Presets (Factory Settings)

Nr.	Name	Mode (C = Couple)	Max. Out Level	Ultramizer Density	Ultramizer Speed	Ultramizer Range	Denoiser Threshold	Denoiser Sensitivity	Exciter Process	Exciter Tune	Super Bass Process	Super Bass Tune	3D Surround Stereo Width	Crossover Frequency
1	Heavy Pop	C	0	100	25	12	-87	0	44	12.0 kHz	22	80	20	250 Hz
2	It's 3D	C	0	0	1	3	-87	0	20	12.0 kHz	25	85	100	100 Hz
3	The Wall	C	-1	100	32	24	-87	0	20	10.5 kHz	8	80	0	160 Hz
4	Mr. Enhancer	C	0	0	1	0	-87	0	62	12.0 kHz	60	75	0	100 Hz
5	Analog Compressor	C	-1	70	85	5	-87	0	0	12.0 kHz	0	100	0	160 Hz
6	Disco	C	-1	32	66	9	-87	0	40	10.5 kHz	50	100	15	250 Hz
7	Heavy Denoiser	C	0	15	43	0	-80	70	27	9.0 kHz	0	100	10	125 Hz
8	Light Denoiser	C	0	24	50	1	-75	33	40	7.5 kHz	0	100	10	125 Hz
9	It's Pop	C	0	50	55	3	-87	0	29	9.0 kHz	18	80	30	125 Hz
10	The Drums	C	0	70	83	6	-87	0	40	9.0 kHz	10	100	0	100 Hz
11	RMS Limiter	C	-14 (RMS)	50	20	24	-87	0	10	5.0 kHz	5	90	0	250 Hz
12	The Voice	C	-1	30	90	12	-60	10	53	5.0 kHz	0	90	0	2.0 kHz
13	Max. Headroom	C	0	88	1	3	-82	10	0	12.0 kHz	0	100	0	0.8 kHz
14	Power to the people	C	-16 (RMS)	100	1	24	-75	10	0	12.0 kHz	0	100	0	0.8 kHz
15	Want it all ?	C	-1	60	1	12	-85	25	70	8.0 kHz	15	61	65	0.32 kHz
16	Pop / Enhance	L	0	100	25	12	-87	0	44	12.0 kHz	22	80	-	250 Hz
		R	0	0	1	0	-87	0	62	12.0 kHz	60	75	-	100 Hz
17	Wall / Denoiser	L	-1	100	32	24	-87	0	20	10.5 kHz	8	80	-	160 Hz
		R	0	15	43	0	-80	70	27	9.0 kHz	0	100	-	125 Hz
18	RMS Limiter / Compressor	L	-14 (RMS)	50	20	24	-87	0	10	5.0 kHz	5	90	-	250 Hz
		R	-1	70	85	5	-87	0	0	12.0 kHz	0	100	-	160 Hz
19	Limiter / Limiter	L	-14 (RMS)	50	20	24	-87	0	10	5.0 kHz	5	90	-	250 Hz
		R	-14 (RMS)	50	20	24	-87	0	10	5.0 kHz	5	90	-	250 Hz
20	Compressor / Compressor	L	-1	70	85	5	-87	0	0	12.0 kHz	0	100	-	160 Hz
		R	-1	70	85	5	-87	0	0	12.0 kHz	0	100	-	160 Hz
21 - 50	(Default)	C	0	0	1	0	off	0	0	12.0 kHz	0	100	0	100 Hz

*) You can change the MAX. OUT LEVEL parameter from Peak to RMS mode by pressing the MAX. OUT LEVEL key for about 2 seconds.

MIDI Implementation

MIDI Implementation chart				
Function		**Transmitted**	**Recognized**	**Remarks**
Basic	Default	OFF, 1 - 16	OFF, 1 - 16	memorized
Channel	Changed	OFF, 1 - 16	OFF, 1 - 16	
Mode	Default	1,2,3,4	1,2,3,4	
	Messages	X	X	
	Altered	X	X	
Note Number		X	X	
	True Voice	X	X	
Velocity	Note ON	X	X	
	Note OFF	X	X	
After Touch	Key´s	X	X	
	Ch´s	X	X	
Pitch Bender		X	X	
Control		O 70 - 87	O 70 - 87	see add. Table
Progr. Change		O (0-49)	O (0-49)	
	True #	1-50	1-50	
System Exclusive		X	X	
System Common	Song Pos	X	X	
	Song Sel	X	X	
	Tune	X	X	
System Real Time	Clock	X	X	
	Commands	X	X	
Aux Messages	Local ON/OFF	X	X	
	All notes OFF	X	X	
	Active Sense	X	X	
	Reset	X	X	
Notes				

O = YES, X = NO

Mode 1: OMNI ON, POLY
Mode 2: OMNI ON, MONO
Mode 3: OMNI OFF, POLY
Mode 4: OMNI OFF, MONO

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Controller Functions with MIDI

Parameter Name	Display Range	Midi Control Number	Control Value Range
Max. Out Level	-48 .. 0	70	0 .. 48
RMS Mode		71	0 = Peak, 1 = RMS
Stereo Width	0 .. 100	72	0 .. 100
Ultramizer Density	0 .. 100	73	0 .. 100
Ultramizer Speed	1 .. 100	74	0 .. 99
Ultramizer Range	0 .. 24	75	0 .. 24
Denoiser Threshold	OF, -90 .. 0	76	0 .. 91
Denoiser Sensitivity	0..100	77	0 .. 100
Left / Right	-	78	0 = coupled, 1 = L, 2 = R
Exciter Process	0 .. 100	79	0 .. 100
Exciter Tune	4 .. 12	80	0 .. 100
Super Bass Process	0 .. 100	81	0 .. 100
Super Bass Tune	50 .. 150	82	0 .. 100
Crossover	20 (Hz) .. 20 (kHz)	83	0 .. 30
Low Mute	-	84	0 = On, 1 = Mute
High Mute	-	85	0 = On, 1 = Mute
Store	-	86	0 .. 49
In / Out	-	87	0 = Out, 1 = In

Quickguide

Connect the analogue outputs of the signal source (e.g. playback unit or mixing console) to the left and right inputs of your ULTRAMIZER PRO. Connect the outputs of your DSP1424P to the analogue inputs of a recording device or a power amp. For use on single channels / subgroups on a mixing desk please refer to chapter 3.6 in the English manual.

▲ Power up the ULTRAMIZER PRO. The last selected preset will automatically be loaded.

▲ Run a signal into your mixing console and assign it to the L/R master out.

▲ The two IN LED chains of your DSP1424P show the input signal level in dB. Select the input sensitivity using the OPERATING LEVEL switch on the rear panel (-10 dBV semi-pro level used for home recording or the professional +4 dBu studio level). If in doubt, please refer to the manufacturer's data for the unit which is connected to the DSP1424P's inputs.

Setting the Max. Out Level

▲ Press the MAX. OUT LEVEL key and set the maximum output level using the JOG WHEEL. We suggest e.g. 0 dB as a brick wall limiter. Nothing will go over this level.

Setting the Ultramizer

☞ **When the EXCITER and SUPER BASS keys are pressed simultaneously, the crossover frequency between the lower and higher bands of the multiband compressor can be adjusted from 20 Hz to 20 kHz. If you need to, you can mute either low or high band by pressing the respective key for more than 2 seconds (all GR LEDs for the muted band will blink in time).**

▲ If you press the ULTRAMIZER key once, you have access to the parameter DENSITY. Use the JOG WHEEL to set this parameter. The higher the value, the more gain reduction is achieved.

▲ After pressing the ULTRAMIZER key a second time, the parameter SPEED can be set with the JOG WHEEL. Choose a slow speed (large value) when the Ultramizer must do its job inaudibly and high speed (small value) when fast recovery from transients is necessary.

▲ The parameter RANGE, which you access after pressing the ULTRAMIZER key a third time, determines the maximum gain the Ultramizer function will apply to the signal. The actual amount of gain being applied to the signal is also dependent on the Max. Out Level.

Setting the Exciter

▲ When the EXCITER key is pressed once you gain access to the PROCESS parameter. Use the JOG WHEEL to set the intensity of the Exciter effect between 0 and 100.

▲ When pressed twice you have access to the TUNE parameter. This is the lower frequency limit of the Exciter function. This can be set from 4 to 12 kHz using the JOG WHEEL.

Setting the Super Bass

▲ The Super Bass function is the low frequency equivalent of the Exciter function. After pressing the SUPER BASS key once, you can adjust the PROCESS parameter. Press this key again to TUNE the cut-off frequency. This is the highest frequency affected by the Super Bass function.

Setting 3D Surround

▲ First of all, ensure that couple mode is activated i.e. both LEFT and RIGHT keys are lit simultaneously. Do this by pressing and holding both of these keys together for a second or two. The depth of the 3D Surround function is determined by only the PROCESS parameter, which can be set using the JOG WHEEL.

Setting the Denoiser

▲ When the DENOISER key is pressed once, the THRESHOLD can be set. This function is used to remove unwanted noise. The higher the value, the more effective the denoiser.

▲ When the DENOISER key is pressed a second time you can edit the parameter SENSITIVITY. With this parameter you determine the sensitivity of the Denoiser.

Saving edits

▲ After editing, the flashing PRESET key reminds you that the preset settings have been changed but not saved yet. Press this key once. The display reads the current patch number. When pressed again, this number starts flashing. If you need to retain the original patch, use the JOG WHEEL to save to another patch, one which can be overwritten. Press the PRESET key a third time to save the edits to the selected patch.