

# MPA1 Audio Monitoring Range Installation and Operation Manual Version 1.7



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#### Version History

Issue	Date	Change Details
0.1	01/02/18	Preliminary guide
1.0	05/10/18	Initial release
1.1	25/1/19	Added MPA1 SOLO 8 and MPA1 MIX 8
1.2	1/10/19	Added Analogue, AES and GPIO Pinout Information
1.3	22/2/21	Added MPA1-SOLO-IP
1.4	16/11/21	Safety information added
1.5	15/11/22	Added -1 variants
1.6	16/12/22	Added MPA1-MIX-NET
1.7	20/07/23	Added MPA1-MIX-NET-R

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### Introduction

The MPA1 range of audio monitors provide high-quality confidence monitoring in a compact 1RU design. At just 100 mm deep and less than 4 kg, MPA1 audio monitors are ideally suited for environments where space and weight are 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-MIX-NET-V-1		MPA1-MIX-NET-V-R
MPA1-SOLO-SDI	MPA1-MIX-SDI	MPA1-SOLO-SDI-1	MPA1-MIX-SDI-V-1
MPA1-SOLO-MADI	MPA1-MIX-MADI	MPA1-SOLO-MADI-1	MPA1-MIX-MADI-V-1
MPA1-SOLO-DANTE	MPA1-MIX-DANTE	MPA1-SOLO-DANTE-1	MPA1-MIX-DANTE-V-1
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 Layouts

#### Front Panel for MPA1-SOLO variants



#### "V" Front Panel Layout for MPA1-MIX variants



#### Legacy Front Panel Layouts for MPA1-MIX (non-V variants)



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# Safety Information



The symbol shown on the rear panel of the unit indicates that it is only suitable for use at altitudes not exceeding 2000m.

### Installation

Unless otherwise stated TSL MPA1 units may be installed at any angle or position within an operating temperature of 5°C - 40°C.

The TSL MPA1 range conforms to the following legislation:

EMC Directive 2014/30/EU Low Voltage Directive (LVD) 2014/35/EU



### MPA1-SOLO-IP Installation

#### 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 2x SFP Ports which can be used as follows:

Function	Notes
Reception of 3G/HD/SD-SDI signals using MultiMode Optical Fiber	Requires optional multi-mode (850nm) 3G/HD/SD-SDI SFP receiver modules
Reception of 3G/HD/SD-SDI signals using SingleMode 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 <u>MN SET</u> from Embrionix.



### Identifying the Factory IP Address of an Embrionix SFP

The optional Embrionix SFP modules come with an IP address predefined by the manufacturer, which is unique for each device. The IP address of an SFP can be calculated based on its MAC address.

To calculate the predefined IP address:

1. Note the MAC address of the SFP module.



- 2. Using a **hexadecimal to decimal calculator**, convert the last three octets into their decimal value. Please note that the first three octets are the same for all Embrionix SFPs.
- 3. The resulting three octets provide the configured IP address of the module. The first octet is always 10.
- e.g.: A device with the MAC address of *40:A3:6B:A0:3E:50* has the following IP address:

#### 10.160.62.80

The IP address can be changed using MN SET once accessed.



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## MPA1-SOLO-SDI / MPA1-SOLO-SDI-1 Installation

#### MPA1-SOLO-SDI



#### MPA1-SOLO-SDI-1

100-240V AC - 50/60Hz 30W	AES-3 In	MGMT	HDMI	Analogue In L R	SDI In	Analogue Out L R
(1)	$\odot$			$\odot$	$\odot$	<ul><li>⊙ ⊙</li></ul>

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



# MPA1-SOLO-SDI / MPA1-SOLO-SDI-1 Functional Schematic



NOTE: Features highlighted in blue are not available on the MPA1-SOLO-SDI-1.



## MPA1-MIX-SDI / MPA1-MIX-SDI-V-1 Installation

#### MPA1-MIX-SDI



#### MPA1-MIX-SDI-V-1

100-240V AC + 50/60Hz 30W	AES-3 In	MGMT	HOM	Analogue In L R	SDI In	Analogue Out L R
( <sup>1</sup> )	$\odot$			0	$\odot$	· · · · · · · · · · · · · · · · · · ·

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



**Products** 



**NOTE:** Features highlighted in blue are not available on the MPA1-MIX-SDI-1.

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# MPA1-SOLO-MADI / MPA1-SOLO-MADI-1 Installation

#### MPA1-SOLO-MADI



#### MPA1-SOLO-MADI-1

100-240V AC - 50/60Hz 30W	MGMT MADI Optical	Analogue Out L R Analogue Inputs 1-8
	윰 📼	••. 🕲 🕲

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



**NOTE:** Features highlighted in blue are not available on the MPA1-SOLO-MADI-1.



**Products** 

#### MPA1-MIX-MADI



#### MPA1-MIX-MADI-V-1

100-240V AC - 50/60Hz 30W	MGMT	MADI Optical	Analogue Out L R
	몲		Analogue Inputs 1-8

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



**NOTE:** Features highlighted in blue are not available on the MPA1-MIX-MADI-V-1.



# MPA1-SOLO-DANTE / MPA1-SOLO-DANTE-1 Installation

#### MPA1-SOLO-DANTE



#### MPA1-SOLO-DANTE-1

100-240V AC - 50/60Hz	MGMT MADI	Analogue Out
30W	Optical	Link/Act 1 GLR
( <sup>1</sup> )	r e	

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



# MPA1-SOLO-DANTE / MPA1-SOLO-DANTE-1 Functional Schematic



**NOTE:** Features highlighted in blue are not available on the MPA1-SOLO-DANTE-1.



# MPA1-MIX-DANTE / MPA1-MIX-DANTE-V-1 Installation

#### MPA1-MIX-DANTE



#### MPA1-MIX-DANTE-V-1

100-240V AC - 50/60Hz	MGMT MADI	Analogue Out
30W	Optical	Link/Act 1 G L R
	r iii	

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



**Products** 



**NOTE:** Features highlighted in blue are not available on the MPA1-MIX-DANTE-V-1.



**Products** 

#### MPA1-MIX-NET-V-1



#### MPA1-MIX-NET-V-R

2014/	MADI	AOIF	Analogue Out
	SFP		

Product	Inputs	Outputs	Other
MPA1-MIX-NET-V-1	1 x 1Gig/E Ethernet Port	2 x Analogue Outputs	1 x 1Gig/E Ethernet
	(AoIP / ST 2110-30 /	(Balanced)	Port (Management and
	AES67 / Ravenna)		Control)
		1 x Headphone	1 x USB Port (Software
	1 x MADI (SFP cage for	Output	Updates and
	optional SFP module)		Configuration)
			1 x IEC Power Inlet
MPA1-MIX-NET-V-R	2 x 1Gig/E Ethernet Port	2 x Analogue Outputs	1 x 1Gig/E Ethernet
	(AoIP / ST 2110-30 /	(Balanced)	Port (Management and
	AES67 / Ravenna		Control)
	with ST 2022-7 compliant	1 x Headphone	1 x USB Port (Software
	redundancy)	Output	Updates and
			Configuration)
	1 x MADI (SFP cage for		1 x IEC Power Inlet
	optional SFP module)		

The MPA1-MIX-NET is equipped with a Merging ZMAN card which provides Audio-over-IP connectivity. It supports IP audio input streams which are ST 2110-30, AES67 or Ravenna formats.

The MPA1-MIX-NET connects to the AoIP network via the dedicated AoIP network port(s)<sup>1</sup> located on the rear of the unit. These interfaces provide both media traffic and in-band AoIP control through the in-built ZMAN web interface, Merging REST API or NMOS IS-04/05.

The MPA1 control and configuration webpage is accessed through the separate Control network port, further information can be found in the <u>Initial Setup</u> chapter of this manual.

### Identifying the IP address of the ZMAN card

The ZMAN cards are shipped with DHCP enabled so will obtain an IP address automatically if a DHCP server is present on the network. If no DHCP server is present, the device will use *zeroconf* to auto assign a link-local IP address. Once the AoIP network port is connected to the media network, the device can be accessed from a web browser by typing in the IP address of the ZMAN card into the address bar.

<sup>&</sup>lt;sup>1</sup> The MPA1-MIX-NET-V-1 has a single AoIP port, whereas the MPA1-MIX-NET-V-R is equipped with a dual port.



When configuring the **MPA1-MIX-NET-V-R**, make sure that your primary AoIP network is connected first to the *AoIP 1* port. Before connecting the secondary network to the other port, make sure that both interfaces are configured properly. Otherwise, the unit might be inaccessible upon the initial setup.

<u>ANEMAN</u>, a freely available application from Merging, can be used to discover and note the IP addresses of any MPA1-MIX-NET devices connected to the local network.

ANEMAN can also be used to route audio streams to the MPA1-MIX-NET from compatible devices. Note that Aneman shows the IP address of the primary network port. (MPA1-MIX-NET-V-R only.)

EMAN View Settings Debug	Neto						- 5	×
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	Devices							
	Name		Туре	IPV4	Version	Company	Product	Serial
	switchf80018			192.168.200.21	0	CISCO	Switch	switchf8001
	switch9e7387			192.168.200.22	0	CISCO	Switch	switch9e73
	MPA1-MIX-NET_1	111335		192.168.205.173	1.4.3b52393	TSL Products	MPA1-MIX-NET	111335
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	MPA1-MIX-NET_1	11333		192.168.205.177	1.4.3b52393	TSL Products	MPA1-MIX-NET	111333
	MPA1-MIX-NET_1	111332		192.168.205.14	1.4.3b52393	TSL Products	MPA1-MIX-NET	111332
	MPA1-MIX-NET_1	111331		192.168.205.39	1.4.3b52393	TSL Products	MPA1-MIX-NET	111331
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947387	1924 (1)	SCO Switch	switch9e7387					
-MIX-NET_111385	192106205173 143052993 15	R Products MPA1-MIX-NET	111835					
-MIX-NET_111334	192 168 205 174 1 4 3b52193 TS	E Products MWG-MEX-NET	111334					
	102 148 205 177 1 4 8×52803 TS	a Products MPAS-MIX-NET	111202					
1-M06-NET_111333								

### ZMAN Advanced Configuration Webpage

The Advanced Configuration webpage of the ZMAN card can be used to configure all ZMAN parameters, including the **input streams**, **PTP** and **NMOS** settings as well as saving and restoring **configuration files**.

The webpage can be accessed by typing in the IP address followed by the following string to the address bar of a web browser:



For full documentation covering the Advanced Configuration webpage please refer to Merging's <u>ZMAN</u> <u>documentation</u>. This can also be accessed by clicking on the help icon next to the unit selection dropdown in the top left-hand corner of the webpage:



### Mapping input channels of the ZMAN card

The MPA1-MIX-NET features 64 channels of inputs for Audio-over-IP sources. These channels are labelled "AoIP x" on the MPA1-MIX-NET front panel display and web interface.

The numbers on both the ZMAN card and the MPA1-MIX-NET are correlated to each other, i.e., connecting a channel from an incoming stream to *TSL MPA1-MIX-NET-V-1 I/O Channel 1* as shown in the ZMAN routing matrix will route the signal to the *AoIP 01* input of the MPA1-MIX-NET.

However, as with other MPA1-MIX products, it is possible to re-route each input channel to different mix banks as required. For further information please see the **Routing** section of this manual.

Units 1&2, First Avenue, Globe Park, Marlow, Buckinghamshire, SL7 1YA, UK Tel: +44 (0)1628 564610 E: enquiries@tslproducts.com www.tslproducts.com Please note that the number of AoIP input channels across all streams is limited to 64, which means that you can add incoming streams in the *Session Sinks* tab of the ZMAN Ravenna Advanced Configuration webpage until the total channel count of all incoming streams reaches 64. All incoming channels must be assigned to an output within the 64-channel bus.

The secondary AoIP port cannot be used to add more audio channels. (MPA1-MIX-NET-V-R only.)

# MPA1-MIX-NET-V-1 / MPA1-MIX-NET-V-R Functional Schematic



NOTE: The secondary (redundant) audio-over-IP port is only available on the MPA1-MIX-NET-V-R.

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### MPA1-SOLO-8 Installation

#### MPA1-SOLO-8



Product	Inputs	Outputs	Other
MPA1-SOLO-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



**Products** 





# 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



**Products** 

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#### MPA1 Mix 8 Balanced AES3 Inputs 1-8 Headphone Power DAC Gain Amp Output Balanced Analogue Inputs 1-8 In-Built Loudspeaker \*\*\*\* Power Mixer ADC DAC Gain Left Channel Amp In-Built Loudspeaker **Right Channel** Balanced Analogue Inputs 9-16 **Balanced Line Level** 0,0 -20dB **Output Left Channel** \*\*\*\* ADC PAD **Balanced Line Level** Switch **Output Right Channel** • HHI HH2 Headphone/ CAM Loudspeaker Gain Bank Select vī Channel 1 Front Panel Display Gain Control Channel 2 Gain Ethernet MGMT Control Channel 3 Control Channel 4 Gain Gain Control Control **USB** Port for Updates Channel 5 and Configuration Channel 6 Gain Gain Control **Remote Monitoring** Control and Configuration Channel 7 Channel 8 Gain Gain Control Control \* SNMP Control also supported [...... IFC GPIO



### Initial Setup

In order 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.

If you are installing multiple MPA1 units, you can copy the configuration of one unit to another using a USB flash drive. For more information about this, please refer to the <u>"Load and Save configuration to USB flash</u> <u>drive</u>" chapter on the next page of this manual.

### 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.



following symbol: >>

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

TSL Products - MPA1 Soli X	Θ - □
← → C û 192.168.204.3	☆
TSL Produ	ucts - MPA1 Sol ×
← → C	① 192.168.204.3

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.

Live vi	ew Names	Configuratio	n Gpi	Network Setu	P		
MPA1-SOLO- SDI, MPA1-SOLO-SDI-1, MPA1-SOLO-MADI, MPA1-SOLO-MADI-1, MPA1-SOLO-DANTE, MPA1-SOLO-DA and MPA1-SOLO-8							
Live view	Routing	Names Config	uration	Gpi Network S	etup		

MPA1-MIX-SDI, MPA1-MIX-SDI-V-1, MPA1-MIX-MADI, MPA1-MIX-MADI-V-1, MPA1-MIX-DANTE, MPA1-MIX-DANTE-V-1, MPA1-MIX-NET-V-1 and MPA1-MIX-8

### MADI Input Source Selection

On the *MPA1-SOLO-MADI, MPA1-SOLO-DANTE, MPA1-MIX-MADI* and *MPA1-MIX-DANTE* the MADI input can be supplied through on-board BNC connectivity or via the SFP module – using a copper or optical connection. The active input can be configured via the webpage.

On the *MPA1-SOLO-MADI-1*, *MPA1-SOLO-DANTE-1*, *MPA1-MIX-MADI-1* and *MPA1-MIX-DANTE-1* the MADI input is supplied via the SFP module – using a copper or optical connection. On these units the source selection parameter in the Configuration tab needs to be set to "optical" even if the SFP used is receiving signal over a copper connection.

### Load and Save Configuration to USB Flash Drive

All units within the MPA1 range are equipped with a USB slot on the front panel. This enables saving and loading the unit configuration to and from a USB flash drive. This feature is particularly useful when backing up the current configuration or copying it from one unit to another.

It is recommended to use a USB drive formatted with a FAT32 file system.

To save or load the configuration, follow these steps:

- 1. Insert the USB drive into the USB port located on the front panel of the unit.
- 2. Long press the "Select / Menu" button.
- 3. Using the same encoder, scroll down and select "USB Load/Save".
- 4. Select "Load Config" or "Save Config" accordingly.
- 5. Once the operation is completed, a message of "USB backup/load completed" appears on the display.

The backup file will be stored as a .CONF file in the root of the USB drive.



# 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:

		Live view	Names	Configuration	Gpi	Network Setup	
				GROUP NAMES			
Group	Active	Name					
1 1	Yes	Rem 1		2			
2	No	Rem 2					
3	Yes	AES/Analog					
				CHANNELS NAME	S		
SDI 1	I SDI 2	I Analog + AE	s				
Input	Auto	Name					
SDI 1:1	No	1					
SDI 1:2	No	2					
SDI 1:3	No	3		3			
SDI 1:3	No	3		3			

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-SDI Webpage displays the following:

	Live view	Names (	Configu	ration Gpi	Network Setup	
	LINE OUTPU				OTHER C	ONTROLS
					1	
2 Level	Reference	Attenuated		Local config	Disabled	Enabled
4 Mode	On Mute	Mute on HP inser	rt	Screen brightness		{(j)}
5 Gain	Fixed	Variable			3	
	LOUDSPEAKER M	NODE				
Speakers	On Mute	Mute on HP inser	rt			
	METER THRESH	OLD				
Alarm (Red)	- 10		• DB	7		
Warning (Yellow)	- 18		V DB	2		
finanting (ronoti)				,		
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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-SDI Webpage displays the following:

		Live view	Names	Configu	ration	Gpi	Network Setup	
	GPI CONFIGURATION							
State	Mode				Parameter 1		Pa	arameter 2
off <mark>1</mark>	DIM			2 •				4
On	CUT			T				
Off	SELECT PAGE			¥	1		3	
Off	DISABLED			¥				
Off	DISABLED			Ŧ				
Off	DISABLED			T				
Off	DISABLED			Ŧ				
Off	DISABLED			Y				
			© TSI Produ	ucts 2018	All Rights	Reserved	1.	

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-IP
## MPA1-SOLO-SDI / MPA1-SOLO-SDI-1 Web Page

### 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.

**NOTE:** Features marked with an asterisk (\*) are not applicable to the MPA1-SOLO-SDI-1 and if selected will not function.

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

				Live view	Routing	Names	Configuration	Gpi	Network Setup
						GRO	UP NAMES		
Group	Active	Video	Name						
1	1 🙀	SDI 1	A						
2	Yes	SDI 1	В		2				
s	Yes	SDI 1	c						
4	Yes	SDI 1	D						
6	Yes	SDI 1	E						
8	Yes	SDI 1	F						
7	Yes	SDI 1	G						
8	Yes	SDI 1	н						
8	Yes	SDI 1	I.						
10	Yes	SDI 1	J						
11	Yes	SOI 1	к						
12	Yes	SDI 1	L						
18	Yes	SDI 1	м						
14	Yes	SDI 1	N						
16	Yes	SDI 1	0						
18	Yes	SOI 1	P						
						CHAN	NELS NAMES		
Input	Auto 🔺	Name							
8DI11	Na	SDI 1 : 1	3						
8DI 1 2	No	SDI 1 : 2							

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:



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:

Live	view Na	mes	Configu	ration	Gpi	Ne	twork Setup
		N	NETWORK	SETTI	NGS		
DHCP	Enabled						
IP address	192	•	168		206		4
Subnet mask	255		255		255		0
Gateway address	192		168		206		254
					Apply	: update IP a	address
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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 / MPA1-SOLO-MADI-1 Web Page

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

	LI	veview Names	Configur	ration Gpi	Network Setup	
	LINE	Ε Ουτρυτ			OTHER C	ONTROLS
Level	Reference	Attenu	ated	Local config	Disabled	Enabled
Mode	On 1	Mute 2 Mute on I	IP insert	Screen brightness	3	<b>4</b> 🕓
Gain	Fixed	Variat	<sup>le</sup> 6			
Madi 1 - 16	v					
5	LOUDSP	PEAKER MODE				
Speakers 7	On	Mute on	HP insert			
	METER	THRESHOLD				
Alarm (Red)	- 10		▼ DB			
Warning (Yellow)	- 18		▼ DB	0		
				8		
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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:

			Live view	Names	Configuration	Gpi	Network Setup	
					CHANNELS NAMES			
Input	Auto All	Name						
Madi 1	No	Madi : 1						
Madi 2	No	Madi : 2						
Madi 3 <b>1</b>	No	Madi : 3			2			
Madi 4	No	Madi : 4						
Madi 5	No	Madi : 5						
Madi 6	No	Madi : 6						
Madi 7	No	Madi : 7						
Madi 8	No	Madi : 8						

 Analog 5
 No
 Analog: 69

 Analog 6
 No
 Analog: 70

 Analog 7
 No
 Analog: 71

 Analog 8
 No
 Analog: 72

 Structure
 Comparison

 Mailog 7
 No

 Analog 8
 No

 Analog 8
 No

 Analog 7
 Analog: 72

<u>...</u>

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 MPA1-SOLO-MADI



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



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

**NOTE:** \*This setting is only applicable to the MPA1-SOLO-MADI. On the MPA1-SOLO-MADI-1 this parameter needs to be set to "*optical*" even if the SFP used is receiving signal over a copper connection.



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

Live	view Nan	nes	Configur	ation	Gpi	Net	twork Setup
NETWORK SETTINGS							
DHCP	Enabled						
IP address	192		168		206		4
Subnet mask	255		255		255		0
Gateway address	192		168		206		254
					Apply:	update IP a	address
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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 / MPA1-SOLO-DANTE-1 Web Page

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

		Live view	Names	Configu	ration G	ipi N	etwork Setup			
		LINE OUTPUT					OTHER CO	ONTRO	LS	
Level Mode Gain	Referen On 1 Fixed	nce Mute 2	Attenuate Mute on HP i Variable	d insert É	Local co Screen bright	ness	Disabled	4	Enabled	-
Madi 1 - 16 5 Speakers 7	LOU	DSPEAKER M Mute	ODE Mute on HP	insert			-			W
	ME	TER THRESHO	DLD							
Alarm (Red)	- 10			▼ DB						
Warning (Yellow)	- 18			▼ DB	8					
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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:

			Live view	Names	Configuration	Gpi	Network Setup	
	CHANNELS NAMES							
Input	Auto All	Name						
Madi 1	No	Madi : 1						
Madi 2	No	Madi : 2	2					
Madi 3 <b>1</b>	No	Madi : 3	3		2			
Madi 4	No	Madi : 4	Ļ					
Madi 5	No	Madi : 5	;					
Madi 6	No	Madi : 6	; ;					
Madi 7	No	Madi : 7	,					
Madi 8	No	Madi : 8	3					

<u>...</u>

Dante 59	Yes	Dante : 59
Dante 60	Yes	Dante : 60
Dante 61	Yes	Dante : 61
Dante 62	Yes	Dante : 62
Dante 63	Yes	Dante : 63
Dante 64	Yes	Dante : 64

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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*

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



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



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

**NOTE:** \*This setting is only applicable to the MPA1-SOLO-DANTE. On the MPA1-SOLO-DANTE-1 this parameter needs to be set to "*optical*" even if the SFP used is receiving signal over a copper connection.



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

Live	view Na	mes	Configur	ation	Gpi	Net	twork Setup
	NETWORK SETTINGS						
DHCP	Enabled						
IP address	192		168	•	206		4
Subnet mask	255		255		255		0
Gateway address	192		168		206		254
					Apply:	update IP a	address
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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 <b>LIVE VIEW</b> Tab of the MPA1-SOLO-8 Webpage displays the following:				
Clicking on the <b>LIVE VIEW</b> rap of the WFAT-SOLO-6 Webpage displays the following.	Clicking on the LIVE VIEV	$\mathbf{M}$ Tab of the MDA1 SOLO	8 Mohnago dicalays the	following
	CIICKING ON LINE LIVE VIEV	V TAD UT LITE IVIPAT-SULU-	o vvenpage uisplays the	TOHOWINg.

		Live view	Names	Configu	ration Gpi	Network Setup	
		INE OUTPUT				OTHER C	ONTROLS
Level Mode Gain	Referen On 1 Fixed	ce Mute 2	Attenuated Mute on HP i Variable	l nsert	Local config Screen brightness	Disabled	Enabled
AES 1-16 5 <sub>Speakers</sub> 7	L O U I	DSPEAKER M	ODE Mute on HP	insert			Nad 1 - 16
	MET	ER THRESHO	LD				
Alarm (Red) Warning (Yellow)	- 10 - 18			V DB	8		
			© TSL Pro	ducts 2018	All Rights Rese	rved.	

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.



2

Source Channel Names

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

		Live view	Names	Configuration	Gpi	Network Setup	
				CHANNELS NAMES	6		
Input	Auto All	Name					
AES 1 1	No	AES : 1 2					
AES 2	No	AES:2					
AES 3	No	AES:3					
AES 4	No	AES:4					
AES 5	No	AES : 5					
AES 6	No	AES:6					
AES 7	No	AES:7					
AES 8	No	AES : 8					
2							
	No	Lasta F					
Analog 5	NO	Analog : 5					
Analog 6	No	Analog : 6					
Analog 7	No	Analog : 7					
Analog 8	No	Analog : 8					
		Ωт		te 2017 All Digh	te Doco	avo d	

# Element Function Notes 1 AES/Analog Channel Number

Registered No: 05143472 VAT Registered No: GB254 0619 19

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 Co	onfiguration	Gpi	Network Setup		
	LINE OUTP	UT			OTHER C	ONTROLS	
						1	
Level	Reference	Attenuated	2	Local config	Disabled	Enable	d
Mode	On Mute	Mute on HP insert	4 Scree	n brightness		© 3	
Gain	Fixed	Variable					
	5						
	LOUDSPEAKER	MODE					
Speakers	On Mute	Mute on HP insert	6				
	METER THRES	HOLD					
Alarm (Red)	- 10	~	DB <b>7</b>				
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-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:

Live	e view	Names	C	onfigurat	ion	Gpi	Netw	ork Setup
			NET	WORK SI	ETTINC	GS		
DHC	P Enabled	1						
IP addres	.s	192 .		168	•	206	•	4
Subnet mas	ik 2	255 .		255		255		0
Gateway addres	is ·	192 .		168		206		254
						Apply: up	date IP add	Iress
		_						
		© TSL Pr	oduct	s 2018 A	ll Right	s Reserve	ed.	

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 / MPA1-MIX-SDI-V-1 Web Page

		Live view	Routing	Names	Configuration	Gpi	Network Setup	
					VE VIEW			
Headpho	nes volume Mute	2	0		Loudspeakers vo	olume Mute		4
Displ	Bank 1				• <b>5</b> Di	isplay Video	6	
	Source	Mute	Solo	Volume		Pan	Level	
1	SDI 1 : 1	Mute	Solo		S			
2	SDI 1:2 7	Mute	9 Solo	©				12
3	SDI 1 : 3	Mute	Solo	<b>(</b> )	10			12
4	SDI 1 : 4	Mute	Solo					
5	SDI 1 : 5	Mute	Solo		<u></u>	₽		
6	SDI 1 : 6	Mute	Solo	<b>(</b> )				
7	SDI 1 : 7	Mute	Solo	(	D			
8	SDI 1 : 8	Mute	Solo	<b></b>				
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### 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 <sup>1</sup>
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

### <sup>1</sup> Friendly Names can be set in the NAMES Tab

**NOTE:** Features marked with an asterisk (\*) are not applicable to the MPA1-MIX-SDI-V-1 and if selected will not function.



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

		Live view	Routing	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		
3	0 dB		¥	Stereo	SDI 1 5: SDI 1 : 5		
4	0 dB		Ŧ	Stereo	SDI 1 7: SDI 1 : 7		
5	0 dB		T	Stereo	SDI 2 1: SDI 2 : 17		
6	0 dB		¥	Stereo	SDI 2 3: SDI 2 : 19		
7	0 dB		¥	Stereo	SDI 2 5: SDI 2 : 21		
8	0 dB		•	Stereo	SDI 2 7: SDI 2 : 23		
					В		
1	0 dB		¥	Stereo	Analog/AES 1: Analo	g + AES	
2	0 dB		¥	Stereo	SDI 1 3: SDI 1 : 3		

<u>....</u>

5	0 dB	v	Mono	•
6	0 dB	T	Mono	T
7	0 dB	v	Mono	T
8	0 dB	Ŧ	Mono	•

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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. Audio Channels Embedded in SDI 1,
		SDI 2* and AES and Analogue Inputs can be
		selected.

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

		Live view	Routing	Names	Configuration	Gpi	Network Setup
				GRO	UP NAMES		
Group	Active	Video	Name				
1	Yes	SDI 1	A				
2	Yes	SDI 2	В				
3	Yes	SDI 1	С				
4	Yes	SDI 2	D				
-							
5	Yes	SDI 1	E				

<u>...</u>

15	No	SDI 1	0
16	No	SDI 2	P

<u>...</u>

			CHANNELS N	AMES	
Input	Auto All Name				
SDI 1 1 5	No 6 SDI 1 : 1	7			
SDI 1 2	No SDI 1 : 2				
SDI 1 3	No SDI 1 : 3				
SDI 1 4	No SDI 1 : 4				

<u>...</u>

Analog/AES		
1	No	Analog + AES
Analog/AES	_	
2	No	Analog + AES
Analog/AES	_	
3	No	Analog + AES
Analog/AES		
4	No	Analog + AES
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<sup>1</sup>: This does **not** apply to MPA1-MIX-SDI-V-1.

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<sup>2</sup>: Friendly Names can be set in the **NAMES tab.** 



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-SDI
2	Channel Knob Push and Rotate	Determines 'Push and Rotate' behaviour of
		Channel Rotary Encoders on the front panel of
		the MPA1-MIX-SDI. 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-SDI
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-SDI, whilst selecting volume
		allows level adjustment on the internal
		Loudspeakers and Balanced Line Level
	Coin Don Diantou	Outputs.
6	Gain Bar Display	Enables/Disables the Gain Bar Display from the
		I ITONI DANELOT THE IVIPAT-IVIIX-SDI

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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
13	Loudspeaker Mode	Determines the behaviour of Internal
		Loudspeakers upon insertion of Headphones

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

NETWORK SETTINGS         DHCP       Enabled         IP address       192       .       168       .       206       .       4         Subnet mask       255       .       255       .       255       .       0
DHCP         Enabled           IP address         192         168         206         4           Subnet mask         255         255         0
DHCP         Enabled           IP address         192         168         206         4           Subnet mask         255         255         255         0
IP address         192         168         206         4           Subnet mask         255         255         255         0
Subnet mask 255 . 255 . 255 . 0
Gateway address 192 . 168 . 206 . 254
Apply: update IP address

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 / MPA1-MIX-MADI-V-1 Web Page

LIVE VIEW  Headphones volume  Mute  1 2 Bank 1	Live	view	Routing	Names	Configuration	Gpi	Network Setup
Headphones volume       Mute       Loudspeakers volume       Mute         1       2       3       4         Displayed group       Bank 1       • 5       5         Source       Mute       Solo       Volume       Pan       Level         1       Madi : 1       6       Mute       Solo				LIV	VE VIEW		
1       2       3       4         Displayed group       Bank 1       5       5       4         Source       Mute       Solo       Volume       Pan       Level         1       Madi: 1       6       Mute       Solo	Headphones volume	Mute		(i)	Loudspeakers volume	Mute	
Displayed group     Bank 1     5       Source     Mute     Solo     Volume     Pan     Level       1     Madi : 1     6     Mute     Solo     9     10     11       2     Madi : 2     Mute     Solo     9     10     11       3     Madi : 3     Mute     Solo     9     10     11       4     Madi : 4     Mute     Solo     9     10     11	·	1		2		3	4
Source     Mute     Solo     Volume     Pan     Level       1     Madi: 1     6     Mute     Solo	Displayed group	Bank 1			• 5		
Madi: 1       6       Mute       Solo       0       0       10       11         2       Mute       Solo       0       0       0       11         2       Mute       Solo       0       0       0       11         3       Madi: 3       Mute       Solo       0       0       0       0         4       Mute       Solo       0       0       0       0       0       0         5       Mute       Solo       0 <t< td=""><td>Source</td><td>Mute</td><td>Solo</td><td>Volume</td><td>Pan</td><td></td><td>Level</td></t<>	Source	Mute	Solo	Volume	Pan		Level
2     Madi: 2     Mute     Solo     10     11       2     Madi: 2     Mute     Solo     10     11       3     Madi: 3     Mute     Solo     10     11       4     Madi: 4     Mute     Solo     10     11       5     Madi: 5     Mute     Solo     10     11	Madi : 1 6	Mute	Solo	0			
Madi: 3     Mute     Solo       4     Madi: 4     Mute       5     Madi: 5     Mute	Madi : 2	7 Mute	8 Solo	9		)	11
4 Madi : 4 Mute Solo	Madi : 3	Mute	Solo				_
5 Madi : 5 Mute Solo	Madi : 4	Mute	Solo				
	Madi : 5	Mute	Solo	(	9		
5 Madi : 6 Mute Solo	Madi : 6	Mute	Solo				
7 Madi : 7 Mute Solo	Madi : 7	Mute	Solo				
3 Madi : 8 Mute Solo	Madi : 8	Mute	Solo				

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

	Live view	Routing	Names	Configuration	Gpi	Network Setup	
			GROUP R	OUTING TABLE			
Control	Gain		Stereo	Source			
			1	А			
1 2	0 dB	3 •	Мопо	Madi 1: Madi : 1			٣
2	0 dB	¥	<b>4</b> Mono	Madi 2: Madi : 2		5	T
3	0 dB	T	Mono	Madi 3: Madi : 3			T
4	0 dB	v	Mono	Madi 4: Madi : 4			T
5	0 dB	¥	Mono	Madi 5: Madi : 5			¥
6	0 dB	¥	Mono	Madi 6: Madi : 6			T
7	0 dB	•	Mono	Madi 7: Madi : 7			T
8	0 dB	T	Мопо	Madi 8: Madi : 8			T
				В			
1	0 dB	v	Мопо	Madi 9: Madi : 9			Ŧ

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

<u>...</u>

7	0 dB	•	Мопо		•
8	0 dB	T	Mono		•
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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. MADI Channels 1-64 can be				
		selected.				

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

	Live v	iew	Routing	Names	Configuration	Gpi	Network Setup	
				GRC	UP NAMES			
Group	Active	Name						
1	Yes	А		3				
2	Yes	В						
3	Yes	С						
4	Yes	D						
5	Yes	E						
					<u></u>			
15	No	0						
16	No	Ρ						

CHANNELS NAMES				
4 Input	5 Auto All	Name		
Madi 1	No	Madi : 1 6		
Madi 2	No	Madi : 2		
Madi 3	No	Madi : 3		
Madi 4	No	Madi : 4		

<u>....</u>

<u>...</u>



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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
		Кпор
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

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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

**Products** 

**NOTE:** \*This setting is only applicable to the MPA1-MIX-MADI. On the MPA1-MIX-MADI-V-1 this parameter needs to be set to "*optical*" even if the SFP used is receiving signal over a copper connection.



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 / MPA1-MIX-DANTE-V-1 Web Page

Clicking on the	LIVE VIEW Tab of the	MPA1-MIX-DANTE	Webpage o	displays the	following:
cheking on the			webpuge c	ispidys the	ionowing.

		Liv	e view	Rout	ing	Names	Config	uration	Gpi	Network	Setup	
	LIVE VIEW											
	Headphones vo Displayed (	olume group	Mute 1 Bank 9	€	2		Louds	peakers volume	Mute 3	_	4	©—
	Source	l	Mute	Solo	Volume		Pa	an		Level		
1	Dante : 1 6		Mute	Solo						-		
2	Dante : 2		7 Mute	8 Solo		9						
3	Dante : 3		Mute	Solo						-		
4	Dante : 4		Mute	Solo						-		
5	Dante : 5		Mute	Solo						-		
6	Dante : 6	[	Mute	Solo		0				-		
7	Dante : 7	(	Mute	Solo						_		
8	Dante : 8		Mute	Solo								
				C	) TSL Pr	oducts 2	017 All R	ights Rese	rved.			

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

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	Live view	Routing	Names	Configuration	Gpi	Network Setup	
	GROUP ROUTING TABLE						
Control	Gain		Stereo	Source			
			1	A			
1 2	0 dB	3 •	Mono	Madi 1: Madi : 1			•
2	0 dB		4 Mono	Madi 2: Madi : 2		5	•
з	0 dB	•	Mono	Madi 3: Madi : 3			•
4	0 dB	•	Mono	Madi 4: Madi : 4			•
5	0 dB	•	Mono	Madi 5: Madi : 5			•
6	0 dB	•	Mono	Madi 6: Madi : 6			•
7	0 dB	•	Mono	Madi 7: Madi : 7			•
8	0 dB	•	Mono	Madi 8: Madi : 8			•
				в			
1	0 dB	•	Mono	Madi 9: Madi : 9			•
<u></u>							
7	0 dB	¥	Мопо	Dante 63: The Flethe	er		٣
8	0 dB	Ŧ	Мопо	Dante 64: When The	: Ti		*
		© TSL	Products 2	017 All Rights Rese	erved.		

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:

	Live view	Routing	Names	Configuration	Network Setup	
			GROUP	NAMES		
Group	Active Name					
1 <u>1</u>	Yes 2 A			3		
2	Yes B					
3	Yes					
4	Yes D					
5	Yes					

<u>...</u>

15	No	0
16	No	P

<u>...</u>

CHANNELS NAMES				
4 Input	5 Auto All	Name		
Madi 1	No	Madi : 1	6	
Madi 2	No	Madi : 2		
Madi 3	No	Madi : 3		
Madi 4	No	Madi : 4		

<u>....</u>



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**Products** 



Routing Names Network Setup 4 Push 1 Push Push & rotate 2 Rotate 5 Hold 3 6 8 Level Gain Bar display 7 Local config Disabled 9 Mode On 10 Gain Screen brightness 11 13 Source I/O 12 Speakers Coaxial Optical Mute Mute on HP insert © TSL Products 2018 All Rights Reserved.

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		

**Products** 

**NOTE:** This setting is only applicable to the MPA1-MIX-DANTE. On the MPA1-MIX-DANTE-V-1 this parameter needs to be set to "*optical*" even if the SFP used is receiving signal over a copper connection.



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-DANTE



### MPA1-MIX-NET-V-1 / MPA1-MIX-NET-V-R Web Page

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

	Live view	Routing	Names	Configuration	Gpi	Network Setup	
	LIVE VIEW						
Headphones vol Displayed g	nume Mute – 1 roup Bank 9	<u></u> 2		Loudspeakers volume	Mute 3	4	<b></b> ©
Source	Mute	Solo Volu	ıme	Pan		Level	
1 AOIP:1 6	Mute	Solo					
2 AoIP:2	Mute	Solo	9				
3 AoIP : 3	Mute	Solo					
4 A0IP : 4	Mute	Solo					
5 A0IP : 5	Mute	Solo					
6 A0IP : 6	Mute	Solo					
7 A0IP : 7	Mute	Solo					
8 AoIP : 8	Mute	Solo					
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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



GROUP ROUTING TABLE         Control       Gain       Stereo       Source         1       2       0 dB       3       More       Madi 1: Madi 1:         2       0 dB       3       More       Madi 2: Madi 2:       5         3       0 dB       4       More       Madi 2: Madi 2:       5         3       0 dB       4       More       Madi 3: Madi 2:       5         3       0 dB       4       More       Madi 3: Madi 2:       5         4       0 dB       4       More       Madi 3: Madi 2:       5         6       0 dB       4       More       Madi 4: Madi 2:       5         6       0 dB       4       More       Madi 6: Madi 2:       6         7       0 dB       4       More       Madi 8: Madi 2:       6         1       0 dB       4       More       Madi 8: Madi 2:       6         1       0 dB       4       More       Madi 8: Madi 2:       6         1       0 dB       4       More       Madi 8: Madi 2:       6         1       0 dB       4       More       Madi 8: Madi 2:       6         1		Live view	Routing	Names	Configuration	Gpi	Network Setup	
Control         Gain         Stereo         Source           1         2         0 dB         3         Moo         Madi 1: Madi : 1           2         0 dB         3         4         Moo         Madi 2: Madi : 2         5           3         0 dB         4         Moo         Madi 3: Madi : 3         5           4         0 dB         4         Moo         Madi 3: Madi : 3           4         0 dB         4         Moo         Madi 3: Madi : 3           4         0 dB         4         Moo         Madi 3: Madi : 3           4         0 dB         4         Moo         Madi 4: Madi : 4           5         0 dB         4         Moo         Madi 5: Madi : 5           6         0 dB         4         Moo         Madi 7: Madi : 6           7         0 dB         4         Moo         Madi 8: Madi : 6           B           1         0 dB         4         Moo         Madi 9: Madi : 9           Image: Moo         Madi 9: Madi : 9           Image: Moo         ApP 63: ApP : 63				GROUP R	OUTING TABLE			
1       2       0.d8       3       Moo       Mad 1: Madi : 1         2       0.d8       4       Moo       Mad 2: Madi : 2       5         3       0.d8       4       Moo       Mad 3: Madi : 3         4       0.d8       4       Moo       Madi 3: Madi : 3         4       0.d8       4       Moo       Mad 4: Madi : 4         5       0.d8       4       Moo       Mad 3: Madi : 3         4       0.d8       4       Moo       Mad 3: Madi : 4         5       0.d8       4       Moo       Mad 4: Madi : 4         5       0.d8       4       Moo       Madi 7: Madi : 5         6       0.d8       4       Moo       Madi 7: Madi : 6         7       0.d8       4       Moo       Madi 8: Madi : 6         Image: State of the state o	Control	Gain		Stereo	Source			
1       2       0.68       3       0.000       Madi 1: Madi : 1         2       0.68       1       4.000       Madi 2: Madi : 2       5         3       0.68       1       Moo       Madi 3: Madi : 3         4       0.68       1       Moo       Madi 4: Madi : 4         5       0.68       1       Moo       Madi 5: Madi : 5         6       0.68       1       Moo       Madi 5: Madi : 5         7       0.68       1       Moo       Madi 7: Madi : 7         8       0.68       1       Moo       Madi 8: Madi : 8         1       0.68       1       Moo       Madi 9: Madi : 9         Image: Madi 9: Ma				1	A			
2       0.48       •       4       More       Madi 2: Madi : 2       5         3       0.48       •       More       Madi 3: Madi : 3         4       0.48       •       More       Madi 4: Madi : 4         5       0.48       •       More       Madi 4: Madi : 4         5       0.48       •       More       Madi 5: Madi : 6         6       0.48       •       More       Madi 7: Madi : 6         7       0.48       •       More       Madi 7: Madi : 7         8       0.48       •       More       Madi 8: Madi : 8         1       0.48       •       More       Madi 9: Madi : 9         Image: More         7       0.48       •       More       Madi 9: Madi : 9	1 2	0 dB	3 •	Mono	Madi 1: Madi : 1			٠
3       0 dB       *       Moro       Madi 3: Madi: 3         4       0 dB       *       Moro       Madi 4: Madi: 4         5       0 dB       *       Moro       Madi 5: Madi: 5         6       0 dB       *       Moro       Madi 6: Madi: 6         7       0 dB       *       Moro       Madi 7: Madi: 7         8       0 dB       *       Moro       Madi 8: Madi: 8         1       0 dB       *       Moro       Madi 9: Madi: 9	2	0 dB	•	4 Mono	Madi 2: Madi : 2		5	٠
4       0 dB       *       Mono       Madi 4: Madi : 4         5       0 dB       *       Mono       Madi 5: Madi : 5         6       0 dB       *       Mono       Madi 6: Madi : 6         7       0 dB       *       Mono       Madi 7: Madi : 7         8       0 dB       *       Mono       Madi 8: Madi : 8         1       0 dB       *       Mono       Madi 9: Madi : 9         Image: The second sec	з	0 dB	·	Mono	Madi 3: Madi : 3			•
5       0 dB       •       Mono       Madi S: Madi : 5         6       0 dB       •       Mono       Madi 6: Madi : 6         7       0 dB       •       Mono       Madi 7: Madi : 7         8       0 dB       •       Mono       Madi 8: Madi : 8         1       0 dB       •       Mono       Madi 9: Madi : 9         Image: State of the state	4	0 dB	•	Mono	Madi 4: Madi : 4			•
6       0 d8       •       Mono       Madi 6: Madi : 6         7       0 d8       •       Mono       Madi 7: Madi : 7         8       0 d8       •       Mono       Madi 8: Madi : 8         0       0 d8       •       Mono       Madi 8: Madi : 8         1       0 d8       •       Mono       Madi 9: Madi : 9         1       0 d8       •       Mono       Madi 9: Madi : 9         ••••         •••         7       0 d8       •       Mono       AolP 63: AolP : 63	5	0 dB	•	Mono	Madi 5: Madi : 5			٠
7       0 dB       Mono       Madi 7: Madi : 7         8       0 dB       Mono       Madi 8: Madi : 8         B         1       0 dB       Mono       Madi 9: Madi : 9            7       0 dB       Mono       AolP 63: AolP : 63	6	0 dB	•	Mono	Madi 6: Madi : 6			•
8         0 dB         Mono         Madi 8: Madi : 8           B         Image: Constraint of the state of the stat	7	0 dB	•	Mono	Madi 7: Madi : 7			•
B         Mono         Madi 9: Madi : 9           1         0 dB         •         Mono         Madi 9: Madi : 9           ····           7         0 dB         •         Mono         AoIP 63: AoIP : 63	8	0 dB	•	Mono	Madi 8: Madi : 8			٠
1         0 dB         Mono         Madi 9: Madi 9              7         0 dB         Mono         AoIP 63: AoIP : 63	В							
7         0 dB         Mono         AoIP 63: AoIP : 63	1	0 dB	•	Mono	Madi 9: Madi ; 9			*
7         0 dB         Mono         AoIP 63: AoIP : 63	<u></u>							
	7	0 dB	~	Mono	AoIP 63: AoIP : 63			~
8         0 dB         Mono         AoIP 64: AoIP : 64	8	0 dB	~	Мопо	AoIP 64: AoIP : 64			~

Clicking on the **ROUTING** Tab of the MPA1-MIX-NET 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 and AoIP		
		Channels 1-64 can be selected.		



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

	Live view	Routing	Names	Configuration	Network Setup	
			GROUP	NAMES		
Group	Active Name					
<sup>1</sup> <u>1</u>	Yes 2 A			3		
2	Yes B					
3	Yes C					
4	Yes D					
5	Yes E					

<u>...</u>

15	No	0
16	No	P

<u>...</u>

			CHANNELS NAMES
4 Input	5 Auto All	Name	
Madi 1	No	Madi : 1	6
Madi 2	No	Madi : 2	
Madi 3	No	Madi : 3	
Madi 4	No	Madi : 4	

<u>····</u>

 AolP 62
 No
 Replay 1

 AolP 63
 No
 Replay 2

 AolP 64
 No
 Director

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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-
		NET.
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-NET Webpage displays the following:

**Products** 



Element	Function	Notes
1	Channel Knob Push	Enables/Disables 'Push to Mute' function of
		Channel Rotary Encoders on front panel of
		MPA1-MIX-NET
2	Channel Knob Push and Rotate	Determines 'Push and Rotate' behaviour of
		Channel Rotary Encoders on the front panel of
		the MPA1-MIX-NET. 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-NET



4	Group Select Knob Push	Enables/Disables Push to MUTE function of Headphone, Internal Loudspeakers and Balanced Line Outputs using Group Select
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-NET, 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-NET
7	Local Config	Enables/Disables configuration from the front panel of the MPA1-MIX-NET
8	Line Output Level	Sets the Output Level of the Balanced Line Level Outputs on the MPA1-MIX-NET
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-NET 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-NET



#### MPA1-MIX-8 Web Page

		Live view	Routing	Names	Configuration	Gpi	Network Setup	
	LIVE VIEW							
Headp	ohones volume Mute	2		<u></u>	Loudspeakers volume	Mute 3	4	
Di	isplayed group Bank 1				• 5			
	Source	Mute	Solo	Volume	Pan		Level	
1	AES: 1	Mute	Solo					
2	AES : 2	Mute	Solo					
3	AES : 3 6	Mute	Solo		1	0		
4	AES: 4	Mute	Solo					11
5	AES : 5	7 Mute	Solo		9			
6	AES:6	Mute	Solo					
7	AES:7	Mute	Solo					
8	AES:8	Mute	Solo	6				

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

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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



		Live view		Names	Configuration	Gpi	Network Setup		
	GROUP ROUTING TABLE								
Control	Gain			Stereo	Source				
					A 1				
1 2	0 dB		<b>▼</b> 3	Mono 4	AES 1: AES : 1			5	T
2	0 dB		T	Mono	AES 2: AES : 2				T
3	0 dB		Ŧ	Mono	AES 3: AES : 3				Ŧ
4	0 dB		Ŧ	Mono	AES 4: AES : 4				٣
5	0 dB		v	Mono	AES 5: AES : 5				Ŧ
6	0 dB		v	Mono	AES 6: AES : 6				٣
7	0 dB		Ŧ	Mono	AES 7: AES : 7				Ŧ
8	0 dB		T	Mono	AES 8: AES : 8				Ŧ
					В				
1	0 dB		¥	Mono	AES 9: AES : 9				٣
2	0 dB		v	Mono	AES 10: AES : 10				٣
3	0 dB		•	Мопо	AES 11: AES : 11				Ŧ

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

<u>...</u>

5	0 dB	•	Mono	<b>T</b>
6	0 dB	T	Mono	•
7	0 dB	*	Mono	Y
8	0 dB	v	Mono	T

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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:

		Live view	Routing	Names	Configuration	Gpi	Network Setup
				GRO	UP NAMES		
Group	Active	Name					
1	Yes	A					
. 1	_	p 2					
2	2 Yes	ь <u>э</u>					
3	Yes	С					
4	Yes	D					
5	Yes	E					
6	No	F					
7	No	G					
					<u></u>		
	_						
15	Yes	0					
16	Yes	Ρ					

CHANNELS NAMES			
Input	Auto All	Name	
AES 1	No	AES:1	
AES 2	No	AES:2	
AES 3	No	AES:3	
AES 4	No	AES:4	
AES 5	No	AES:5	

<u>....</u>

ANALOG 14	No	ANALOG: 14
ANALOG 15	No	ANALOG : 15
ANALOG 16	No	ANALOG : 16

<u>....</u>

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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:

<b>E</b> 1	Provent in a	Netes
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

**Products** 



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

		Live view	Routing	Names (	Configuration	<mark>Gpi</mark> Network	Setup
	GPI CONFIGURATION						
State	Mode				Parameter 1		Parameter 2
о <b>я <u>1</u></b>	SELECT PAGE			•	1 3	}	4
Off	DIM		2	•			
Off	CUT			•			
Off	DISABLED			•			
Off	DISABLED			•			
Off	DISABLED			•			
Off	DISABLED			•			
Off	DISABLED			•			
	GPI/O Conne	ctor :	) o Di	B-25			

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-8



#### 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:



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.
		and/or Balanced Analogue Audio Outputs.
		NOTE: The exact behaviour of this control can be modified using the MPA1-SOLO-IP Webpage, see <u>Settings 2, 4 and 5</u> 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 <u>section 1</u> of the MPA1-SOLO-IP Webpage.
		The Select Menu Encoder is also used to access the Settings Menu of the MPA-SOLO-IP. Further information can be found in the <u>Initial Setup</u> chapter 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.



### MPA1-SOLO-SDI / MPA1-SOLO-SDI-1 Operation

The front panel of the MPA1-SOLO-SDI 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-SDI Webpage, see <u>Settings 2, 4 and 5</u> 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 <u>section 1</u> of the MPA1-SOLO-SDI Webpage.
		The Select Menu Encoder is also used to access the Settings Menu of the MPA-SOLO-SDI. Further information can be found in the <u>Initial Setup</u> chapter 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.



# MPA1-SOLO-MADI / MPA1-SOLO-MADI-1 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 <u>Settings 2,4 and 5</u> 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 <u>Initial</u> <u>Setup</u> chapter 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 / MPA1-SOLO-DANTE-1 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 <u>Settings 2,4 and 5</u> 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 <u>Initial</u> <u>Setup</u> chapter 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.	
		audio source.	
2	Output Volume	Rotate to adjust the Audio Level of the Internal	
		Loudspeakers and/or Balanced Analogue	
		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 <u>Settings 2,4 and 5</u> 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.	
		Setup chapter 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 Wieter and Dual Audio Wieter with Phase	
1		wietering modes.	



### MPA1-MIX-SDI / MPA1-MIX-SDI-V-1 Operation

The front panel of the **MPA1-MIX-SDI-V-1** and **MPA1-MIX-SDI-V** are both 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 the <u>Mix Bank</u> <u>section</u> 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 <u>Setting 1</u> of the MPA-MIX-SDI Webpage.
		PUSH and ROTATE to adjust Balance of selected source or to map alternate audio source to encoder.
		NOTE: PUSH and ROTATE functionality is determined by <u>Setting 2</u> on the MPA-MIX-SDI Webpage.
		PUSH and HOLD to enable SOLO Monitoring of selected source.
		NOTE: PUSH and HOLD to enable SOLO Monitoring can be disabled using <u>Setting 3</u> of the MPA-MIX-SDI Webpage.
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 <b><u>or</u></b> to adjust Level of Stereo Monitoring Mix.
		NOTE: The behaviour of the Select/Menu encoder is determined by determined by <u>Settings 4 and 5</u> on the MPA-MIX-SDI Webpage.
		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 of this manual.



#### MPA1-MIX-MADI / MPA1-MIX-MADI-V-1 Operation

The front panel of the **MPA1-MIX-MADI-V** and **MPA1-MIX-MADI-V-1** are both 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 the <u>Mix Bank</u> <u>section</u> 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 <u>Setting 1</u> of the MPA-MIX-SDI Webpage.
		PUSH and ROTATE to adjust Balance of selected source or to map alternate audio source to encoder.
		NOTE: PUSH and ROTATE functionality is determined by <u>Setting 2</u> on the MPA-MIX-SDI Webpage.
		PUSH and HOLD to enable SOLO Monitoring of selected source.
		NOTE: PUSH and HOLD to enable SOLO Monitoring can be disabled using <u>Setting 3</u> of the MPA-MIX-MADI Webpage.
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. <i>NOTE: The behaviour of the Select/Menu encoder is determined by</i> <u>Settings 4 and 5</u> on the MPA-MIX-MADI Webpage.
		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 <b>Initial Setup</b> chapter of this manual.



## MPA1-MIX-DANTE / MPA1-MIX-DANTE-V-1 Operation

The front panel of the **MPA1-MIX-DANTE-V** and **MPA1-MIX-DANTE-V-1** are both 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 <u>Routing Tab</u> of the MPA-MIX-DANTE.
		PUSH to MUTE/UNMUTE contribution of Sources 1-8 to Stereo Mix.
		NOTE: PUSH to MUTE/UNMUTE functionality can be disabled by <u>Setting 1</u> of the MPA-MIX-DANTE Webpage.
		PUSH and ROTATE to adjust Balance of selected source or to map alternate audio source to encoder.
		NOTE: PUSH and ROTATE functionality is determined by <u>Setting 2</u> on the MPA-MIX-DANTE Webpage.
		PUSH and HOLD to enable SOLO Monitoring of selected source.
		NOTE: PUSH and HOLD to enable SOLO Monitoring can be disabled using <u>Setting 3</u> of the MPA-MIX-DANTE Webpage.
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 <u>Settings 4 and 5</u> on the MPA-MIX-DANTE Webpage.
		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-DANTE. Further information can be found in the <b>Initial Setup</b> chapter of this manual.



#### MPA1-MIX-NET-V-1 / MPA1-MIX-NET-V-R Operation

The front panel of the **MPA1-MIX-NET-V-1** and **MPA1-MIX-NET-V-R** are 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 <u>Routing Tab</u> of the MPA-MIX-NET.
		PUSH to MUTE/UNMUTE contribution of Sources 1-8 to Stereo Mix.
		NOTE: PUSH to MUTE/UNMUTE functionality can be disabled by <u>Setting 1</u> of the MPA-MIX-NET Webpage.
		PUSH and ROTATE to adjust Balance of selected source <b>or</b> to map alternate audio source to encoder.
		NOTE: PUSH and ROTATE functionality is determined by <u>Setting 2</u> on the MPA-MIX-NET Webpage.
		PUSH and HOLD to enable SOLO Monitoring of selected source.
		NOTE: PUSH and HOLD to enable SOLO Monitoring can be disabled using <u>Setting 3</u> of the MPA-MIX-NET Webpage.
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 <u>Settings 4 and 5</u> on the MPA-MIX-NET Webpage.
		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-NET. Further information can be found in the <u>Initial</u> <u>Setup</u> chapter of this manual.



#### MPA1-MIX-8 Operation

The front panel of the MPA1-MIX-8-V 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 <u>Routing Tab</u> of the MPA1-MIX-8.
		PUSH to MUTE/UNMUTE contribution of Sources 1-8 to Stereo Mix.
		NOTE: PUSH to MUTE/UNMUTE functionality can be disabled by <u>Setting 1</u> of the MPA-MIX-8 Webpage.
		PUSH and ROTATE to adjust Balance of selected source or to map alternate audio source to encoder.
		NOTE: PUSH and ROTATE functionality is determined by <u>Setting 2</u> on the MPA-MIX-8 Webpage.
		PUSH and HOLD to enable SOLO Monitoring of selected source.
		NOTE: PUSH and HOLD to enable SOLO Monitoring can be disabled using <u>Setting 3</u> of the MPA-MIX-8 Webpage.
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. <i>NOTE: The behaviour of the Select/Menu encoder is determined by</i> <u>Settings 4 and 5</u> on the MPA-MIX-8 Webpage.
		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 <u>Initial</u> <u>Setup</u> chapter of this manual.

### MPA1-SOLO-IP Front Panel Display



Headphone 180	8	0	Speakers
-0-		-0-	
-6-		-6-	
-12-	4	-12-	
-18-		-18-	
-24-		-24-	
-30-		-30-	
-36-		-36-	
-42-		-42-	5
-48-		-48-	Bal/Pan
-54-		-54-	(Mode)
	MAIN PGM	7	



**Products** 



#### MPA1-SOLO-SDI / MPA1-SOLO-SDI-1 Front Panel Display





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### MPA1-MIX-SDI / MPA1-MIX-SDI-V-1 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 <u>Names Tab</u> of the MPA1-MIX-SDI Webpage.
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 <u>Configuration Tab</u> of the MPA-MIX-SDI Webpage.
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 <u>Group Names</u> section displayed within the Names Tab of the MPA1-MIX-SDI Webpage.



#### MPA1-SOLO-MADI / MPA1-SOLO-MADI-1 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	For further information on adjusting warning and alarm thresholds
		refer to settings 7 and 8 in the <u>webpage configuration</u> table.
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	For further information on how to set these names, refer to the
		<u>Channel Names</u> section of this manual.
8	Phase Meter	Audio Phase Meter for currently selected audio pair



### MPA1-MIX-MADI / MPA1-MIX-MADI-V-1 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 <u>Names Tab</u> of the MPA1-MIX-MADI Webpage.
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 <u>Configuration Tab</u> of the MPA-MIX-MADI Webpage.
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	Display of current Headphone and Loudspeaker Output Level settings
	Speakers Level	(0 Min – 100 Max).
	Displays	
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 <u>Names Tab</u> of the MPA1-MIX-MADI Webpage.

## MPA1-SOLO-DANTE / MPA1-SOLO-DANTE-1 Front Panel Display





**Products** 

## MPA1-MIX-DANTE / MPA1-MIX-DANTE-1 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 <u>Channels Name</u> section of the MPA1-MIX-DANTE Webpage.	
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 <u>Configuration Tab</u> of the MPA-MIX-DANTE Webpage.	
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 <u>Names Tab</u> of the MPA1-MIX- DANTE Webpage.	

# MPA1-MIX-NET-V-1 / MPA1-MIX-NET-V-R Front Panel Display



Display	Function	Notes
1	Channel Label	Label displaying Channel friendly name.
		NOTE: Friendly names for MADI and AoIP sources can be
		entered in the Channel Names section displayed within the
		Names Tab of the MPAI-MIX-NET Webpage.
		See the <u>Channels Name</u> section of the MIPA1-MIX-NET
		Webpage.
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 <u>Configuration Tab</u> of the MPA-MIX-NET
		Webpage.
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	Display of current Headphone and Loudspeaker Output Level
	Level Display	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 <u>Names Tab</u> of the MPA1-MIX-NET
		Webpage.

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## MPA1-SOLO-8 Front Panel Display



Headphone 180	8	0	Speakers
1			<b>—</b> 2
-0-		-0-	
-6-		-6-	
-12-	4	-12-	
-18-		-18-	
-24-		-24-	
-30-		-30-	
-36-		-36-	
-42-		-42-	5
-48-		-48-	Bal/Dan
-54-		-54-	(Mode)
	MAIN PGM	7	



**Products** 



### MPA1-MIX-8 Front Panel Display



Function	Notes
Channel Label	Label displaying Channel friendly name.
	NOTE: Friendly names can be entered in the Channel Names section
	displayed within the <u>Names Tab</u> of the MPA1-MIX-8 Webpage.
Audio Level Meters	Displays Audio Level of associated Source Channel
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 <u>Configuration Tab</u> of the MPA-MIX-8 Webpage.
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
Headphone and	Display of current Headphone and Loudspeaker Output Level settings
Speakers Level	(0 Min – 100 Max).
Displays	
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 <u>Names Tab</u> of the MPA1-MIX-MADI Webpage.
	Audio Level Meters Gain Bar Display Balance/Pan Display Headphone and Speakers Level Displays Mix Bank Name

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