-Variants







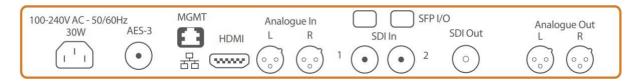
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MPA1-SOLO-IP Installation

The MPA1 Audio Monitoring Range has been designed to be quick and easy to install, requiring minimal installation effort. Input and output connectivity for each MPA1 Model can be seen below:

MPA1-SOLO-IP



Product	Inputs	Outputs	Other
MPA1-SOLO-IP	2 x SFP Ports	1 x 3G/HD/SD-SDI	1 x 1Gig/E Ethernet
	2 x 3G/HD/SD-SDI	(reclocked)	Port (Management and
	1 x AES3 (75 ohm)	2 x Analogue Outputs	Control)
	2 x Analogue Inputs	(Balanced)	1 x USB Port (Software
	(Balanced)	1 x Headphone Output	Updates and
		1 x HDMI Monitoring	Configuration)
		Output	1 x IEC Power Inlet

The MPA1 is equipped with 2 x SFP Ports which can be used as follows:

Function	Notes
Reception of 3G/HD/SD-SDI signals using Multi- Mode Optical Fiber	Requires optional multi-mode (850nm) 3G/HD/SD-SDI SFP receiver modules
Reception of 3G/HD/SD-SDI signals using Single- Mode Optical Fiber	Requires optional single-mode (1310nm) 3G/HD/SD-SDI SFP receiver modules
Subscription to SMPTE 2022-6 flows	Requires optional multi-mode (850nm) ST2022-6 IP SFP Modules*
Subscription to SMPTE 2110 flows	Requires optional multi-mode (850nm) ST2110 IP SFP Modules*

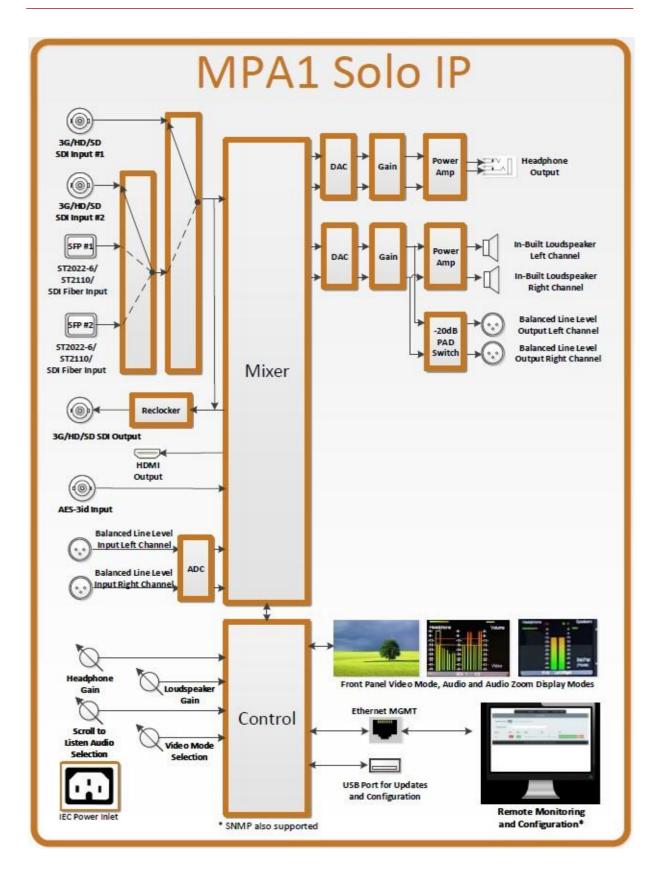
^{*} Please note that when using the MPA1-SOLO-IP to monitor ST2022-6 or ST2110 IP flows, optional SMPTE 2022-6 and SMPTE 2110 IP modules must be purchased from TSL.

To configure the optional ST2022-6 and ST2110 modules for use with your IP network, TSL recommends the use of Riedel MNSet.

https://www.riedel.net/



MPA1-SOLO-IP Functional Schematic

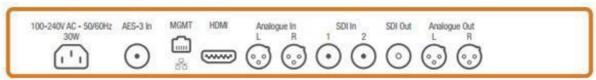




MPA1-SOLO-SDI Installation

The MPA1 Audio Monitoring Range has been designed to be quick and easy to install, requiring minimal installation effort. Input and output connectivity for each MPA1 Model can be seen below:

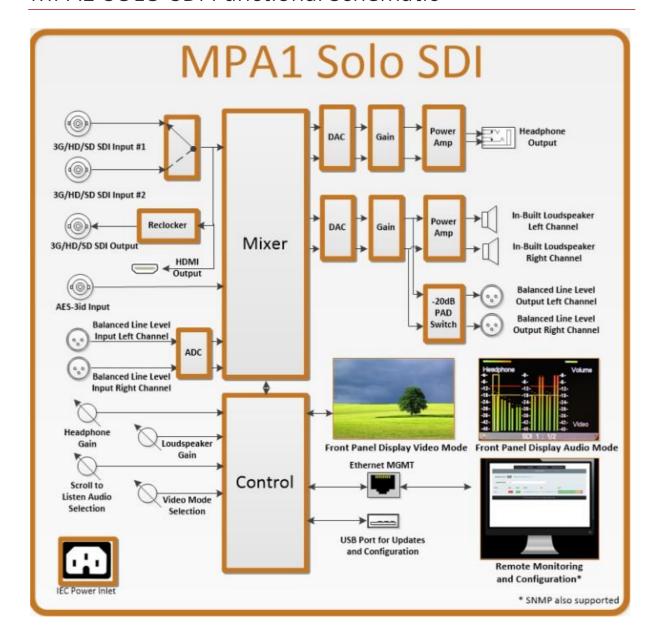
MPA1-SOLO-SDI



Product	Inputs	Outputs	Other
MPA1-SOLO-SDI	2 x 3G/HD/SD-SDI	1 x 3G/HD/SD-SDI	1 x 1Gig/E Ethernet
	1 x AES3 (75 ohm)	(reclocked)	Port (Management and
	2 x Analogue Inputs	2 x Analogue Outputs	Control)
	(Balanced)	(Balanced)	1 x USB Port (Software
		1 x Headphone Output	Updates and
		1 x HDMI Monitoring	Configuration)
		Output	1 x IEC Power Inlet



MPA1-SOLO-SDI Functional Schematic

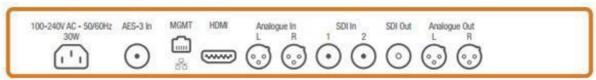




MPA1-MIX-SDI Installation

The MPA1 Audio Monitoring Range has been designed to be quick and easy to install, requiring minimal installation effort. Input and output connectivity for each MPA1 Model can be seen below:

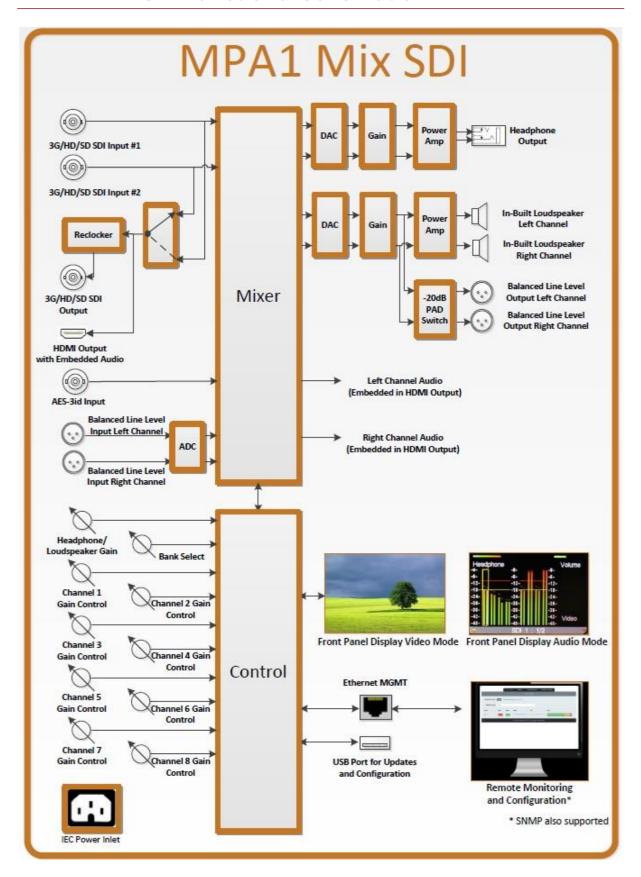
MPA1-MIX-SDI



Product	Inputs	Outputs	Other
MPA1-MIX-SDI	2 x 3G/HD/SD-SDI	1 x 3G/HD/SD-SDI	1 x 1Gig/E Ethernet
	1 x AES3 (75 ohm)	(reclocked)	Port (Management and
	2 x Analogue Inputs	2 x Analogue Outputs	Control)
	(Balanced)	(Balanced)	1 x USB Port (Software
		1 x Headphone Output	Updates and
		1 x HDMI Monitoring	Configuration)
		Output	1 x IEC Power Inlet



MPA1-MIX-SDI Functional Schematic





MPA1-SOLO-MADI Installation

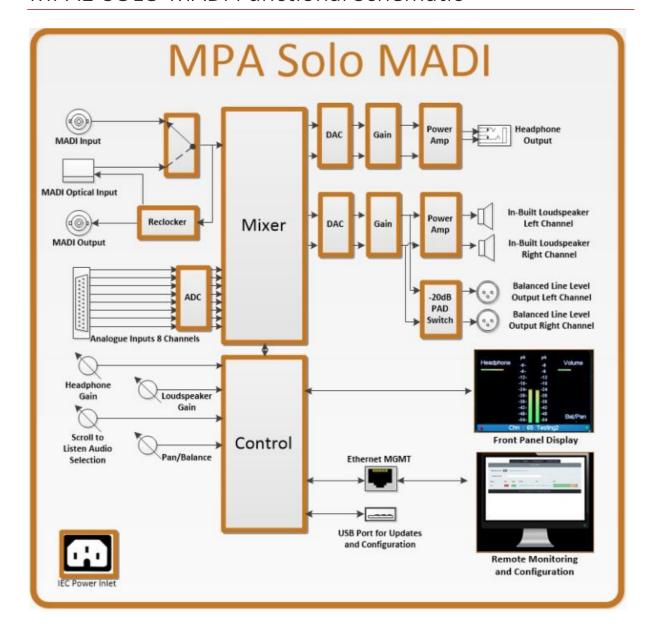
MPA1-SOLO-MADI



Product	Inputs	Outputs	Other
MPA1-SOLO-MADI	1 x MADI (75 ohm)	1 x MADI (75 ohm)	1 x 1Gig/E Ethernet
	1 x MADI (SFP cage for	reclocked	Port (Management and
	optional SFP module)	2 x Analogue Outputs	Control)
	8 x Analogue Inputs	(Balanced)	1 x USB Port (Software
	(Balanced)	1 x Headphone Output	Updates and
			Configuration)
			1 x IEC Power Inlet



MPA1-SOLO-MADI Functional Schematic





MPA1-MIX-MADI Installation

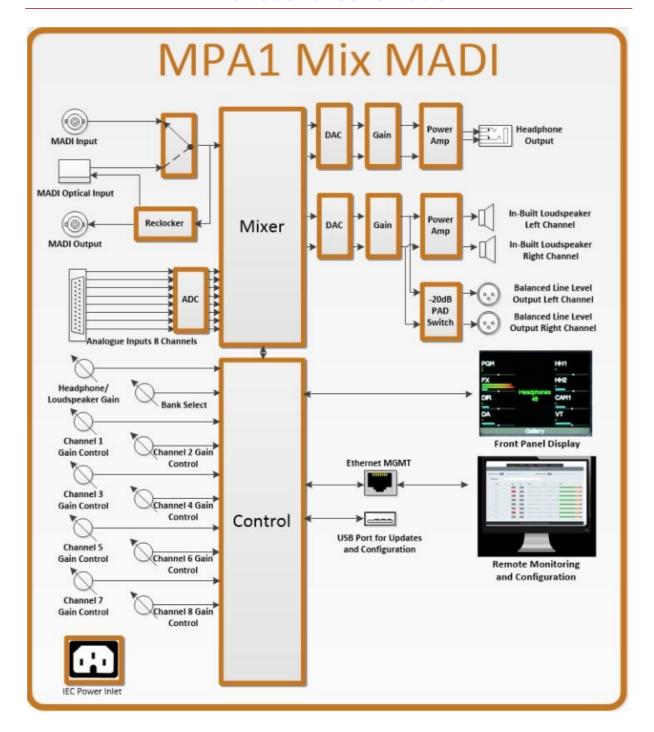
MPA1-MIX-MADI



Product	Inputs	Outputs	Other
MPA1-MIX-MADI	1 x MADI (75 ohm)	1 x MADI (75 ohm)	1 x 1Gig/E Ethernet
	1 x MADI (SFP cage for	reclocked	Port (Management and
	optional SFP module)	2 x Analogue Outputs	Control)
	8 x Analogue Inputs	(Balanced)	1 x USB Port (Software
	(Balanced)	1 x Headphone Output	Updates and
			Configuration)
			1 x IEC Power Inlet



MPA1-MIX-MADI Functional Schematic





MPA1-SOLO-DANTE Installation

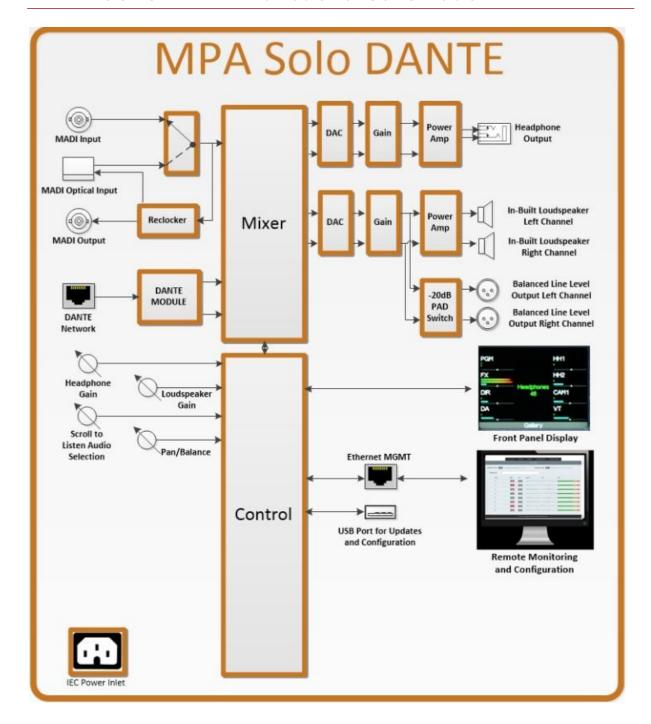
MPA1-SOLO-DANTE



Product	Inputs	Outputs	Other
MPA1-SOLO-DANTE	1 x 1Gig/E Ethernet	1 x MADI (75 ohm)	1 x 1Gig/E Ethernet
	Port (Dante/AES67)	reclocked	Port (Management and
	1 x MADI (75 ohm)	2 x Analogue Outputs	Control)
	1 x MADI (SFP cage for	(Balanced)	1 x USB Port (Software
	optional SFP module)	1 x Headphone Output	Updates and
	8 x Analogue Inputs		Configuration)
	(Balanced)		1 x IEC Power Inlet



MPA1-SOLO-DANTE Functional Schematic





MPA1-MIX-DANTE Installation

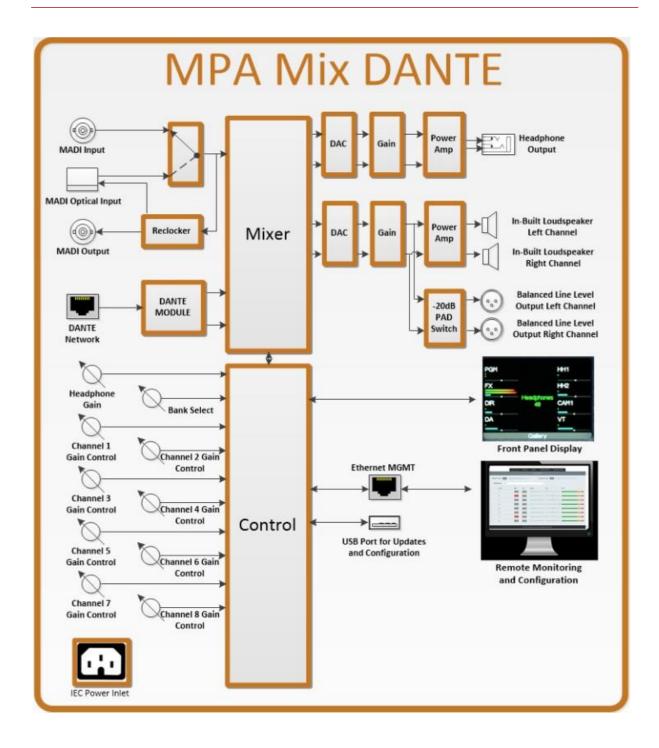
MPA1-MIX-DANTE



Product	Inputs	Outputs	Other
MPA1-MIX-DANTE	1 x 1Gig/E Ethernet	1 x MADI (75 ohm)	1 x 1Gig/E Ethernet
	Port (Dante/AES67)	reclocked	Port (Management and
	1 x MADI (75 ohm)	2 x Analogue Outputs	Control)
	1 x MADI (SFP cage for	(Balanced)	1 x USB Port (Software
	optional SFP module)	1 x Headphone Output	Updates and
	8 x Analogue Inputs	·	Configuration)
	(Balanced)		1 x IEC Power Inlet



MPA1-MIX-DANTE Functional Schematic





MPA1-SOLO-8 Installation

MPA1-SOLO-8









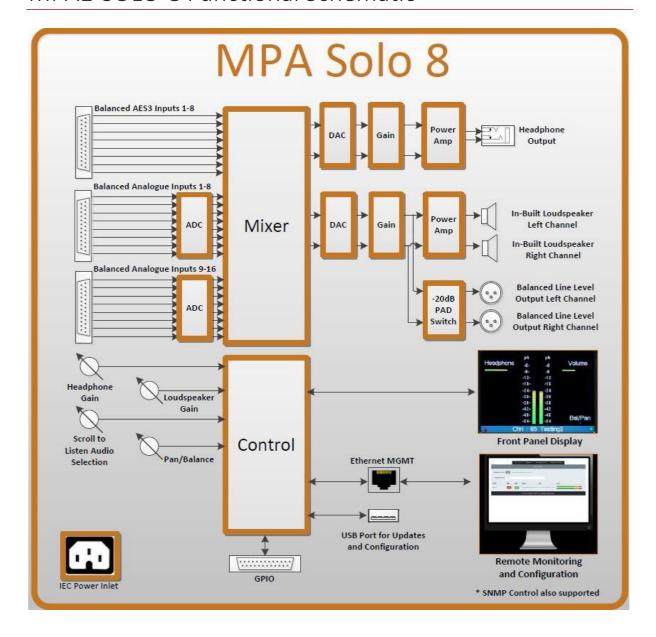


Product	Inputs	Outputs	Other
MPA1-SOLO-8	16 x Analogue Inputs (Balanced) 8 x AES-3 Inputs (Balanced 110 ohm) 4 x GPI	2 x Analogue Outputs (Balanced) 1 x Headphone Output 4 x GPO	1 x 1Gig/E Ethernet Port (Management and Control) 1 x USB Port (Software Updates and Configuration) 1 x IEC Power Inlet

Pin	Analogue Inputs 1-8	Analogue Inputs 9-	AES Inputs 1-8	GPIO
Number		16		
1	Channel 8 Positive	Channel 16 Positive	Channel 8 Positive	GPO1
2	Channel 8 Ground	Channel 16 Ground	Channel 8 Ground	Ground
3	Channel 7 Negative	Channel 15 Negative	Channel 7 Negative	GPO2
4	Channel 6 Positive	Channel 14 Positive	Channel 6 Positive	Ground
5	Channel 6 Ground	Channel 14 Ground	Channel 6 Ground	GPO3
6	Channel 5 Negative	Channel 13 Negative	Channel 5 Negative	Ground
7	Channel 4 Positive	Channel 12 Positive	Channel 4 Positive	GPO4
8	Channel 4 Ground	Channel 12 Ground	Channel 4 Ground	Ground
9	Channel 3 Negative	Channel 11 Negative	Channel 3 Negative	Ground
10	Channel 2 Positive	Channel 10 Positive	Channel 2 Positive	Ground
11	Channel 2 Ground	Channel 10 Ground	Channel 2 Ground	Ground
12	Channel 1 Negative	Channel 9 Negative	Channel 1 Negative	Ground
13	Empty	Empty	Empty	Ground
14	Channel 8 Negative	Channel 16 Negative	Channel 8 Negative	Ground
15	Channel 7 Positive	Channel 15 Positive	Channel 7 Positive	Ground
16	Channel 7 Ground	Channel 15 Ground	Channel 7 Ground	Ground
17	Channel 6 Negative	Channel 14 Negative	Channel 6 Negative	Ground
18	Channel 5 Positive	Channel 13 Positive	Channel 5 Positive	Ground
19	Channel 5 Ground	Channel 13 Ground	Channel 5 Ground	GPI1
20	Channel 4 Negative	Channel 12 Negative	Channel 4 Negative	Ground
21	Channel 3 Positive	Channel 11 Positive	Channel 3 Positive	GPI2
22	Channel 3 Ground	Channel 11 Ground	Channel 3 Ground	Ground
23	Channel 2 Negative	Channel 10 Negative	Channel 2 Negative	GPI3
24	Channel 1 Positive	Channel 9 Positive	Channel 1 Positive	Ground
25	Channel 1 Ground	Channel 9 Ground	Channel 1 Ground	GPI4



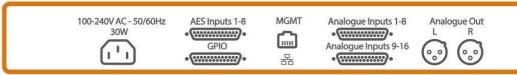
MPA1-SOLO-8 Functional Schematic





MPA1-MIX-8 Installation

MPA1-MIX-8



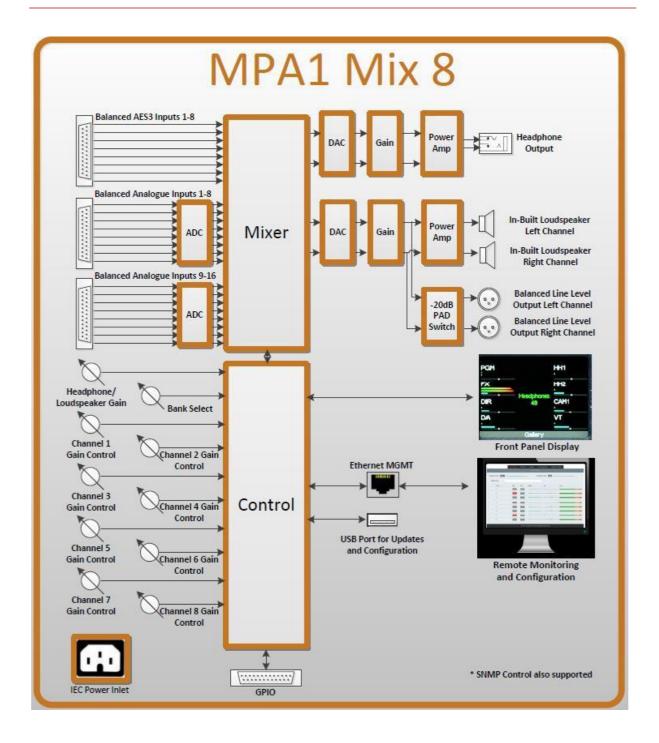
Product	Inputs	Outputs	Other
MPA1-MIX-8	16 x Analogue Inputs	2 x Analogue Outputs	1 x 1Gig/E Ethernet
	(Balanced)	(Balanced)	Port (Management and
	8 x AES-3 Inputs	1 x Headphone Output	Control)
	(Balanced 110 ohm)	4 x GPO	1 x USB Port (Software
	4 x GPI		Updates and
			Configuration)
			1 x IEC Power Inlet

Pin	Analogue Inputs 1-8	Analogue Inputs 9-	AES Inputs 1-8	GPIO
Number		16		
1	Channel 8 Positive	Channel 16 Positive	Channel 8 Positive	GPO1
2	Channel 8 Ground	Channel 16 Ground	Channel 8 Ground	Ground
3	Channel 7 Negative	Channel 15 Negative	Channel 7 Negative	GPO2
4	Channel 6 Positive	Channel 14 Positive	Channel 6 Positive	Ground
5	Channel 6 Ground	Channel 14 Ground	Channel 6 Ground	GPO3
6	Channel 5 Negative	Channel 13 Negative	Channel 5 Negative	Ground
7	Channel 4 Positive	Channel 12 Positive	Channel 4 Positive	GPO4
8	Channel 4 Ground	Channel 12 Ground	Channel 4 Ground	Ground
9	Channel 3 Negative	Channel 11 Negative	Channel 3 Negative	Ground
10	Channel 2 Positive	Channel 10 Positive	Channel 2 Positive	Ground
11	Channel 2 Ground	Channel 10 Ground	Channel 2 Ground	Ground
12	Channel 1 Negative	Channel 9 Negative	Channel 1 Negative	Ground
13	Empty	Empty	Empty	Ground
14	Channel 8 Negative	Channel 16 Negative	Channel 8 Negative	Ground
15	Channel 7 Positive	Channel 15 Positive	Channel 7 Positive	Ground
16	Channel 7 Ground	Channel 15 Ground	Channel 7 Ground	Ground
17	Channel 6 Negative	Channel 14 Negative	Channel 6 Negative	Ground
18	Channel 5 Positive	Channel 13 Positive	Channel 5 Positive	Ground
19	Channel 5 Ground	Channel 13 Ground	Channel 5 Ground	GPI1
20	Channel 4 Negative	Channel 12 Negative	Channel 4 Negative	Ground
21	Channel 3 Positive	Channel 11 Positive	Channel 3 Positive	GPI2
22	Channel 3 Ground	Channel 11 Ground	Channel 3 Ground	Ground
23	Channel 2 Negative	Channel 10 Negative	Channel 2 Negative	GPI3
24	Channel 1 Positive	Channel 9 Positive	Channel 1 Positive	Ground
25	Channel 1 Ground	Channel 9 Ground	Channel 1 Ground	GPI4





MPA1-MIX-8 Functional Schematic





Initial Setup

To realise the full benefits of your MPA1 Audio Monitor, TSL Products recommends connecting your MPA1 Audio Monitor to an Ethernet network during initial set-up and configuration.

Full configuration of your MPA1 Audio Monitor can be achieved by way of a suitable Client PC and Webbrowser.

Setting the Control IP Address of your MPA1 Audio Monitor

All MPA1 Audio Monitors are shipped with a DHCP setting default to 'DHCP 'On'.

To determine the current IP address of your MPA1, push and hold the SELECT/MENU encoder for 3 seconds to access the **Settings** Menu.



The **Settings** Menu will now appear on the front panel display of your MPA1, with the current IP Address shown.

Using the SELECT/MENU encoder, you can scroll through the Settings Menu to highlight a Settings Sub-Menu of your choice.

The availability of Sub-Menus is depicted by the presence of the following symbol: >>

IP Address >> : 192.168.204.3
USB Load/Save >>
Source : Coax

With the IP Address Sub-Menu highlighted as shown, briefly push the SELECT/MENU encoder to access the **Network Settings** Menu (see below).

The SELECT/MENU encoder will now allow you to scroll through, select and modify the Network Settings of your MPA1 in accordance with the guidelines set by your Network Administrator.

Once complete, select BACK to return to the **Settings** Menu. You can exit the **Settings** Menu by pushing and holding the SELECT/MENU encoder for 3 seconds once more.

MAC: D8-80-39-74-DA-78
IP: 192.168.204.3
Mask: 255.3255.255
Gw: 192.168.204.254
DHCP: Off
Back



Accessing the Webpage of your MPA1

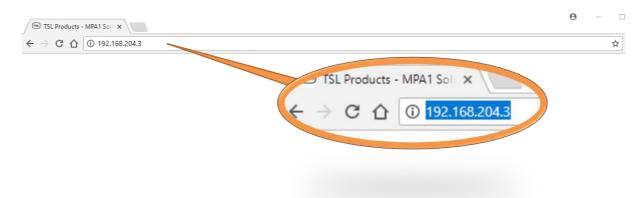
Configuring your MPA1 Audio Monitor using a Client PC and Web-Browser

With your MPA1 connected to an Ethernet network, you can remotely control and configure your MPA1 using a Client PC and Web-Browser.

The MPA1 Webpage allows you to optimise your MPA1 for your environment and the workflow you need to support.

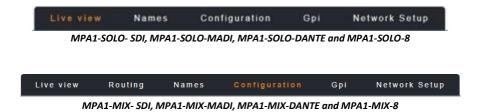
Settings such as the brightness of the front panel display, which sources may be selected from the front panel of the unit and the behaviour of the MPA1 when used with Headphones can all be set using the MPA1 Webpage.

Enter the IP Address of your MPA1 into a Web-Browser



The MPA1 Webpage comprises multiple Tabs, providing quick navigation to specific sections of the MPA1 configuration, providing quick and easy setup.

Separate Tabs for LIVE VIEW, NAMES, CONFIGURATION and NETWORK SETUP are present on the Webpage belonging to all MPA1-SOLO variants, whilst an extra ROUTING Tab can be found on all MPA1-MIX variants.

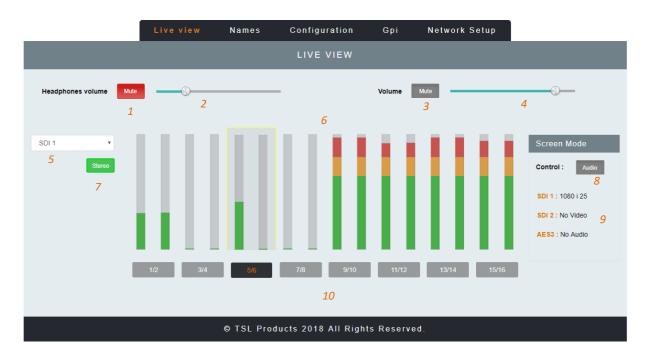


The following pages detail the contents and settings available for all MPA1 Audio Monitors



MPA1-SOLO-IP Webpage

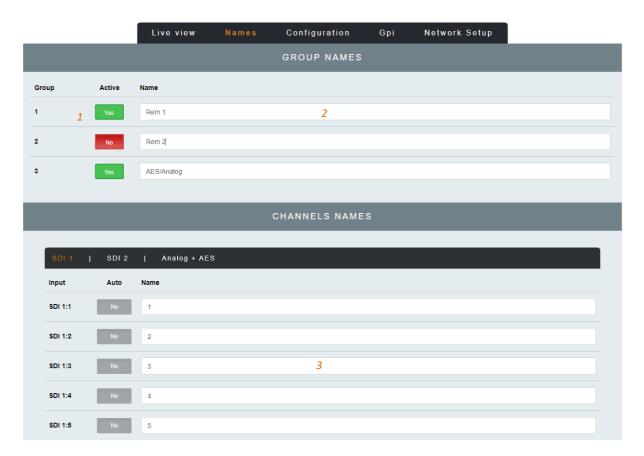
Clicking on the LIVE VIEW Tab of the MPA1-SOLO-IP Webpage displays the following:



Element	Function	Notes
1	Switch to Mute Headphone Output	Red when Muted, Grey when Active
2	Headphone Output Level adjustment	Adjust as required
3	Switch to Mute the Loudspeaker Output	Red when Muted, Grey when Active
4	Loudspeaker Output Level adjustment	Adjust as required
5	Input Selection	Switches between SDI 1, SDI 2, SFP1, SFP2 and
		AES + Analogue Input Monitoring
6	Audio Level Meter Display	Displays Audio Levels in accordance with Input
		Selection
7	Stereo/Mono Switch	Switches Audio Monitoring Selectors between
		Single Audio Channel and Audio Pair mode.
8	Screen Mode Switch	Switches front panel display between Audio
		Metering and SDI Video Source.
9	Signal Format Display	Format display of SDI 1, SDI 2 and AES3 Inputs
10	Audio Monitor Selectors	Selects the Single Audio Channel or Audio Pair
		routed to the Headphone and Loudspeaker
		Outputs.



Clicking on the NAMES Tab of the MPA1-SOLO-IP Webpage displays the following:



Element	Function	Notes
1	Input Active Buttons	Allows unused inputs to be hidden from the
		Operator
2	Input Names	Allows friendly names to be applied to SDI 1, SDI 2, SFP1, SFP2 and AES/Analog Input Groups
3	Channel Names	Allows friendly names to be applied to all 16 Embedded Audio Channels belonging to SDI 1, SDI 2, SFP1 and SFP2 Inputs and AES and Analogue Channels.



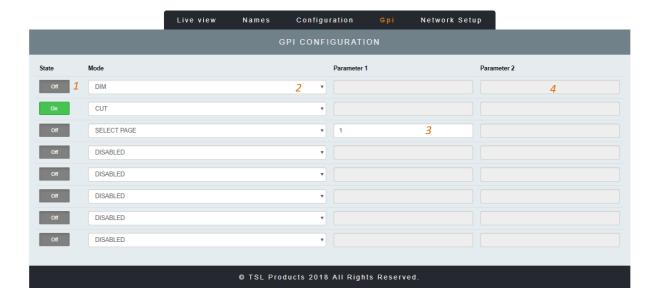
Clicking on the CONFIGURATION Tab of the MPA1-SOLO-IP Webpage displays the following:

	Live view	Names Co	onfiguration	Gpi	Network Setup	
	LINE OUTPL				OTHER CO	ONTROLS
					1	
2 Level	Reference	Attenuated	L	ocal config	Disabled	Enabled
4 Mode	On Mute	Mute on HP insert	Screen	brightness _		<u> </u>
5 Gain	Fixed	Variable			3	
	LOUDSPEAKER	MODE				
Speakers	On Mute	Mute on HP insert	6			
	METER THRESI	HOLD				
Alarm (Red)	- 10	*	DB 7			
Warning (Yellow)	-18	•	DB 8			
		© TSL Products	2018 All Righ	ts Reserved	1.	

Element	Function	Notes
1	Local Config	Enables/Disables configuration from the front
		panel of the MPA1-SOLO-IP
2	Line Output Level	Sets the Output Level of the Balanced Line
		Level Outputs on the MPA1-SOLO-IP
3	Screen Brightness	Sets the Brightness Level of the front panel
		display
4	Line Output Mode	Determines behaviour of Balanced Line Level
		Outputs upon insertion of Headphones.
5	Fixed or Variable Line Output	Determines if Balanced Line Level Outputs
		provide a Fixed or Variable Output
6	Loudspeaker Mode	Determines behaviour of Internal
		Loudspeakers upon insertion of Headphones.
7	Meter Threshold RED	Sets audio threshold at which audio level
		meters begin to display RED
8	Meter Threshold YELLOW	Sets audio threshold at which audio level
		meters begin to display YELLOW



Clicking on the GPI Tab of the MPA1-SOLO-IP Webpage displays the following:



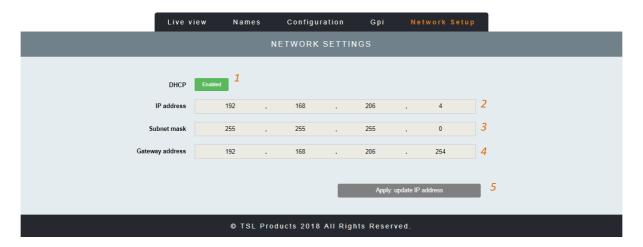
Element	Function	Notes
1	Virtual GPI State button	Displays current Virtual GPI status. Also allows manual activation of Virtual GPI.
2	Virtual GPI Mode Selector	Allows GPI 'Action' to be assigned to Virtual GPI Input
3	Virtual GPI Parameter 1	Defines first Parameter associated with selected GPI 'Action'
4	Virtual GPI Parameter 2	Defines second Parameter associated with selected GPI 'Action'

Please note that Virtual GPI Actions such as DIM and CUT require no further Parameters to be defined, whilst Virtual GPI Actions such as SELECT PAGE or SELECT PAGE and RETURN require entry of the desired audio channel.

All MPA1 Virtual GPI Parameters are zero based, with audio channels 1-16 represented as Parameters 0-15.



Clicking on the NETWORK SETTINGS Tab of the MPA1-SOLO-IP Webpage displays the following:

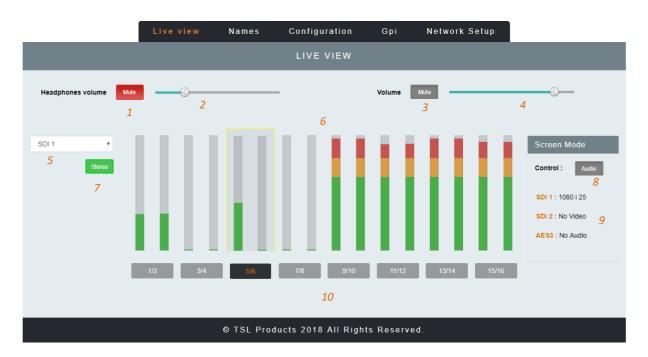


Element	Function	Notes
1	DHCP	Enables/Disables DHCP Mode
2	IP Address	Displays current IP Address and allows new IP
		Address to be entered.
3	Subnet Mask	Displays current Subnet Mask and allows new
		Subnet Mask to be entered.
4	Gateway Address	Displays current Gateway Address and allows
		new Gateway Address to be entered.
5	Apply IP Address	Button to apply IP, Subnet and Gateway
		addresses to the MPA1-SOLO-IP



MPA1-SOLO-SDI Webpage

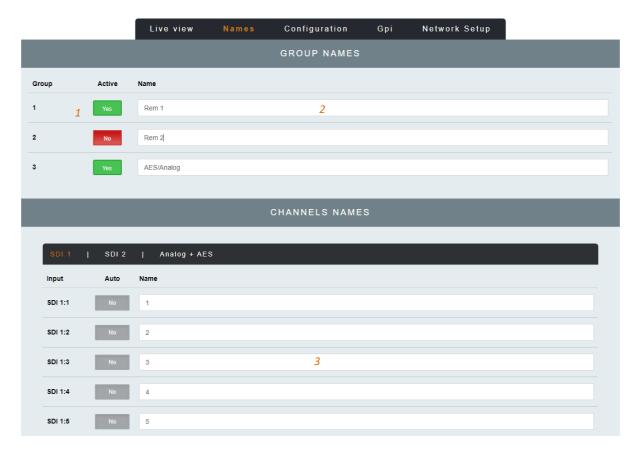
Clicking on the LIVE VIEW Tab of the MPA1-SOLO-SDI Webpage displays the following:



Element	Function	Notes
1	Switch to Mute Headphone Output	Red when Muted, Grey when Active
2	Headphone Output Level adjustment	Adjust as required
3	Switch to Mute the Loudspeaker Output	Red when Muted, Grey when Active
4	Loudspeaker Output Level adjustment	Adjust as required
5	Input Selection	Switches between SDI 1, SDI 2 and AES +
		Analogue Input Monitoring
6	Audio Level Meter Display	Displays Audio Levels in accordance with Input
		Selection
7	Stereo/Mono Switch	Switches Audio Monitoring Selectors between
		Single Audio Channel and Audio Pair mode.
8	Screen Mode Switch	Switches front panel display between Audio
		Metering and SDI Video Source.
9	Signal Format Display	Format display of SDI 1, SDI 2 and AES3 Inputs
10	Audio Monitor Selectors	Selects the Single Audio Channel or Audio Pair
		routed to the Headphone and Loudspeaker
		Outputs.



Clicking on the NAMES Tab of the MPA1-SOLO-SDI Webpage displays the following:



Element	Function	Notes
1	Input Active Buttons	Allows unused inputs to be hidden from the
		Operator
2	Input Names	Allows friendly names to be applied to SDI 1, SDI 2 and AES/Analog Input Groups
3	Channel Names	Allows friendly names to be applied to all 16 Embedded Audio Channels belonging to SDI 1 and SDI 2 Inputs and AES and Analogue Channels.



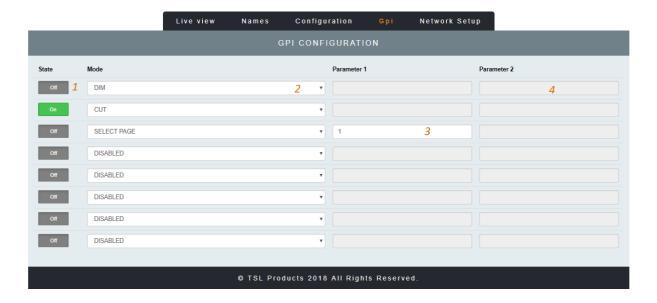
Clicking on the CONFIGURATION Tab of the MPA1-SOLO-SDI Webpage displays the following:

	Live view Names	Configuration	Gpi	Network Setup	
	LINE OUTPUT			OTHER CO	ONTROLS
				1	
2 Level	Reference Attenua	ited	Local config	Disabled	Enabled
4 Mode	On Mute Mute on H	P insert Screen	en brightness		
5 Gain	Fixed Variab	le		3	
	LOUDSPEAKER MODE				
Speakers	On Mute Mute on H	4P insert 6			
	METER THRESHOLD				
Alarm (Red)	-10	▼ DB 7			
Warning (Yellow)	-18	▼ DB 8			
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Element	Function	Notes
1	Local Config	Enables/Disables configuration from the front
		panel of the MPA1-SOLO-SDI
2	Line Output Level	Sets the Output Level of the Balanced Line
		Level Outputs on the MPA1-SOLO-SDI
3	Screen Brightness	Sets the Brightness Level of the front panel
		display
4	Line Output Mode	Determines behaviour of Balanced Line Level
		Outputs upon insertion of Headphones.
5	Fixed or Variable Line Output	Determines if Balanced Line Level Outputs
		provide a Fixed or Variable Output
6	Loudspeaker Mode	Determines behaviour of Internal
		Loudspeakers upon insertion of Headphones.
7	Meter Threshold RED	Sets audio threshold at which audio level
		meters begin to display RED
8	Meter Threshold YELLOW	Sets audio threshold at which audio level
		meters begin to display YELLOW



Clicking on the GPI Tab of the MPA1-SOLO-SDI Webpage displays the following:



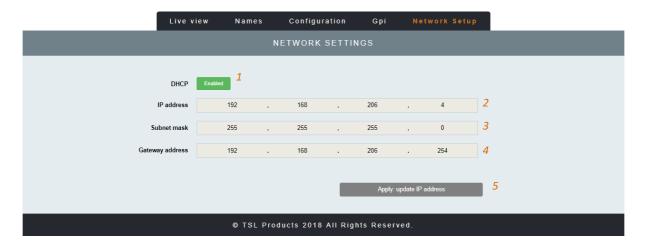
Element	Function	Notes
1	Virtual GPI State button	Displays current Virtual GPI status. Also allows manual activation of Virtual GPI.
2	Virtual GPI Mode Selector	Allows GPI 'Action' to be assigned to Virtual GPI Input
3	Virtual GPI Parameter 1	Defines first Parameter associated with selected GPI 'Action'
4	Virtual GPI Parameter 2	Defines second Parameter associated with selected GPI 'Action'

Please note that Virtual GPI Actions such as DIM and CUT require no further Parameters to be defined, whilst Virtual GPI Actions such as SELECT PAGE or SELECT PAGE and RETURN require entry of the desired audio channel.

All MPA1 Virtual GPI Parameters are zero based, with audio channels 1-16 represented as Parameters 0-15.



Clicking on the NETWORK SETTINGS Tab of the MPA1-SOLO-SDI Webpage displays the following:

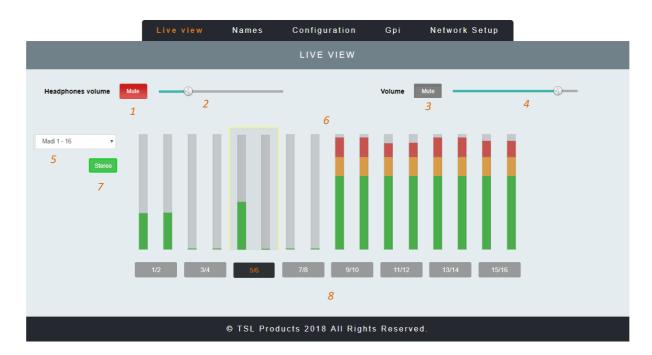


Element	Function	Notes
1	DHCP	Enables/Disables DHCP Mode
2	IP Address	Displays current IP Address and allows new IP
		Address to be entered.
3	Subnet Mask	Displays current Subnet Mask and allows new
		Subnet Mask to be entered.
4	Gateway Address	Displays current Gateway Address and allows
		new Gateway Address to be entered.
5	Apply IP Address	Button to apply IP, Subnet and Gateway
		addresses to the MPA1-SOLO-SDI



MPA1-SOLO-MADI Web Page

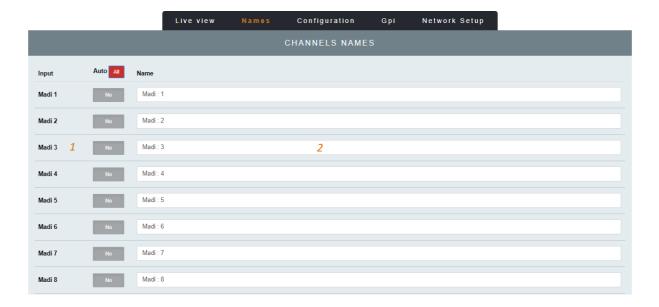
Clicking on the LIVE VIEW Tab of the MPA1-SOLO-MADI Webpage displays the following:



Element	Function	Notes
1	Switch to Mute Headphone Output	Red when Muted, Grey when Active
2	Headphone Output Level adjustment	Adjust as required
3	Switch to MUTE the Loudspeaker Output	Red when Muted, Grey when Active
4	Loudspeaker Output Level Adjustment	Adjust as required
5	Source Selection	Drop down list allowing Input selection of
		MADI Sources 1-64 and Analog Sources 1-8.
6	Audio Level Meter Display	Displays Audio Levels in accordance with Input
		Selection
7	Stereo/Mono Switch	Switches between Mono and Stereo
		monitoring modes.
8	Audio Monitor Selectors	Selects the Single Audio Channel or Audio Pair
		routed to the headphone and Loudspeaker
		Outputs.



Clicking on the NAMES Tab of the MPA1-SOLO-MADI Webpage displays the following:



Analog 5	No	Analog: 69
Analog 6	No	Analog: 70
Analog 7	No	Analog: 71
Analog 8	No	Analog: 72
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Element	Function	Notes
1	MADI/Analogue Channel Number	
2	Source Channel Names	Allows friendly names to be applied to MADI Channels 1-64 and Analogue Channels 1-8*

^{*} Please note that the Auto Naming function is fixed to NO on the MP1-SOLO-MADI



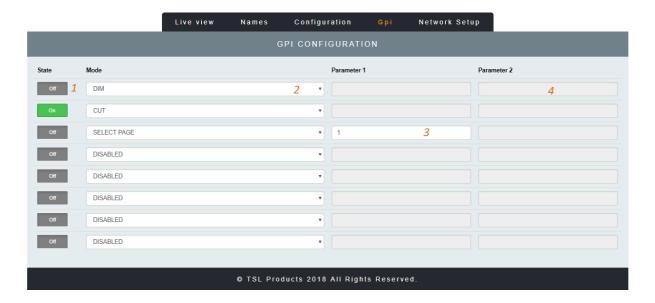
Clicking on the CONFIGURATION Tab of the MPA1-SOLO-MADI Webpage displays the following:

	Live view Names Configu	ration Gpi Network Setup
	LINE OUTPUT	OTHER CONTROLS
		1
2 Level	Reference Attenuated	Local config Disabled Enabled
4 Mode	On Mute Mute on HP insert	Screen brightness
5 Gain	Fixed Variable	3
	LOUDSPEAKER MODE	SOURCE
Speakers	On Mute Mute on HP insert	Source I/O Coaxial Optical
	6	7
	METER THRESHOLD	
Alarm (Red)	-10 ▼ DB	8
Warning (Yellow)	10	
warning (reliow)	-18	9
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Element	Function	Notes
1	Local Config	Enables/Disables configuration from the front panel of the MPA1-SOLO-MADI
2	Line Output Level	Sets the Output Level of the Balanced Line Level Outputs on the MPA1-SOLO-MADI
3	Screen Brightness	Sets the Brightness Level of the front panel display
4	Line Output Mode	Determines behaviour of Balanced Line Level Outputs upon insertion of Headphones.
5	Fixed or Variable Line Output	Determines if Balanced Line Level Outputs provide a Fixed or Variable Output
6	Loudspeaker Mode	Determines behaviour of Internal Loudspeakers upon insertion of Headphones.
7	Source I/O	Switch to set whether the Coaxial BNC or Optical SFP input is to be used to receive MADI
8	Meter Threshold RED	Sets audio threshold at which audio level meters begin to display RED
9	Meter Threshold YELLOW	Sets audio threshold at which audio level meters begin to display YELLOW



Clicking on the GPI Tab of the MPA1-SOLO-MADI Webpage displays the following:



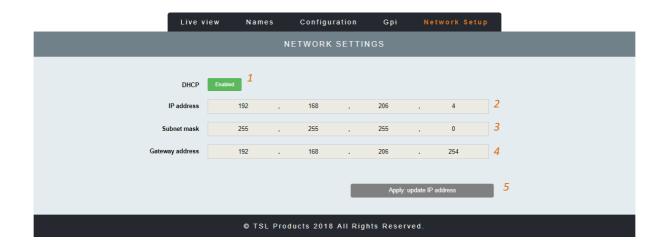
Element	Function	Notes
1	Virtual GPI State button	Displays current Virtual GPI status. Also allows manual activation of Virtual GPI.
2	Virtual GPI Mode Selector	Allows GPI 'Action' to be assigned to Virtual GPI Input
3	Virtual GPI Parameter 1	Defines first Parameter associated with selected GPI 'Action'
4	Virtual GPI Parameter 2	Defines second Parameter associated with selected GPI 'Action'

Please note that Virtual GPI Actions such as DIM and CUT require no further Parameters to be defined, whilst Virtual GPI Actions such as SELECT PAGE or SELECT PAGE and RETURN require entry of the desired audio channel.

All MPA1 Virtual GPI Parameters are zero based, with audio channels 1-16 represented as Parameters 0-15.



Clicking on the NETWORK SETTINGS Tab of the MPA1-SOLO-MADI Webpage displays the following:



Element	Function	Notes
1	DHCP	Enables/Disables DHCP Mode
2	IP Address	Displays current IP Address and allows new IP Address to be entered.
3	Subnet Mask	Displays current Subnet Mask and allows new Subnet Mask to be entered.
4	Gateway Address	Displays current Gateway Address and allows new Gateway Address to be entered.
5	Apply IP Address	Button to apply IP, Subnet and Gateway addresses to the MPA1-SOLO-MADI



MPA1-SOLO-DANTE Web Page

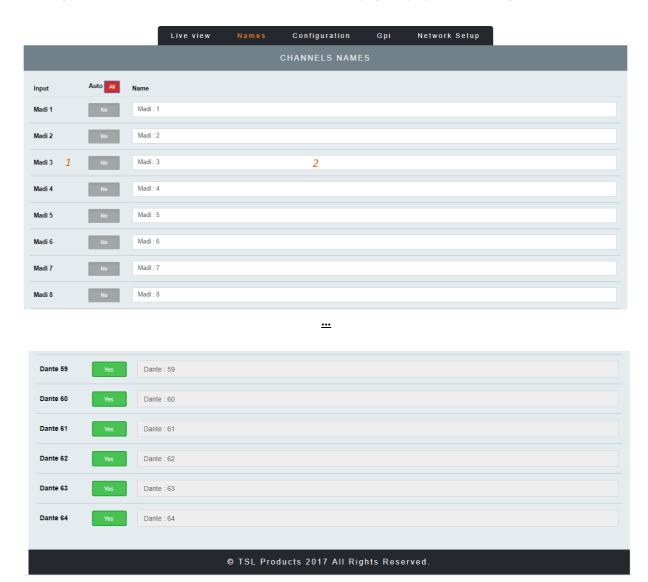
Clicking on the LIVE VIEW Tab of the MPA1-SOLO-DANTE Webpage displays the following:



Element	Function	Notes
1	Switch to Mute Headphone Output	Red when Muted, Grey when Active
2	Headphone Output Level adjustment	Adjust as required
3	Switch to MUTE the Loudspeaker Output	Red when Muted, Grey when Active
4	Loudspeaker Output Level adjustment	Adjust as required
5	Source Selection	Drop down list allowing Input selection of
		MADI Sources 1-64 and Dante Sources 1-64
6	Audio Level Meter Display	Displays Audio Levels in accordance with Input
		Selection
7	Stereo/Mono Switch	Switches between Mono and Stereo
		monitoring modes
8	Audio Monitor Selectors	Selects the Single Audio Channel or Audio Pair
		routed to the Headphone and Loudspeaker
		Outputs



Clicking on the NAMES Tab of the MPA1-SOLO-DANTE Webpage displays the following:



Element	Function	Notes
1	DANTE/MADI Channel Number	
2	Source Channel Names	Allows friendly names to be applied to DANTE
		Channels 1-64 and MADI Channels 1-64*

^{*} Please note that the Auto Naming function is fixed to NO on the MP1-SOLO-MADI for MADI Sources. When Auto Naming is set to 'YES' for DANTE sources, friendly names will be ignored, with Source Names as set in DANTE Controller



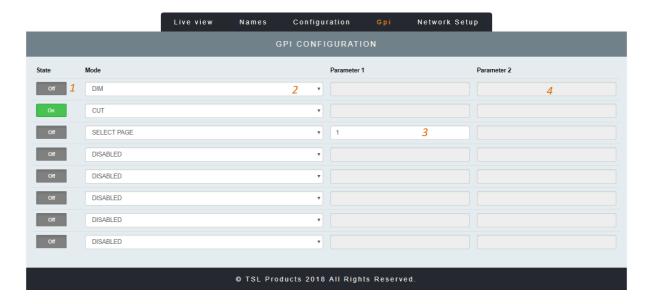
Clicking on the CONFIGURATION Tab of the MPA1-SOLO-DANTE Webpage displays the following:

	Live view Names Configu	uration Gpi Network Setup
	LINE OUTPUT	OTHER CONTROLS
		1
2 Level	Reference Attenuated	Local config Disabled Enabled
4 Mode	On Mute Mute on HP insert	Screen brightness
5 Gain	Fixed Variable	3
	LOUDSPEAKER MODE	SOURCE
Speakers	On Mute Mute on HP insert	Source I/O Coaxial Optical
	6	7
	METER THRESHOLD	
Alarm (Red)	-10 ▼ DB	8
Wanning Ovellend	40	
Warning (Yellow)	-18 v DB	9
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Element	Function	Notes
1	Local Config	Enables/Disables configuration from the front
		panel of the MPA1-SOLO-DANTE
2	Line Output Level	Sets the Output Level of the Balanced Line
		Level Outputs on the MPA1-SOLO-DANTE
3	Screen Brightness	Sets the Brightness Level of the front panel
		display
4	Line Output Mode	Determines behaviour of Balanced Line Level
	·	Outputs upon insertion of Headphones.
5	Fixed or Variable Line Output	Determines if Balanced Line Level Outputs
	·	provide a Fixed or Variable Output
6	Loudspeaker Mode	Determines behaviour of Internal
	•	Loudspeakers upon insertion of Headphones.
7	Source I/O	Switch to set whether the Coaxial BNC or
		Optical SFP input is to be used to receive MADI
8	Meter Threshold RED	Sets audio threshold at which audio level
		meters begin to display RED
9	Meter Threshold YELLOW	Sets audio threshold at which audio level
		meters begin to display YELLOW



Clicking on the GPI Tab of the MPA1-SOLO-DANTE Webpage displays the following:



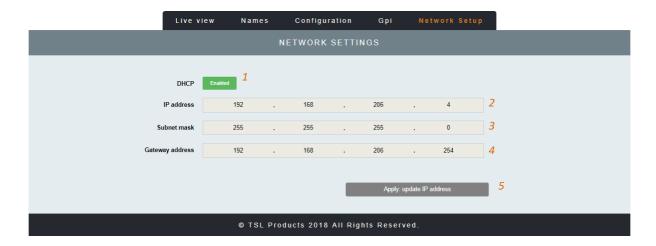
Element	Function	Notes
1	Virtual GPI State button	Displays current Virtual GPI status. Also allows manual activation of Virtual GPI.
2	Virtual GPI Mode Selector	Allows GPI 'Action' to be assigned to Virtual GPI Input
3	Virtual GPI Parameter 1	Defines first Parameter associated with selected GPI 'Action'
4	Virtual GPI Parameter 2	Defines second Parameter associated with selected GPI 'Action'

Please note that Virtual GPI Actions such as DIM and CUT require no further Parameters to be defined, whilst Virtual GPI Actions such as SELECT PAGE or SELECT PAGE and RETURN require entry of the desired audio channel.

All MPA1 Virtual GPI Parameters are zero based, with audio channels 1-16 represented as Parameters 0-15.



Clicking on the NETWORK SETTINGS Tab of the MPA1-SOLO-DANTE Webpage displays the following:

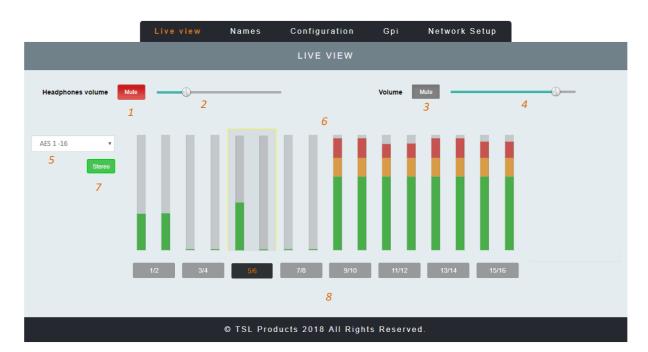


Element	Function	Notes
1	DHCP	Enables/Disables DHCP Mode
2	IP Address	Displays current IP Address and allows new IP
		Address to be entered.
3	Subnet Mask	Displays current Subnet Mask and allows new
		Subnet Mask to be entered.
4	Gateway Address	Displays current Gateway Address and allows
		new Gateway Address to be entered.
5	Apply IP Address	Button to apply IP, Subnet and Gateway
		addresses to the MPA1-SOLO-DANTE



MPA1-SOLO-8 Web Page

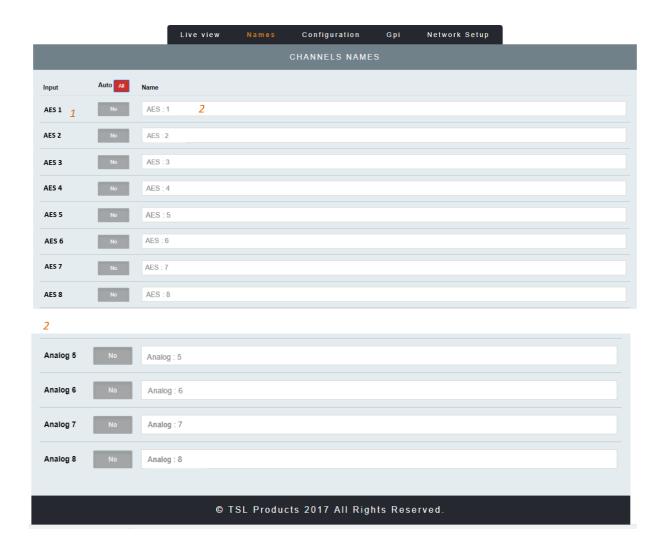
Clicking on the LIVE VIEW Tab of the MPA1-SOLO-8 Webpage displays the following:



Element	Function	Notes
1	Switch to Mute Headphone Output	Red when Muted, Grey when Active
2	Headphone Output Level adjustment	Adjust as required
3	Switch to MUTE the Loudspeaker Output	Red when Muted, Grey when Active
4	Loudspeaker Output Level Adjustment	Adjust as required
5	Source Selection	Drop down list allowing Input selection of AES Sources 1-16 and Analog Sources 1-16.
6	Audio Level Meter Display	Displays Audio Levels in accordance with Input Selection
7	Stereo/Mono Switch	Switches between Mono and Stereo monitoring modes.
8	Audio Monitor Selectors	Selects the Single Audio Channel or Audio Pair routed to the headphone and Loudspeaker Outputs



Clicking on the NAMES Tab of the MPA1-SOLO-8 Webpage displays the following:



Element	Function	Notes
1	AES/Analog Channel Number	
2	Source Channel Names	Allows friendly names to be applied to AES Channels 1-16 and Analog Channels 1-16



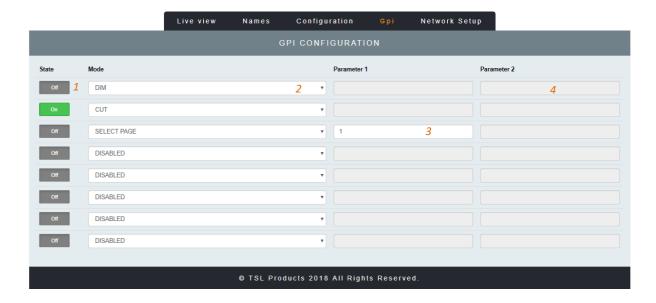
Clicking on the CONFIGURATION Tab of the MPA1-SOLO-8 Webpage displays the following:

	Live view	Names Config	guration Gpi	Network Setup	
	LINE OUTPUT			OTHER C	ONTROLS
				1	
2 Level	Reference	Attenuated	Local config	Disabled	Enabled
4 Mode	On Mute	Mute on HP insert	Screen brightness		<u> </u>
5 Gain	Fixed	Variable		3	
	LOUDSPEAKER MC)DE			
Speakers	On Mute	Mute on HP insert	ı		
	METER THRESHO	LD			
Alarm (Red)	- 10	▼ DB	7		
Warning (Yellow)	- 18	▼ DB	8		
		© TSL Products 20	18 All Rights Reser	ved.	

Element	Function	Notes			
1	Local Config	Enables/Disables configuration from the front			
		panel of the MPA1-SOLO-8			
2	Line Output Level	Sets the Output Level of the Balanced Line			
		Level Outputs on the MPA1-SOLO-8			
3	Screen Brightness	Sets the Brightness Level of the front panel			
		display			
4	Line Output Mode	Determines behaviour of Balanced Line Level			
		Outputs upon insertion of Headphones.			
5	Fixed or Variable Line Output	Determines if Balanced Line Level Outputs			
		provide a Fixed or Variable Output			
6	Loudspeaker Mode	Determines behaviour of Internal			
		Loudspeakers upon insertion of Headphones.			
7	Meter Threshold RED	Sets audio threshold at which audio level			
		meters begin to display RED			
8	Meter Threshold YELLOW	Sets audio threshold at which audio level			
		meters begin to display YELLOW			



Clicking on the GPI Tab of the MPA1-SOLO-8 Webpage displays the following:



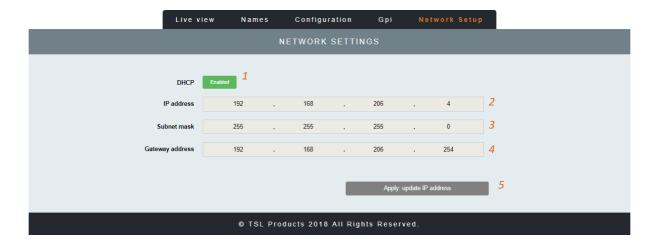
Element	Function	Notes
1	Virtual GPI State button	Displays current GPI status. Also allows manual activation of Virtual GPI.
2	Virtual GPI Mode Selector	Allows GPI 'Action' to be assigned to GPI Input
3	Virtual GPI Parameter 1	Defines first Parameter associated with selected GPI 'Action'
4	Virtual GPI Parameter 2	Defines second Parameter associated with selected GPI 'Action'

Please note that Virtual GPI Actions such as DIM and CUT require no further Parameters to be defined, whilst Virtual GPI Actions such as SELECT PAGE or SELECT PAGE and RETURN require entry of the desired audio channel.

All MPA1 Virtual GPI Parameters are zero based, with audio channels 1-16 represented as Parameters 0-15.



Clicking on the NETWORK SETTINGS Tab of the MPA1-SOLO-8 Webpage displays the following:

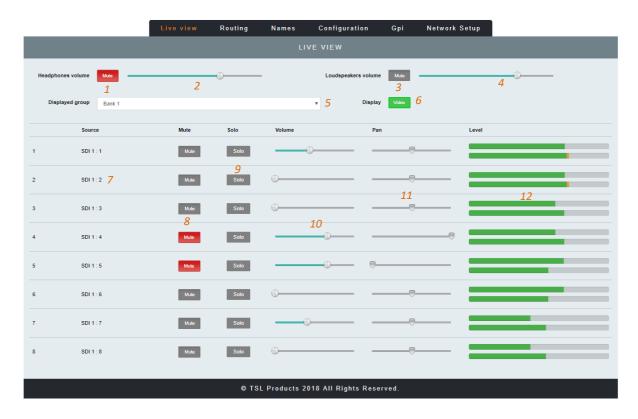


Element	Function	Notes
1	DHCP	Enables/Disables DHCP Mode
2	IP Address	Displays current IP Address and allows new IP
		Address to be entered.
3	Subnet Mask	Displays current Subnet Mask and allows new
		Subnet Mask to be entered.
4	Gateway Address	Displays current Gateway Address and allows
		new Gateway Address to be entered.
5	Apply IP Address	Button to apply IP, Subnet and Gateway
		addresses to the MPA1-SOLO-8



MPA1-MIX-SDI Web Page

Clicking on the LIVE VIEW Tab of the MPA1-MIX-SDI Webpage displays the following:



Element	Function	Notes
1	Switch to Mute Headphone Output	Red when Muted, Grey when Active
2	Headphone Output Level adjustment	Adjust as required
3	Switch to Mute the Loudspeaker Output	Red when Muted, Grey when Active
4	Loudspeaker Output Level adjustment	Adjust as required
5	Mix Bank Selection	Drop down list allowing recall of one of 16
		Audio Mix Banks (A-P)
6	Display	Switches Front Panel Display of MPA1-MIX-SDI
		between Audio Meters and SDI Video Source
7	Source Name	Displays Source and Friendly Name*
8	Channel Mute	Mutes Selected Channel
9	Channel Solo	Places Selected Channel in Solo Mode (Click
		and Hold)
10	Channel Volume	Adjusts channel Volume within overall Mix
11	Channel Pan	Adjusts channel Pan within overall Mix
12	Audio Level Meters	Audio Level Display

^{*} Friendly Names can be set in the NAMES Tab

Clicking on the ROUTING Tab of the MPA1-MIX-SDI Webpage displays the following:



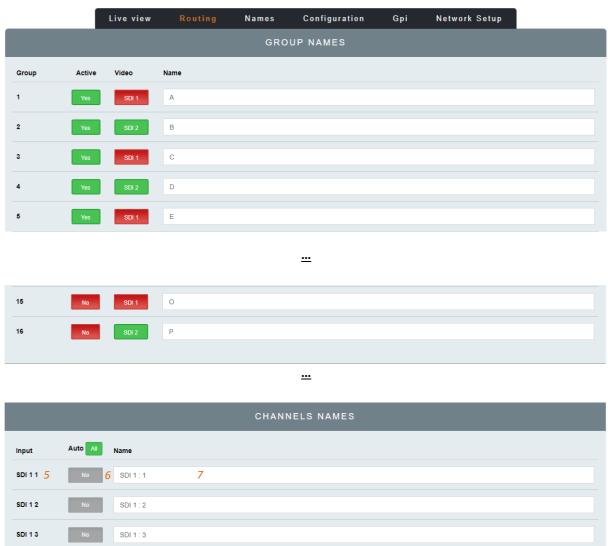
		Live view		Names	Configuration	Gpi	Network Setup	
				GROUP R	OUTING TABLE			
Control	Gain			Stereo	Source			
					Α			
1	0 dB		*	Stereo	SDI 1 1: SDI 1 : 1			*
2	0 dB		•	Stereo	SDI 1 3: SDI 1 : 3			v
3	0 dB		*	Stereo	SDI 1 5: SDI 1 : 5			¥
4	0 dB		₹	Stereo	SDI 17: SDI 1:7			*
5	0 dB		₹	Stereo	SDI 2 1: SDI 2 : 17			¥
6	0 dB		*	Stereo	SDI 2 3; SDI 2 ; 19			v
7	0 dB		*	Stereo	SDI 2 5: SDI 2 : 21			*
8	0 dB		٧	Stereo	SDI 2 7: SDI 2 : 23			*
					В			
1	0 dB		*	Stereo	Analog/AES 1: Analo	g + AES		•
2	0 dB		٧	Stereo	SDI 1 3; SDI 1 ; 3			•



Element	Function	Notes
1	Mix Bank Identifier	Identifies one of the 16 Mix Banks (A-P)
2	Channel Number	Channel number of source contributing to Mix Bank (1-8)
3	Audio Channel Gain Preset	Allows +20dB, +10db, 0dB, -10dB or -20dB to be applied to Audio Channel Input
4	Stereo/Mono Switch	Switches Input Channel between Audio Channel and Audio Pair Mode
5	Audio Channel Selector	Selects Audio Channels contributing to chosen Mix Bank. Audio Channels Embedded in SDI 1, SDI 2 and AES and Analogue Inputs can be selected.



Clicking on the NAMES Tab of the MPA1-MIX-SDI Webpage displays the following:



SDI 1 4 SDI 1:4

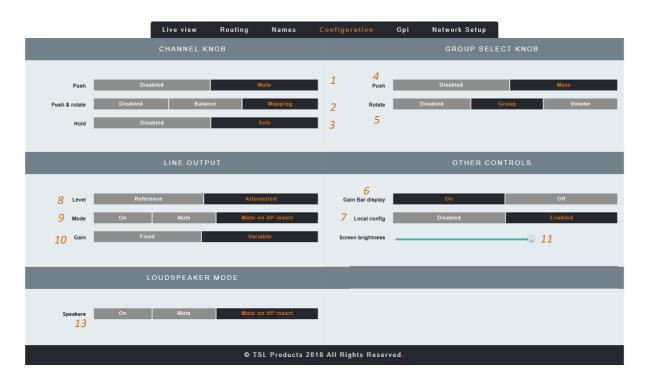
Analog/AES	No	Analog + AES
Analog/AES	No	Analog + AES
Analog/AES	No	Analog + AES
Analog/AES	No	Analog + AES
		© TSL Products 2017 All Rights Reserved.



Element	Function	Notes
1	Mix Bank Identifier	Identifies one of the 16 Mix Banks (A-P)
2	Active Switch	Determines which MIX Banks are available for selection on the front panel of the MPA1-MIX-SDI.
3	Video Switch	Determines which SDI Video Source is displayed on the front panel, reclocked SDI Output and HDMI Output for each MIX Bank
4	Mix Bank Name	Friendly Name of MIX Bank*
5	Physical Input Identifier	Physical Input and Channel Number
6	Auto Naming Function	Not Supported
7	Friendly Name	Allows friendly names to be applied to SDI Embedded Audio, AES and Analogue Audio Channels



Clicking on the CONFIGURATION Tab of the MPA1-MIX-SDI Webpage displays the following:



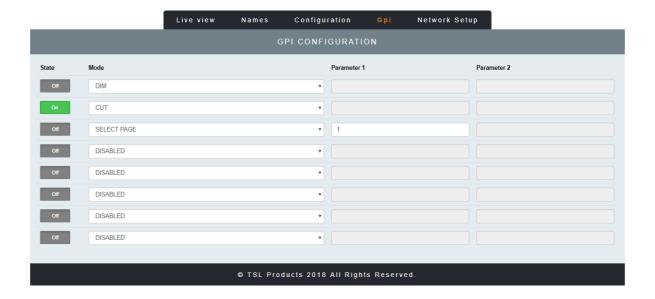
Element	Function	Notes
1	Channel Knob Push	Enables/Disables 'Push to Mute' function of
		Channel Rotary Encoders on front panel of
		MPA1-MIX-MADI
2	Channel Knob Push and Rotate	Determines 'Push and Rotate' behaviour of
		Channel Rotary Encoders on the front panel of
		the MPA1-MIX-MADI. When set to Balance,
		the Audio Balance of the selected Audio
		Channel can be adjusted. When set to
		Mapping, the Physical Audio Channel assigned
	Change al Korah Doob and Hald	to the Mix Channel can be selected.
3	Channel Knob Push and Hold	Enables/Disables 'Push and Hold to Solo'
		function of Channel Rotary Encoders on front panel of MPA1-MIX-MADI
4	Group Select Knob Push	Enables/Disables Push to MUTE function of
4	Group select Knob Pasii	Headphone, Internal Loudspeakers and
		Balanced Line Outputs using Group Select
		Knoh
5	Group Select Knob Rotate	Determines whether Group Select Knob is
	,	Enabled/Disabled. Selecting Group allows Mix
		Groups to be selected from the front panel of
		the MPA-MIX-MADI, whilst selecting Volume
		allows level adjustment on the Internal
		Loudspeakers and Balanced Line Level
		Outputs.
6	Gain Bar Display	Enables/Disables the Gain Bar Display from the
		front panel of the MPA1-MIX-MADI



7	Local Config	Enables/Disables configuration from the front panel of the MPA1-MIX-SDI
8	Line Output Level	Sets the Output Level of the Balanced Line Level Outputs on the MPA1-MIX-SDI
9	Line Output Mode	Determines behaviour of Balanced Line Level Outputs upon insertion of Headphones.
10	Fixed or Variable Line Output	Determines if Balanced Line Level Outputs provide a Fixed or Variable Output
11	Screen Brightness	Sets the Brightness Level of the front panel display
12	MADI Source	Determines if MADI Sources are derived from Coaxial BNC or Optical SFP Input.
13	Loudspeaker Mode	Determines the behaviour of Internal Loudspeakers upon insertion of Headphones



Clicking on the GPI Tab of the MPA1-MIX-SDI Webpage displays the following:



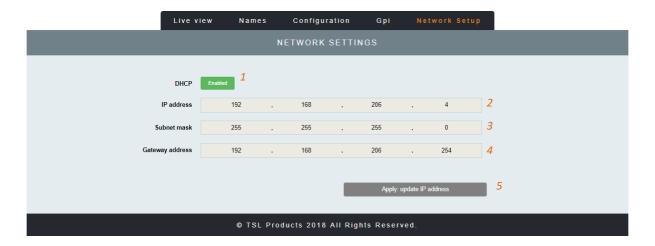
Element	Function	Notes
1	Virtual GPI State button	Displays current GPI status. Also allows manual
		activation of Virtual GPI.
2	Virtual GPI Mode Selector	Allows GPI 'Action' to be assigned to GPI Input
3	Virtual GPI Parameter 1	Defines first Parameter associated with
		selected GPI 'Action'
4	Virtual GPI Parameter 2	Defines second Parameter associated with selected GPI 'Action'

Please note that Virtual GPI Actions such as DIM and CUT require no further Parameters to be defined, whilst Virtual GPI Actions such as SELECT PAGE or SELECT PAGE and RETURN require entry of the desired audio channel.

All MPA1 Virtual GPI Parameters are zero based, with audio channels 1-16 represented as Parameters 0-15.



Clicking on the NETWORK SETTINGS Tab of the MPA1-MIX-SDI Webpage displays the following:

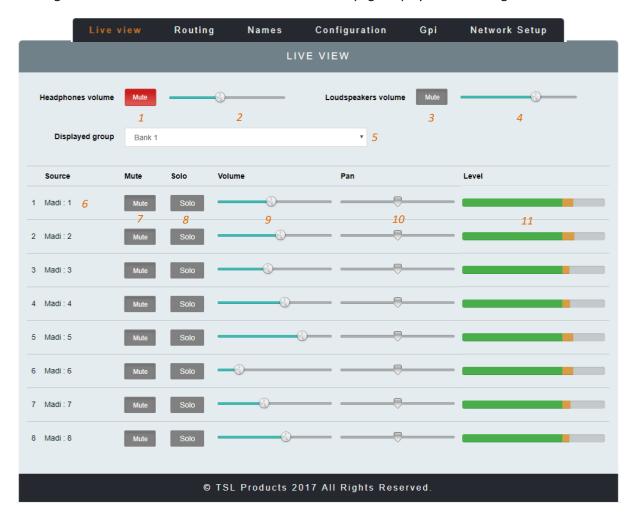


Element	Function	Notes
1	DHCP	Enables/Disables DHCP Mode
2	IP Address	Displays current IP Address and allows new IP Address to be entered.
3	Subnet Mask	Displays current Subnet Mask and allows new Subnet Mask to be entered.
4	Gateway Address	Displays current Gateway Address and allows new Gateway Address to be entered.
5	Apply IP Address	Button to apply IP, Subnet and Gateway addresses to the MPA1-MIX-SDI



MPA1-MIX-MADI Web Page

Clicking on the LIVE VIEW Tab of the MPA1-MIX-MADI Webpage displays the following:

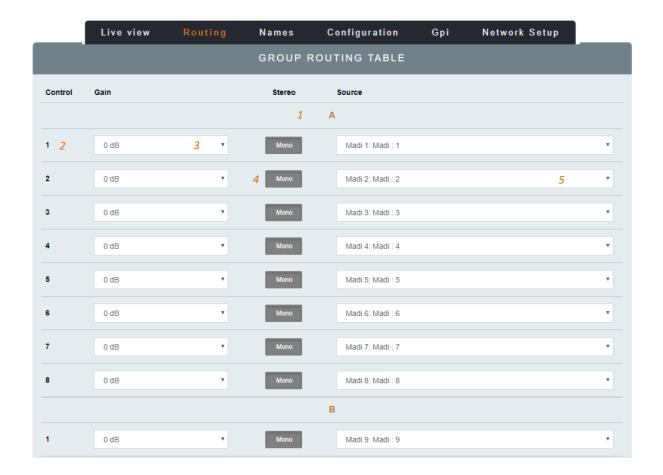


Element	Function	Notes
1	Switch to Mute Headphone Output	Red when Muted, Grey when Active
2	Headphone Output Level adjustment	Adjust as required
3	Switch to Mute the Loudspeaker Output	Red when Muted, Grey when Active
4	Loudspeaker Output Level adjustment	Adjust as required
5	Mix Bank Selection	Drop down list allowing recall of one of 16
		Audio Mix Banks (A-P)
6	Source Name	Displays Source and Friendly Name*
7	Channel Mute	Mutes Selected Channel
8	Channel Solo	Places Selected Channel in Solo Mode (Click
		and Hold)
9	Channel Volume	Adjusts channel Volume within overall Mix
10	Channel Pan	Adjusts channel Pan within overall Mix
11	Audio Level Meters	Audio Level Display

^{*} Friendly Names can be set in the NAMES Tab



Clicking on the ROUTING Tab of the MPA1-MIX-MADI Webpage displays the following:

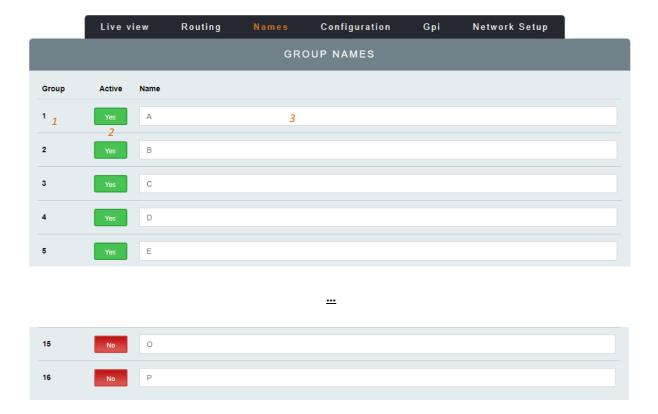




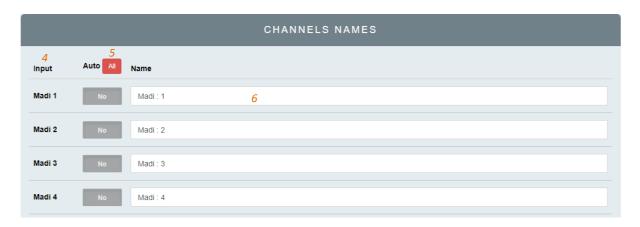
Element	Function	Notes
1	Mix Bank Identifier	Identifies one of the 16 Mix Banks (A-P)
2	Channel Number	Channel number of source contributing to Mix Bank (1-8)
3	Audio Channel Gain Preset	Allows +20dB, +10db, 0dB, -10dB or -20dB to be applied to Audio Channel Input
4	Stereo/Mono Switch	Switches Input Channel between Audio Channel and Audio Pair Mode
5	Audio Channel Selector	Selects Audio Channels contributing to chosen Mix Bank. MADI Channels 1-64 can be selected.



Clicking on the NAMES Tab of the MPA1-MIX-MADI Webpage displays the following:



•••







Element	Function	Notes
1	Mix Bank Identifier	Identifies one of the 16 Mix Banks (A-P)
2	Active Switch	Determines which MIX Banks are available for selection on the front panel of the MPA1-MIX-MADI.
3	Mix Bank Name	Friendly Name of MIX Bank*
4	Physical Input Identifier	Physical Input and Channel Number
5	Auto Naming Function	Not Supported
6	Friendly Name	Allows friendly names to be applied to MADI Channels (1-64) and Analogue Audio Channels



Clicking on the CONFIGURATION Tab of the MPA1-MIX-MADI Webpage displays the following:



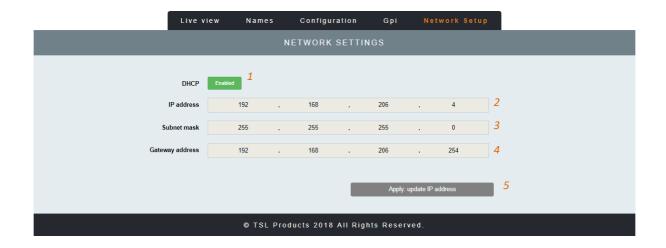
Element	Function	Notes
1	Channel Knob Push	Enables/Disables 'Push to Mute' function of Channel Rotary Encoders on front panel of MPA1-MIX-MADI
2	Channel Knob Push and Rotate	Determines 'Push and Rotate' behaviour of Channel Rotary Encoders on the front panel of the MPA1-MIX-MADI. When set to Balance, the Audio Balance of the selected Audio Channel can be adjusted. When set to Mapping, the Physical Audio Channel assigned to the Mix Channel can be selected.
3	Channel Knob Push and Hold	Enables/Disables 'Push and Hold to Solo' function of Channel Rotary Encoders on front panel of MPA1-MIX-MADI
4	Group Select Knob Push	Enables/Disables Push to MUTE function of Headphone, Internal Loudspeakers and Balanced Line Outputs using Group Select Knob
5	Group Select Knob Rotate	Determines whether Group Select Knob is Enabled/Disabled. Selecting Group allows Mix Groups to be selected from the front panel of the MPA-MIX-MADI, whilst selecting Volume allows level adjustment on the Internal Loudspeakers and Balanced Line Level Outputs.
6	Gain Bar Display	Enables/Disables the Gain Bar Display from the front panel of the MPA1-MIX-MADI
7	Local Config	Enables/Disables configuration from the front panel of the MPA1-MIX-MADI



8	Line Output Level	Sets the Output Level of the Balanced Line Level Outputs on the MPA1-MIX-SDI
9	Line Output Mode	Determines behaviour of Balanced Line Level Outputs upon insertion of Headphones.
10	Fixed or Variable Line Output	Determines if Balanced Line Level Outputs provide a Fixed or Variable Output
11	Screen Brightness	Sets the Brightness Level of the front panel display
12	MADI Source	Determines if MADI Sources are derived from Coaxial BNC or Optical SFP Input.
13	Loudspeaker Mode	Determines the behaviour of Internal Loudspeakers upon insertion of Headphones



Clicking on the NETWORK SETUP Tab of the MPA1-MIX-MADI Webpage displays the following:

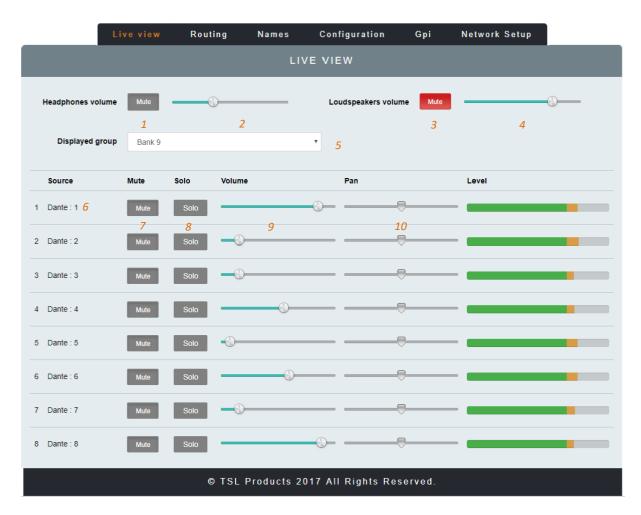


Element	Function	Notes
1	DHCP	Enables/Disables DHCP Mode
2	IP Address	Displays current IP Address and allows new IP
		Address to be entered.
3	Subnet Mask	Displays current Subnet Mask and allows new
		Subnet Mask to be entered.
4	Gateway Address	Displays current Gateway Address and allows
		new Gateway Address to be entered.
5	Apply IP Address	Button to apply IP, Subnet and Gateway
		addresses to the MPA1-MIX-MADI



MPA1-MIX-DANTE Web Page

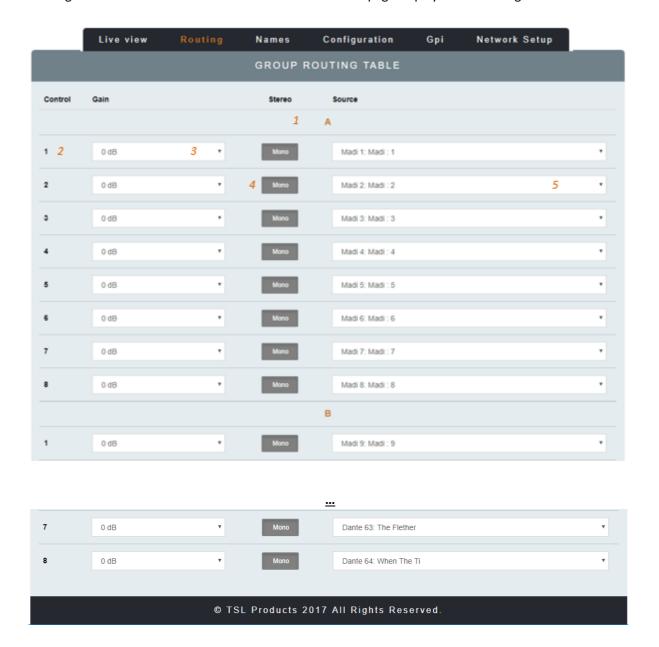
Clicking on the LIVE VIEW Tab of the MPA1-MIX-DANTE Webpage displays the following:



Element	Function	Notes
1	Switch to Mute Headphone Output	Red when Muted, Grey when Active
2	Headphone Output Level adjustment	Adjust as required
3	Switch to Mute the Loudspeaker Output	Red when Muted, Grey when Active
4	Loudspeaker Output Level adjustment	Adjust as required
5	Mix Bank Selection	Drop down list allowing recall of one of 16
		Audio Mix Banks (A-P)
6	Source Name	Displays Source and Friendly Name*
7	Channel Mute	Mutes Selected Channel
8	Channel Solo	Places Selected Channel in Solo Mode (Click
		and Hold)
9	Channel Volume	Adjusts channel Volume within overall Mix
10	Channel Pan	Adjusts channel Pan within overall Mix
11	Audio Level Meters	Audio Level Display



Clicking on the ROUTING Tab of the MPA1-MIX-DANTE Webpage displays the following:

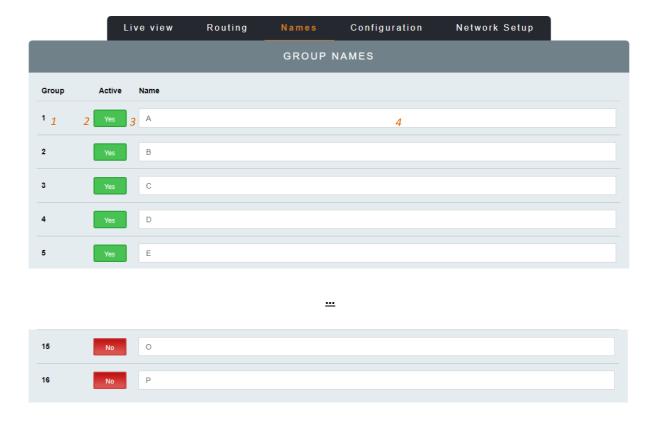




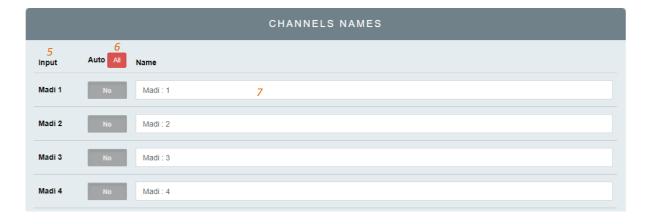
Element	Function	Notes
1	Mix Bank Identifier	Identifies one of the 16 Mix Banks (A-P)
2	Channel Number	Channel number of source contributing to Mix Bank (1-8)
3	Audio Channel Gain Preset	Allows +20dB, +10db, 0dB, -10dB or -20dB to be applied to Audio Channel Input
4	Stereo/Mono Switch	Switches Input Channel between Audio Channel and Audio Pair Mode
5	Audio Channel Selector	Selects Audio Channels contributing to chosen Mix Bank. MADI Channels 1-64 can be selected.



Clicking on the NAMES Tab of the MPA1-MIX-DANTE Webpage displays the following:



•••







Element	Function	Notes
1	Mix Bank Identifier	Identifies one of the 16 Mix Banks (A-P)
2	Active Switch	Determines which MIX Banks are available for selection on the front panel of the MPA1-MIX-SDI.
3	Video Switch	Determines which SDI Video Source is displayed on the front panel, reclocked SDI Output and HDMI Output for each MIX Bank
4	Mix Bank Name	Friendly Name of MIX Bank*
5	Physical Input Identifier	Physical Input and Channel Number
6	Auto Naming Function	Not Supported
7	Friendly Name	Allows friendly names to be applied to MADI Channels (1-64) and Analogue Audio Channels



Clicking on the CONFIGURATION Tab of the MPA1-MIX-DANTE Webpage displays the following:



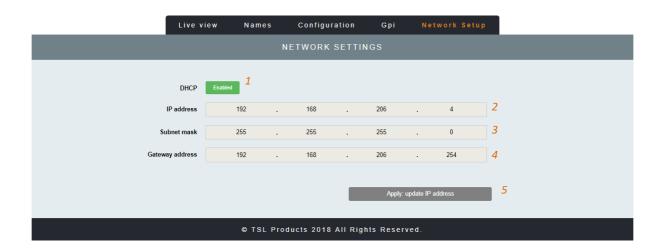
Element	Function	Notes
1	Channel Knob Push	Enables/Disables 'Push to Mute' function of Channel Rotary Encoders on front panel of MPA1-MIX-DANTE
2	Channel Knob Push and Rotate	Determines 'Push and Rotate' behaviour of Channel Rotary Encoders on the front panel of the MPA1-MIX-DANTE. When set to Balance, the Audio Balance of the selected Audio Channel can be adjusted. When set to Mapping, the Physical Audio Channel assigned to the Mix Channel can be selected.
3	Channel Knob Push and Hold	Enables/Disables 'Push and Hold to Solo' function of Channel Rotary Encoders on front panel of MPA1-MIX-DANTE
4	Group Select Knob Push	Enables/Disables Push to MUTE function of Headphone, Internal Loudspeakers and Balanced Line Outputs using Group Select Knob
5	Group Select Knob Rotate	Determines whether Group Select Knob is Enabled/Disabled. Selecting Group allows Mix Groups to be selected from the front panel of the MPA-MIX-DANTE, whilst selecting Volume allows level adjustment on the Internal Loudspeakers and Balanced Line Level Outputs.
6	Gain Bar Display	Enables/Disables the Gain Bar Display from the front panel of the MPA1-MIX-DANTE
7	Local Config	Enables/Disables configuration from the front panel of the MPA1-MIX-DANTE



8	Line Output Level	Sets the Output Level of the Balanced Line Level Outputs on the MPA1-MIX-DANTE
9	Line Output Mode	Determines behaviour of Balanced Line Level Outputs upon insertion of Headphones.
10	Screen Brightness	Sets the Brightness Level of the front panel display
11	MADI Source	Determines if MADI Sources are derived from Coaxial BNC or Optical SFP Input.
12	Loudspeaker Mode	Determines the behaviour of Internal Loudspeakers upon insertion of Headphones



Clicking on the NETWORK SETUP Tab of the MPA1-MIX-DANTE Webpage displays the following:

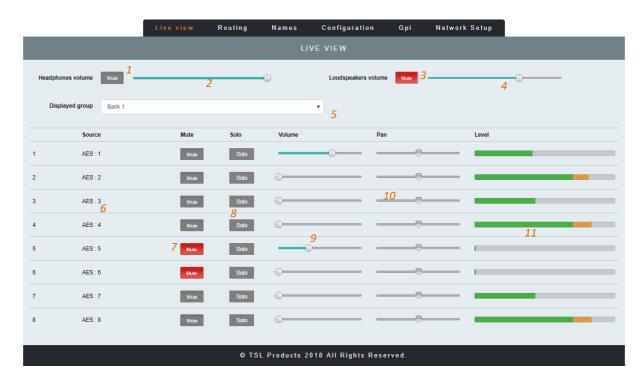


Element	Function	Notes
1	DHCP	Enables/Disables DHCP Mode
2	IP Address	Displays current IP Address and allows new IP Address to be entered.
3	Subnet Mask	Displays current Subnet Mask and allows new Subnet Mask to be entered.
4	Gateway Address	Displays current Gateway Address and allows new Gateway Address to be entered.
5	Apply IP Address	Button to apply IP, Subnet and Gateway addresses to the MPA1-MIX-SDI



MPA1-MIX-8 Web Page

Clicking on the LIVE VIEW Tab of the MPA1-MIX-8 Webpage displays the following:



Element	Function	Notes
1	Switch to Mute Headphone Output	Red when Muted, Grey when Active
2	Headphone Output Level adjustment	Adjust as required
3	Switch to Mute the Loudspeaker Output	Red when Muted, Grey when Active
4	Loudspeaker Output Level adjustment	Adjust as required
5	Mix Bank Selection	Drop down list allowing recall of one of 16
		Audio Mix Banks (A-P)
6	Source Name	Displays Source and Friendly Name*
7	Channel Mute	Mutes Selected Channel
8	Channel Solo	Places Selected Channel in Solo Mode (Click
		and Hold)
9	Channel Volume	Adjusts channel Volume within overall Mix
10	Channel Pan	Adjusts channel Pan within overall Mix
11	Audio Level Meters	Audio Level Display

^{*} Friendly Names can be set in the NAMES Tab



Clicking on the ROUTING Tab of the MPA1-MIX-8 Webpage displays the following:

		Live view		Names	Configuration	Gpi	Network Setup		
				GROUP R	OUTING TABLE				
Control	Gain			Stereo	Source				
					A 1				
1 2	0 dB		▼ 3	Mono 4	AES 1: AES : 1			5	▼
2	0 dB		*	Mono	AES 2: AES : 2				٧
3	0 dB		*	Mono	AES 3: AES : 3				٧
4	0 dB		*	Mono	AES 4: AES : 4				٧
5	0 dB		•	Mono	AES 5: AES : 5				*
6	0 dB		•	Mono	AES 6: AES : 6				*
7	0 dB		•	Mono	AES 7: AES : 7				*
8	0 dB		*	Mono	AES 8: AES : 8				*
					В				
1	0 dB		•	Mono	AES 9: AES : 9				*
2	0 dB		•	Mono	AES 10: AES : 10				▼
3	0 dB		▼	Mono	AES 11: AES : 11				•

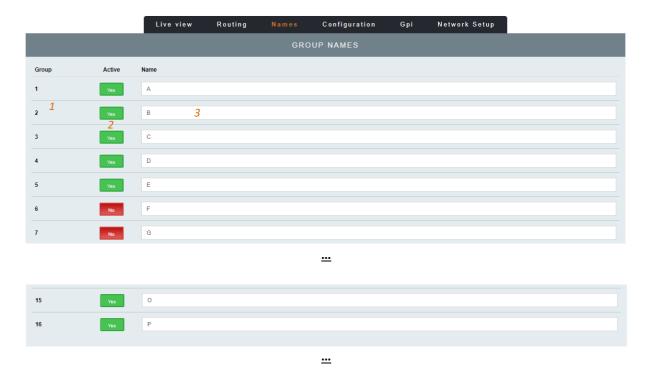
•••

5	0 dB	Y	Mono	۳
6	0 dB	*	Mono	۳
7	0 dB	v	Mono	۳
8	0 dB	v	Mono	۳
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Element	Function	Notes
1	Mix Bank Identifier	Identifies one of the 16 Mix Banks (A-P)
2	Channel Number	Channel number of source contributing to Mix Bank (1-8)
3	Audio Channel Gain Preset	Allows +20dB, +10db, 0dB, -10dB or -20dB to be applied to Audio Channel Input
4	Stereo/Mono Switch	Switches Input Channel between Audio Channel and Audio Pair Mode
5	Audio Channel Selector	Selects Audio Channels contributing to chosen Mix Bank. AES and Analogue Inputs can be selected.



Clicking on the NAMES Tab of the MPA1-MIX-8 Webpage displays the following:



Input Auto A Name

AES1 4 No 5 AES:1 6

AES2 No AES:2

AES3 No AES:3

AES4 No AES:5





Element	Function	Notes
1	Mix Bank Identifier	Identifies one of the 16 Mix Banks (A-P)
2	Active Switch	Determines which MIX Banks are available for
		selection on the front panel of the MPA1-MIX-
		8.
3	Mix Bank Name	Friendly Name of MIX Bank*
4	Physical Input Identifier	Physical Input and Channel Number
5	Auto Naming Function	Not Supported
6	Friendly Name	Allows friendly names to be applied to AES and
		Analogue Audio Channels



Clicking on the CONFIGURATION Tab of the MPA1-MIX-8 Webpage displays the following:



Element	Function	Notes
1	Channel Knob Push	Enables/Disables 'Push to Mute' function of Channel Rotary Encoders on front panel of MPA1-MIX-8
2	Channel Knob Push and Rotate	Determines 'Push and Rotate' behaviour of Channel Rotary Encoders on the front panel of the MPA1-MIX-8. When set to Balance, the Audio Balance of the selected Audio Channel can be adjusted. When set to Mapping, the Physical Audio Channel assigned to the Mix Channel can be selected.
3	Channel Knob Push and Hold	Enables/Disables 'Push and Hold to Solo' function of Channel Rotary Encoders on front panel of MPA1-MIX-8
4	Group Select Knob Push	When set to MUTE, pushing the Group Select Knob mutes the Loudspeakers and/or Balance Line Level Outputs
5	Group Select Knob Rotate	Allows the Group Select Knob to select MIX Groups, Adjust Output Volume or to have no function.
6	Gain Bar Display	Allows Channel Gain Bars to be displayed on the front panel
7	Local Config	Enables/Disables configuration from the front panel of the MPA1-MIX-SDI
8	Screen Brightness	Sets the Brightness Level of the front panel display



9	Line Output Level	Sets the Output Level of the Balanced Line Level Outputs on the MPA1-MIX-8
10	Line Output Mode	Determines behaviour of Balanced Line Level Outputs upon insertion of Headphones.
11	Line Output Gain	Allows the Balanced Line Level Outputs on the MPA1 MIX 8 to provide a fixed or variable Output
12	Loudspeaker Mode	Determines the behaviour of Internal Loudspeakers upon insertion of Headphones



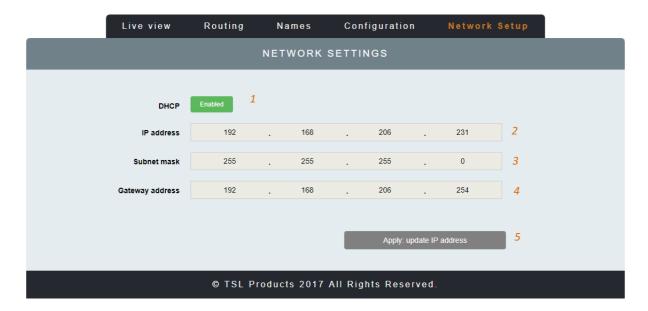
Clicking on the GPI Tab of the MPA1-MIX-8 Webpage displays the following:



Element	Function	Notes
1	GPI Status/Test Switch	Green when GPI is active, Grey when inactive.
		Enables GPI In MODE to be tested.
2	Mode	Drop Down Menu enabling desired GPI action
		to be selected
3	Parameter 1	Allows first parameter of GPI Mode to be set
		where applicable.
4	Parameter 2	Allows second parameter of GPI Mode to be
		set where applicable



Clicking on the NETWORK SETTINGS Tab of the MPA1-MIX-8 Webpage displays the following:



Element	Function	Notes
1	DHCP	Enables/Disables DHCP Mode
2	IP Address	Displays current IP Address and allows new IP Address to be entered.
3	Subnet Mask	Displays current Subnet Mask and allows new Subnet Mask to be entered.
4	Gateway Address	Displays current Gateway Address and allows new Gateway Address to be entered.
5	Apply IP Address	Button to apply IP, Subnet and Gateway addresses to the MPA1-MIX-SDI



Operation

The MPA1 Range has been designed to provide quick and easy selection of any desired audio source in an intuitive manner that requires little in the way of training.

One of the key benefits of the MPA1 is the ability to personalise or tailor its configuration and behaviour to suit a specific workflow, application or environment If the behaviour or configuration of your MPA1 is not as expected or required, please check the configuration and settings made in the webpage belonging to your MPA1.

All these settings can be made via the webpage of your MPA1 (see appropriate chapter earlier in this manual).

The following chapters present an operational overview of each MPA1 variant.



MPA1-SOLO-IP Operation

The front panel of the MPA1-SOLO-IP is equipped with four rotary controllers as follows: PROGRAM



Encoder	Function	Notes
1	Headphone Volume	Rotate to adjust Headphone level as required.
		PUSH to MUTE/UNMUTE currently selected audio
		source.
2	Output Volume	Rotate to adjust the Audio Level of the Internal
		Loudspeakers and/or Balanced Analogue Audio
		Outputs.
		PUSH to MUTE/UNMUTE Internal Loudspeakers
		and/or Balanced Analogue Audio Outputs.
		NOTE: The exact behaviour of this control can be
		modified using the MPA1-SOLO-IP Webpage, see
		Settings 2, 4 and 5 on Page 30 of this manual for
		further information.
3	Select/Menu	Rotate to Scroll through SDI Embedded Audio
		Channels and/or SFP1, SFP2, AES and Analogue Audio Channels.
		Audio Channels.
		PUSH to switch between Stereo and Mono Audio
		Monitoring.
		NOTE: Audio Sources available for selection are
		determined by the settings found in section 1 of
		the MPA1-SOLO-SDI Webpage. See Page 26 of this
		manual for further information.
		The Select Menu Encoder is also used to access
		the Settings Menu of the MPA-SOLO-IP. Further
		information can be found in the Initial Setup
		chapter found on Page 26 of this manual.
4	Balance/Pan and Display Mode	Provides Balance Control of Stereo Audio Sources
		and Pan Control of Mono Audio Sources. Setting
		affects Headphone, Internal Loudspeakers and
		Balanced Analogue Audio Outputs. PUSH to
		Switch between Multiple Audio Meter, Dual Audio Meter with Phase Metering and Video
		Display modes.
	İ	Display modes.



MPA1-SOLO-SDI Operation

The front panel of the MPA1-SOLO-SDI is equipped with four rotary controllers as follows: PROGRAM



Encoder	Function	Notes
1	Headphone Volume	Rotate to adjust Headphone level as required.
		PUSH to MUTE/UNMUTE currently selected audio
		source.
2	Output Volume	Rotate to adjust the Audio Level of the Internal
		Loudspeakers and/or Balanced Analogue Audio
		Outputs.
		PUSH to MUTE/UNMUTE Internal Loudspeakers
		and/or Balanced Analogue Audio Outputs.
		NOTE: The exact behaviour of this control can be
		modified using the MPA1-SOLO-SDI Webpage,
		see Settings 2, 4 and 5 on Page 35 of this manual
		for further information.
3	Select/Menu	Rotate to Scroll through SDI Embedded Audio
		Channels and/or AES and Analogue Audio
		Channels.
		PUSH to switch between Stereo and Mono Audio
		Monitoring.
		NOTE: Audio Sources available for selection are
		determined by the settings found in section 1 of
		the MPA1-SOLO-SDI Webpage. See Page 26 of this
		manual for further information.
		The Select Menu Encoder is also used to access
		the Settings Menu of the MPA-SOLO-SDI. Further
		information can be found in the Initial Setup
		chapter found on Page 26 of this manual.
4	Balance/Pan and Display Mode	Provides Balance Control of Stereo Audio Sources
		and Pan Control of Mono Audio Sources. Setting
		affects Headphone, Internal Loudspeakers and
		Balanced Analogue Audio Outputs. PUSH to
		Switch between Multiple Audio Meter, Dual Audio Meter with Phase Metering and Video
		Display modes.
ii		טואומץ וווטעבא.



MPA1-SOLO-MADI Operation

The front panel of the MPA1-SOLO-MADI is equipped with four rotary controllers as follows:



Encoder	Function	Notes
1	Headphone Volume	Rotate to adjust Headphone level as required. PUSH to MUTE/UNMUTE currently selected audio source.
2	Output Volume	Rotate to adjust the Audio Level of the Internal Loudspeakers and/or Balanced Analogue Audio Outputs.
		PUSH to MUTE/UNMUTE Internal Loudspeakers and/or Balanced Analogue Audio Outputs.
		NOTE: The exact behaviour of this control can be modified using the MPA1-SOLO-MADI Webpage, see Settings 2,4 and 5 on Page 40 of this manual for further information.
3	Select/Menu	Rotate to Scroll through MADI Audio Channels and/or Analogue Audio Channels.
		PUSH to switch between Stereo and Mono Audio Monitoring.
		The Select Menu Encoder is also used to access the Settings Menu of the MPA-SOLO-MADI.
		Further information can be found in the Initial Setup chapter found on Page 26 of this manual.
4	Balance/Pan and Display Mode	Provides Balance Control of Stereo Audio Sources and Pan Control of Mono Audio Sources. Setting affects Headphone, Internal Loudspeakers and Balanced Analogue Audio Outputs. PUSH to toggle between Multiple Audio Meter and Dual Audio Meter with Phase Metering modes.



MPA1-SOLO-DANTE Operation

The front panel of the MPA1-SOLO-DANTE is equipped with four rotary controllers as follows:



Encoder	Function	Notes
1	Headphone Volume	Rotate to adjust Headphone level as required. PUSH to MUTE/UNMUTE currently selected audio source.
2	Output Volume	Rotate to adjust the Audio Level of the Internal Loudspeakers and/or Balanced Analogue Audio Outputs.
		PUSH to MUTE/UNMUTE Internal Loudspeakers and/or Balanced Analogue Audio Outputs.
		NOTE: The exact behaviour of this control can be modified using the MPA1-SOLO-DANTE Webpage, see Settings 2,4 and 5 on Page 45 of this manual for further information.
3	Select/Menu	Rotate to Scroll through DANTE and/or MADI Audio Channels.
		PUSH to switch between Stereo and Mono Audio Monitoring.
		The Select Menu Encoder is also used to access the Settings Menu of the MPA-SOLO-DANTE.
		Further information can be found in the Initial Setup chapter found on Page 26 of this manual.
4	Balance/Pan and Display Mode	Provides Balance Control of Stereo Audio Sources and Pan Control of Mono Audio Sources. Setting affects Headphone, Internal Loudspeakers and Balanced Analogue Audio Outputs. PUSH to toggle between Multiple Audio Meter and Dual Audio Meter with Phase Metering modes.



MPA1-SOLO-8 Operation

The front panel of the MPA1-SOLO-8 is equipped with four rotary controllers as follows:



Encoder	Function	Notes
1	Headphone Volume	Rotate to adjust Headphone level as required. PUSH to MUTE/UNMUTE currently selected audio source.
2	Output Volume	Rotate to adjust the Audio Level of the Internal Loudspeakers and/or Balanced Analogue Audio Outputs.
		PUSH to MUTE/UNMUTE Internal Loudspeakers and/or Balanced Analogue Audio Outputs.
		NOTE: The exact behaviour of this control can be modified using the MPA1-SOLO-8 Webpage, see Settings 2,4 and 5 on Page 50 of this manual for further information.
3	Select/Menu	Rotate to Scroll through AES and Analogue Audio Channels.
		PUSH to switch between Stereo and Mono Audio Monitoring.
		The Select Menu Encoder is also used to access the Settings Menu of the MPA-SOLO-8. Further information can be found in the Initial Setup chapter found on Page 26 of this manual.
4	Balance/Pan and Display Mode	Provides Balance Control of Stereo Audio Sources and Pan Control of Mono Audio Sources. Setting affects Headphone, Internal Loudspeakers and Balanced Analogue Audio Outputs. PUSH to toggle between Multiple Audio Meter and Dual Audio Meter with Phase Metering modes.



MPA1-MIX-SDI Operation

The front panel of the MPA1-MIX-SDI is equipped with ten rotary controllers as follows:



Encoder	Function	Notes
1-8	Audio Level	Rotate to adjust relative contribution of Sources 1-8 to Stereo Monitoring Mix.
		NOTE: Sources available are determined by the currently selected Mix Bank (A-P) and the contributing audio channels for each Mix Bank as set in the Routing Tab of the MPA-MIX-SDI. See Page 54 of this manual for further information.
		PUSH to MUTE/UNMUTE contribution of Sources 1-8 to Stereo Mix.
		NOTE: PUSH to MUTE/UNMUTE functionality can be disabled by Setting 1 of the MPA-MIX-SDI Webpage, see Page 57 of the manual for further information.
		PUSH and ROTATE to adjust Balance of selected source <u>or</u> to map alternate audio source to encoder.
		NOTE: PUSH and ROTATE functionality is determined by Setting 2 on the MPA-MIX-SDI Webpage, see Page 57 of the manual for further information
		PUSH and HOLD to enable SOLO Monitoring of selected source.
		NOTE: PUSH and HOLD to enable SOLO Monitoring can be disabled using Setting 3 of the MPA-MIX-SDI Webpage, see Page 57 of the manual for further information.
9	Headphone Volume	Rotate to adjust Headphone level as required. PUSH to MUTE/UNMUTE entire Stereo Monitoring Mix from the Headphone Output.
10	Select/Menu	Rotate to Scroll through Mix Banks A-P <u>or</u> to adjust Level of Stereo Monitoring Mix.
		NOTE: The behaviour of the Select/Menu encoder is determined by determined by Settings 4 and 5 on the MPA-MIX-SDI Webpage, see Page 49 of the manual for further information
		PUSH to MUTE/UNMUTE Internal Loudspeakers and Balanced Analogue Audio Outputs.



The Select Menu Encoder is also used to access the Settings Menu
of the MPA-MIX-SDI. Further information can be found in the Initial
Setup chapter found on Page 26 of this manual.



MPA1-MIX-MADI Operation

The front panel of the MPA1-MIX-MADI is equipped with ten rotary controllers as follows:



Encoder	Function	Notes
1-8	Audio Level	Rotate to adjust relative contribution of Sources 1-8 to Stereo Monitoring Mix.
		NOTE: Sources available are determined by the currently selected Mix Bank (A-P) and the contributing audio channels for each Mix Bank as set in the Routing Tab of the MPA-MIX-MADI. See Page 62 of this manual for further information.
		PUSH to MUTE/UNMUTE contribution of Sources 1-8 to Stereo Mix.
		NOTE: PUSH to MUTE/UNMUTE functionality can be disabled by Setting 1 of the MPA-MIX-MADI Webpage, see Page 65 of the manual for further information.
		PUSH and ROTATE to adjust Balance of selected source <u>or</u> to map alternate audio source to encoder.
		NOTE: PUSH and ROTATE functionality is determined by Setting 2 on the MPA-MIX-MADI Webpage, see Page 65 of the manual for further information
		PUSH and HOLD to enable SOLO Monitoring of selected source.
		NOTE: PUSH and HOLD to enable SOLO Monitoring can be disabled using Setting 3 of the MPA-MIX-MADI Webpage, see Page 35 of the manual for further information.
9	Headphone Volume	Rotate to adjust Headphone level as required. PUSH to MUTE/UNMUTE entire Stereo Monitoring Mix from the Headphone Output.
10	Select/Menu	Rotate to Scroll through Mix Banks A-P <u>or</u> to adjust Level of Stereo Monitoring Mix.
		NOTE: The behaviour of the Select/Menu encoder is determined by
		PUSH to MUTE/UNMUTE Internal Loudspeakers and Balanced Analogue Audio Outputs.
		The Select Menu Encoder is also used to access the Settings Menu of the MPA-MIX-MADI. Further information can be found in the Initial Setup chapter found on Page 26 of this manual.



MPA1-MIX-DANTE Operation

The front panel of the MPA1-MIX-DANTE is equipped with ten rotary controllers as follows:



Encoder	Function	Notes
1-8	Audio Level	Rotate to adjust relative contribution of Sources 1-8 to Stereo Monitoring Mix.
		NOTE: Sources available are determined by the currently selected Mix Bank (A-P) and the contributing audio channels for each Mix Bank as set in the Routing Tab of the MPA-MIX-SDI. See Page 69 of this manual for further information.
		PUSH to MUTE/UNMUTE contribution of Sources 1-8 to Stereo Mix.
		NOTE: PUSH to MUTE/UNMUTE functionality can be disabled by Setting 1 of the MPA-MIX-SDI Webpage, see Page 73 of the manual for further information.
		PUSH and ROTATE to adjust Balance of selected source <u>or</u> to map alternate audio source to encoder.
		NOTE: PUSH and ROTATE functionality is determined by Setting 2 on the MPA-MIX-SDI Webpage, see Page 73 of the manual for further information
		PUSH and HOLD to enable SOLO Monitoring of selected source.
		NOTE: PUSH and HOLD to enable SOLO Monitoring can be disabled using Setting 3 of the MPA-MIX-DANTE Webpage, see Page 65 of the manual for further information.
9	Headphone Volume	Rotate to adjust Headphone level as required. PUSH to MUTE/UNMUTE entire Stereo Monitoring Mix from the Headphone Output.
10	Select/Menu	Rotate to Scroll through Mix Banks A-P <u>or</u> to adjust Level of Stereo Monitoring Mix.
		NOTE: The behaviour of the Select/Menu encoder is determined by
		PUSH to MUTE/UNMUTE Internal Loudspeakers and Balanced Analogue Audio Outputs.
		The Select Menu Encoder is also used to access the Settings Menu of the MPA-MIX-SDI. Further information can be found in the Initial Setup chapter found on Page 26 of this manual.



MPA1-MIX-8 Operation

The front panel of the MPA1-MIX-MADI is equipped with ten rotary controllers as follows:



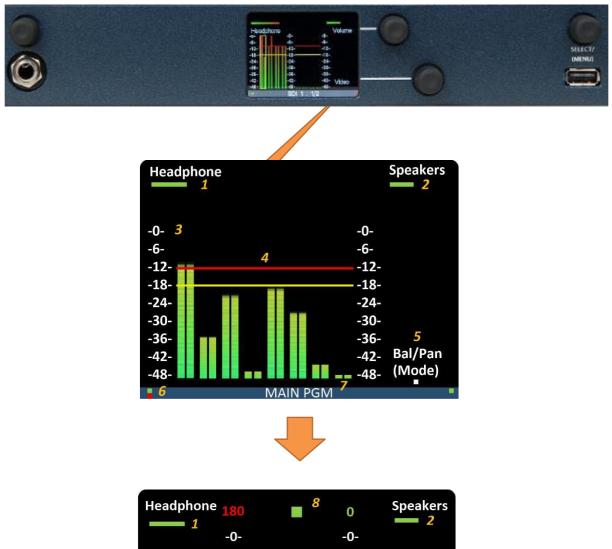
Encoder	Function	Notes
1-8	Audio Level	Rotate to adjust relative contribution of Sources 1-8 to Stereo Monitoring Mix.
		NOTE: Sources available are determined by the currently selected Mix Bank (A-P) and the contributing audio channels for each Mix Bank as set in the Routing Tab of the MPA1-MIX-8. See Page 69 of this manual for further information.
		PUSH to MUTE/UNMUTE contribution of Sources 1-8 to Stereo Mix.
		NOTE: PUSH to MUTE/UNMUTE functionality can be disabled by Setting 1 of the MPA-MIX-8 Webpage, see Page 80 of the manual for further information.
		PUSH and ROTATE to adjust Balance of selected source <u>or</u> to map alternate audio source to encoder.
		NOTE: PUSH and ROTATE functionality is determined by Setting 2 on the MPA-MIX-8 Webpage, see Page 80 of the manual for further information
		PUSH and HOLD to enable SOLO Monitoring of selected source.
		NOTE: PUSH and HOLD to enable SOLO Monitoring can be disabled using Setting 3 of the MPA-MIX-8 Webpage, see Page 72 of the manual for further information.
9	Headphone Volume	Rotate to adjust Headphone level as required. PUSH to MUTE/UNMUTE entire Stereo Monitoring Mix from the Headphone Output.
10	Select/Menu	Rotate to Scroll through Mix Banks A-P <u>or</u> to adjust Level of Stereo Monitoring Mix.
		NOTE: The behaviour of the Select/Menu encoder is determined by
		PUSH to MUTE/UNMUTE Internal Loudspeakers and Balanced Analogue Audio Outputs.

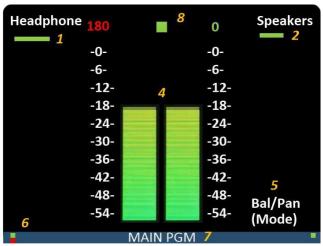


	The Select Menu Encoder is also used to access the Settings Menu
	of the MPA-MIX-8. Further information can be found in the Initial
	Setup chapter found on Page 26 of this manual.



MPA1-SOLO-IP Front Panel Display





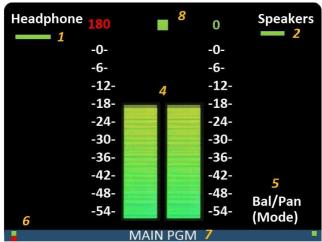


Display	Function	Notes
1	Headphone Level	Display showing level of Headphone Output
2	Speakers	Display showing level of Internal Loudspeaker and Balanced Line Level Output output.
3	Audio Meter Scale	Audio Meter Scale in dBFS
4	Audio Level Display	See settings 7 and 8 on Page 30 of this manual for further information
		on setting Warning and Alarm Thresholds.
5	Balance/Pan Display	The relative contribution to the Left and Right channels of the Stereo
		Monitoring Mix is identified by the position of the Balance/Pan
6	Status Indicators	Status indicators showing presence of valid input sources
7	Channel Name	See Page 29 of this manual for further information on how to set
		Channel Names.
8	Phase Meter	Audio Phase Meter for currently selected audio pair



MPA1-SOLO-SDI Front Panel Display







Display	Function	Notes	
1	Headphone Level	Display showing level of Headphone Output	
2	Speakers	Display showing level of Internal Loudspeaker and Balanced Line Level Output.	
3	Audio Meter Scale	Audio Meter Scale in dBFS	
4	Audio Level Display	See settings 7 and 8 on Page 35 of this manual for further information	
		on setting Warning and Alarm Thresholds.	
5	Balance/Pan Display	The relative contribution to the Left and Right channels of the Stereo	
		Monitoring Mix is identified by the position of the Balance/Pan	
6	Status Indicators	Status indicators showing presence of valid input sources	
7	Channel Name	See Page 34 of this manual for further information on how to set	
		Channel Names.	
8	Phase Meter	Audio Phase Meter for currently selected audio pair	



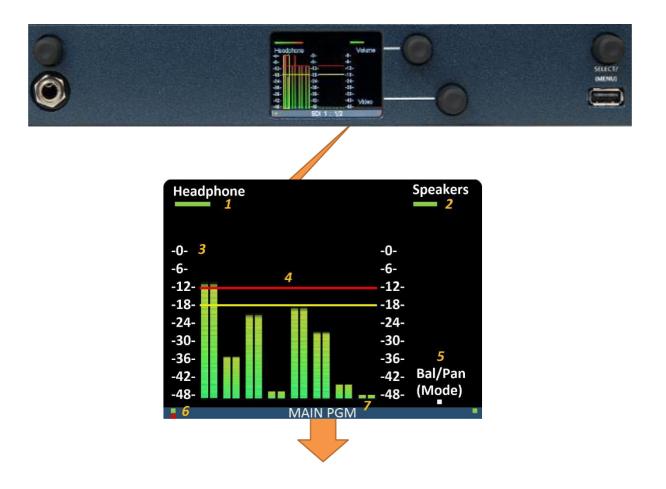
MPA1-MIX-SDI Front Panel Display

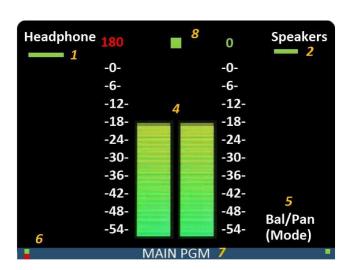


Display	Function	Notes
1	Channel Label	Label displaying Channel friendly name.
		NOTE: Friendly names can be entered in the Channel Names section displayed within the Names Tab of the MPA1-MIX-SDI Webpage. See Page 55 of this manual for further information.
2	Audio Level Meters	Displays Audio Level of associated Source Channel
3	Gain Bar Display	Level of Channel contribution to Stereo Monitoring Mix.
		NOTE: Inclusion of the Gain Bar Display is determined by setting 6 in the Configuration Tab of the MPA-MIX-SDI Webpage. See Page 57 of this manual for further information.
4	Balance/Pan Display	The relative contribution to the Left and Right channels of the Stereo Monitoring Mix is identified by the position of the Balance/Pan
5	Headphone and Speakers Level Displays	Display of current Headphone and Loudspeaker Output Level settings (0 Min – 100 Max).
6	Mix Bank Name	Label displaying friendly name of currently selected Mix Bank. NOTE: Friendly names can be entered in the Group Names section displayed within the Names Tab of the MPA1-MIX-SDI Webpage. See Page 55 of this manual for further information



MPA1-SOLO-MADI Front Panel Display





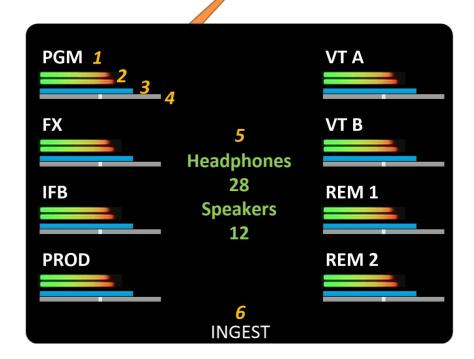


Display	Function	Notes
1	Headphone Level	Display showing level of Headphone Output
2	Speakers	Display showing level of Internal Loudspeaker and Balanced Line Level Output .
3	Audio Meter Scale	Audio Meter Scale in dBFS
4	Audio Level Display	See settings 8 and 9 on Page 40 of this manual for further information on setting Warning and Alarm Thresholds.
5	Balance/Pan Display	The relative contribution to the Left and Right channels of the Stereo Monitoring Mix is identified by the position of the Balance/Pan
6	Status Indicators	Status indicators showing presence of valid input sources
7	Channel Name	See Page 39 of this manual for further information on how to set Channel Names.
8	Phase Meter	Audio Phase Meter for currently selected audio pair



MPA1-MIX-MADI Front Panel Display

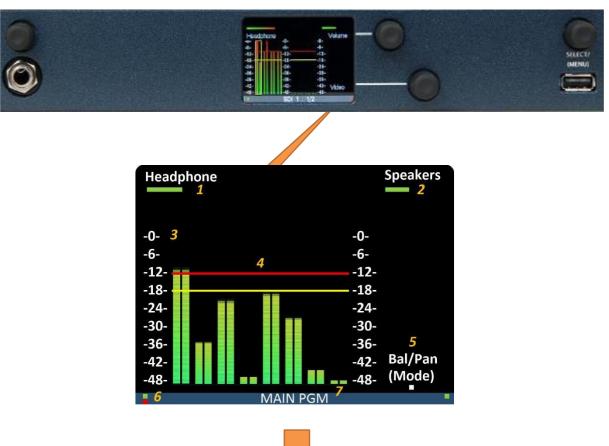




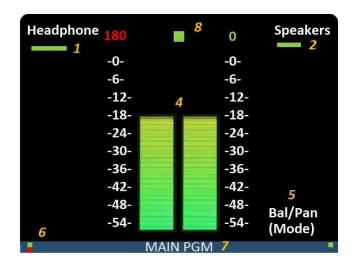
Display	Function	Notes
1	Channel Label	Label displaying Channel friendly name.
		NOTE: Friendly names can be entered in the Channel Names section displayed within the Names Tab of the MPA1-MIX-MADI Webpage. See Page 63 of this manual for further information.
2	Audio Level Meters	Displays Audio Level of associated Source Channel
3	Gain Bar Display	Level of Channel contribution to Stereo Monitoring Mix.
		NOTE: Inclusion of the Gain Bar Display is determined by setting 6 in the Configuration Tab of the MPA-MIX-MADI Webpage. See Page 65 of this manual for further information.
4	Balance/Pan Display	The relative contribution to the Left and Right channels of the Stereo Monitoring Mix is identified by the position of the Balance/Pan
5	Headphone and Speakers Level Displays	Display of current Headphone and Loudspeaker Output Level settings (0 Min – 100 Max).
6	Mix Bank Name	Label displaying friendly name of currently selected Mix Bank. NOTE: Friendly names can be entered in the Group Names section displayed within the Names Tab of the MPA1-MIX-MADI Webpage. See Page 63 of this manual for further information



MPA1-SOLO-DANTE Front Panel Display







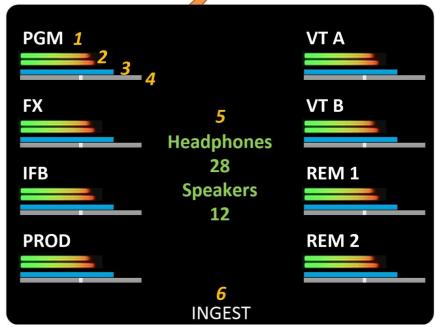


Display	Function	Notes
1	Headphone Level	Display showing level of Headphone Output
2	Speakers	Display showing level of Internal Loudspeaker and Balanced Line Level Output.
3	Audio Meter Scale	Audio Meter Scale in dBFS
4	Audio Level Display	See settings 8 and 9 on Page 45 of this manual for further information on setting Warning and Alarm Thresholds.
5	Balance/Pan Display	The relative contribution to the Left and Right channels of the Stereo Monitoring Mix is identified by the position of the Balance/Pan
6	Status Indicators	Status indicators showing presence of valid input sources
7	Channel Name	See Page 44 of this manual for further information on how to set Channel Names.
8	Phase Meter	Audio Phase Meter for currently selected audio pair



MPA1-MIX-DANTE Front Panel Display





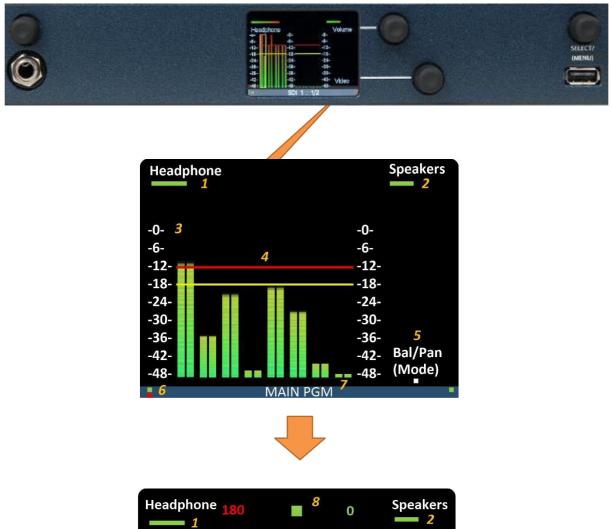
Display	Function	Notes
1	Channel Label	Label displaying Channel friendly name.
		NOTE: Friendly names for MADI and DANTE sources can be entered in the Channel Names section displayed within the Names Tab of the MPA1-MIX-DANTE Webpage. Friendly names for DANTE sources can also be derived from the DANTE Network when set to AUTO. See the Channels Name section of the MPA1-MIX-DANTE
2	Audio Level Meters	Webpage. See Page 71 of this manual for further information. Displays Audio Level of associated Source Channel
3	Gain Bar Display	Level of Channel contribution to Stereo Monitoring Mix.
		NOTE: Inclusion of the Gain Bar Display is determined by setting 6 in the Configuration Tab of the MPA-MIX-DANTE Webpage. See Page 73 of this manual for further information.
4	Balance/Pan Display	The relative contribution to the Left and Right channels of the Stereo Monitoring Mix is identified by the position of the Balance/Pan
5	Headphone and Speakers Level Display	Display of current Headphone and Loudspeaker Output Level settings (0 Min – 100 Max).

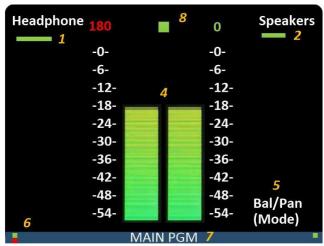


6	Mix Bank Name	Label displaying friendly name of currently selected Mix Bank.	
		NOTE: Friendly names can be entered in the Group Names	
		section displayed within the Names Tab of the MPA1-MIX-	
		DANTE Webpage.	
		See Page 71 of this manual for further information	



MPA1-SOLO-8 Front Panel Display





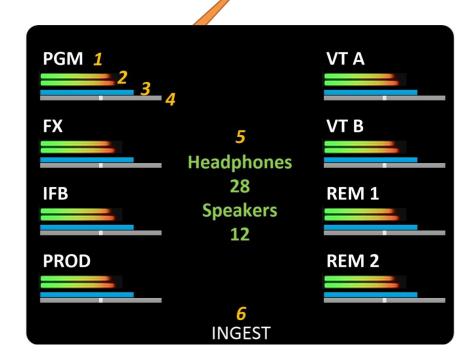


Display	Function	Notes
1	Headphone Level	Display showing level of Headphone Output
2	Speakers	Display showing level of Internal Loudspeaker and Balanced Line Level Output output.
3	Audio Meter Scale	Audio Meter Scale in dBFS
4	Audio Level Display	See settings 7 and 8 on Page 50 of this manual for further information
		on setting Warning and Alarm Thresholds.
5	Balance/Pan Display	The relative contribution to the Left and Right channels of the Stereo
		Monitoring Mix is identified by the position of the Balance/Pan
6	Status Indicators	Status indicators showing presence of valid input sources
7	Channel Name	See Page 49 of this manual for further information on how to set
		Channel Names.
8	Phase Meter	Audio Phase Meter for currently selected audio pair



MPA1-MIX-8 Front Panel Display





Display	Function	Notes
1	Channel Label	Label displaying Channel friendly name.
		NOTE: Friendly names can be entered in the Channel Names section displayed within the Names Tab of the MPA1-MIX-8 Webpage. See Page 78 of this manual for further information.
2	Audio Level Meters	Displays Audio Level of associated Source Channel
3	Gain Bar Display	Level of Channel contribution to Stereo Monitoring Mix.
		NOTE: Inclusion of the Gain Bar Display is determined by setting 6 in the Configuration Tab of the MPA-MIX-8 Webpage. See Page 80 of this manual for further information.
4	Balance/Pan Display	The relative contribution to the Left and Right channels of the Stereo Monitoring Mix is identified by the position of the Balance/Pan
5	Headphone and Speakers Level Displays	Display of current Headphone and Loudspeaker Output Level settings (0 Min – 100 Max).
6	Mix Bank Name	Label displaying friendly name of currently selected Mix Bank. NOTE: Friendly names can be entered in the Group Names section displayed within the Names Tab of the MPA1-MIX-MADI Webpage. See Page 78 of this manual for further information

