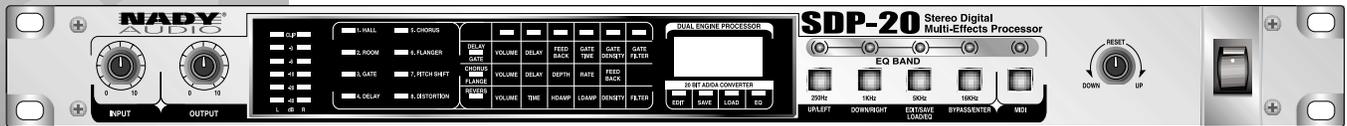


NADY[®] AUDIO

OWNER'S MANUAL

PROCESSOR

EFFECTS



SDP-20

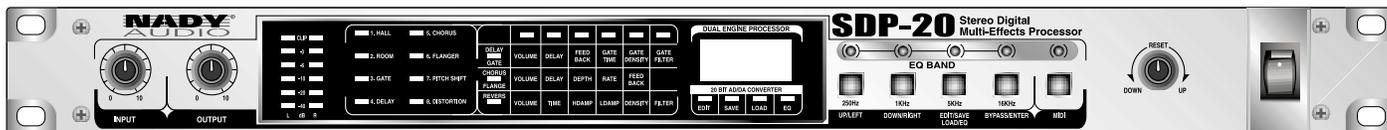
STEREO DIGITAL MULTI-EFFECTS PROCESSOR

SDP-20

Stereo/Dual Channel 256 preset Programmable Digital Effects Processor

NADY[®]

AUDIO



Congratulations on your choice of Digital Effects Processor — you have purchased one of the finest Digital Effects Processors on the market today. This unit was developed using the expertise of professional sound engineers and working musicians. You will find that your new NADY AUDIO SDP-20 has superior performance and greater flexibility than any other Digital Effects Processors in its price range. Please read this manual carefully to get the most out of your new unit.

Thanks for selecting NADY AUDIO as your choice in Digital Effects Processor.

FEATURES

An indispensable ally in numerous studio and stage applications, the versatile SDP-20 enables boundless creativity with its richly textured, complexly detailed algorithms.

- Powerful dual engine digital sound processor (DSP) offers a full complement of 256 of the latest and most useful breath-taking effects presets including room and hall reverbs, gates, delays/echoes, chorus/flanging/Leslie, pitch shifting, and overdrive/distortion.
- Intuitive and easy to operate—all parameters can be selected and/or edited (up to 6 editable parameters for each effect) via the jog wheel knob or external MIDI remote control (via MIDI nrpn messages) with 20 user program locations for personal edits storage
- 20 bit A/D and D/A converters with 64/128 times oversampling for ultra-high headroom and resolution
- Internal 20-bit processing with 46.875 kHz sampling rate for unsurpassed audio
- 4 band digital equalizer, programmable by push buttons and the jog wheel knob.
- Servo-balanced inputs and outputs with XLR and 1/4" TRS connectors.
- Full remote MIDI control of all functions and parameters
- 6 segment ultra-precise stereo input level LED display
- 3 Digit program and parameter LED display
- External effects control via rear panel 1/4" jack for changing preset program counter incrementally via optional external foot switch
- Selectable Bypass with rear panel 1/4" jack for optional external Bypass Foot switch
- Rugged construction for maximum long term reliability
- Shielded internal dual regulated power supply with ~115V(60Hz)/~230V(50Hz) select switch and fused IEC power cord connector

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Date of Purchase _____

Dealer's Name _____

City _____

State _____ Zip _____

Model # _____

Serial # _____

WARNING



An equilateral triangle enclosing a lightning flash/arrowhead symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure which may be of sufficient magnitude to constitute a risk of electric shock.



An equilateral triangle enclosing an exclamation point is intended to alert the user to the presence of important operating and service instructions in the literature enclosed with this unit.

IMPORTANT SAFETY INSTRUCTIONS

When using this electronic device, basic precautions should always be taken, including the following:

1. Read all instructions before using the product.
2. Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, etc.).
3. This product should be used only with a cart or stand that will keep it level and stable and prevent wobbling.
4. This product, in combination with headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be positioned so that proper ventilation is maintained.
6. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product. Replace the fuse only with one of the specified type, size, and correct rating.
8. The power supply cord should: (1) be undamaged, (2) never share an outlet or extension cord with other devices so that the outlet's or extension cord's power rating is exceeded, and (3) never be left plugged into the outlet when not being used for a long period of time.
9. Care should be taken so that objects do not fall into, and liquids are not spilled through, the enclosure's openings.
10. The product should be serviced by qualified service personnel if:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen into, or liquid has been spilled onto the product.
 - C. The product has been exposed to rain.
 - D. The product does not appear to operate normally or exhibits a marked change in performance.
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond what is described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.

INSTALLATION

To ensure years of enjoyment from your NADY AUDIO SDP-20, please read and understand this manual thoroughly before using the unit.

INSPECTION

Your SDP-20 was carefully packed at the factory in packaging designed to protect the units in shipment. Before installing and using your unit, carefully examine the packaging and all contents for any signs of physical damage that may have occurred in transit.

(Note: Nady Systems is not responsible for shipping damage. If the unit is damaged, do not return to us, but notify your dealer and the shipping company immediately to make a claim. Such claims must be made by the consignee in a timely manner.)

CONTENTS:

- Instruction manual
- SDP-20 (verify that the unit's serial number is same as shown on shipping carton)
- AC Power cord
- Warranty Card

RACK MOUNTING

The SDP-20 fits into one standard 19" rack unit of space (1 3/4"). Parts of the unit can become very warm during use. This is normal during operation. Care should be taken to ensure that there is enough space around the unit for cooling (at least 12" or 30cm). Do not place the SDP-20 on high temperature devices such as power amplifiers, etc., or the unit may overheat in operation. Also, do not place the unit on speakers as this may cause them to move and/or fall due to speaker vibrations.

Although the unit's chassis is shielded against radio frequency (RF) and electromagnetic interference (EMI), extremely high fields of RF and EMI should be avoided.

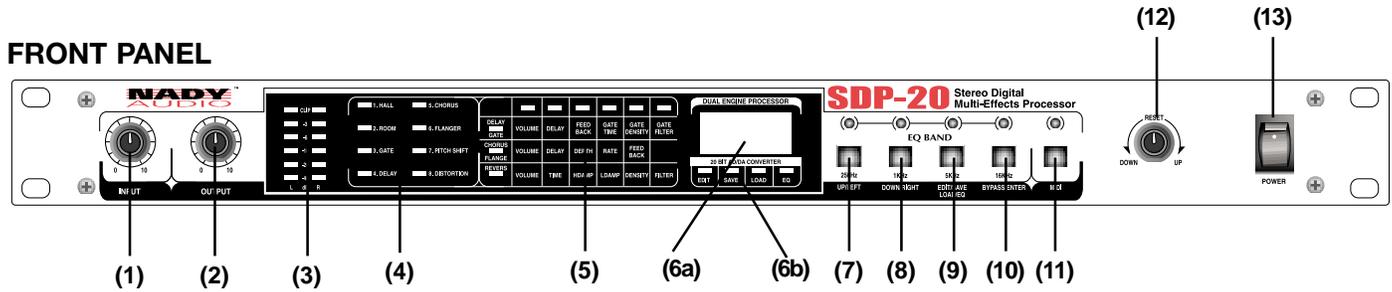
POWER CONNECTION

The SDP-20 has an internal power supply and is designed to operate from an external AC source. Power requirements for electrical equipment differ from area to area. Be sure to confirm that the voltage selected by the voltage selector switch on the back panel is proper for your area (120VAC/60 Hz or 230VAC/50Hz) per the information below:

Europe (except UK): 230V, 50Hz
UK and Australia: 240V, 50Hz
USA and Canada: 120V, 60 Hz
For other areas, please check with local authorities.

When ready to operate, plug the AC cord into the power source. Make sure that the unit is turned off before connecting to the AC power source to avoid possible loud transients which can damage your speakers or your ears, especially when monitoring with headphones.

CONTROLS AND CONNECTORS



1. INPUT GAIN CONTROL

Adjusts the input level of the audio signal to the unit.

2. OUTPUT LEVEL CONTROL

Adjusts the output signal from the unit to match the differing requirements of connected equipment.

3. INPUT LEVEL DISPLAY

6-segment stereo LED display indicates the level input to the unit.

4. EFFECT TYPE DISPLAY

8 LED display indicates which of 8 possible effect types has been selected.

5. PARAMETER DISPLAY

Each effect has up to 6 editable parameters. The effect type selected is indicated by the 3 LEDs in the column on the left side of this display. The LED above the 6 columns to the right indicates the editable parameter selected for the chosen effect. This display is only valid in EDIT MODE. When a specific LED in this display flashes, it indicates that the SDP-20 is in EDIT MODE and that the parameter indicated can be changed. Select the next editable parameter by pressing the **UP/LEFT (7)** key or choose the previous editable parameter by pressing the **DOWN/RIGHT (8)** key. The **VALUE ADJUSTMENT CONTROL (12)** is used to change parameters: UP to increase the parameter and DOWN to decrease it. The **PROGRAM/VARIATION DISPLAY (6)** indicates the parameter changes.

6a. PROGRAM/VARIATION DISPLAY

Whenever the SDP-20 is powered up, this displays the last chosen effect number. In use, the display indicates different alphanumeric information, depending on the mode selected.

- In NORMAL MODE it indicates which of the 255 effects (1-255) has been selected.
- In EDIT MODE it indicates the editable value of the parameter (0-127).
- In EQ MODE it indicates the editable value of the parameter (0-127).
- In SAVE MODE it indicates the address (1-20) being saved.
- In LOAD MODE it indicates address (1-20) being loaded.

6b. MODE DISPLAY

This indicates which of the MODES above is selected. Use the **EDIT/SAVE/LOAD/EQ SELECTOR & 5KHZ EQ SELECT KEY (9)** To select the MODE desired. When all the LEDs in this display are off the unit is in NORMAL MODE. Note that if the unit is left non operational for a while, it will enter NORMAL MODE by itself.

7. UP/LEFT & 250HZ EQ SELECT KEY

Use this key in NORMAL/EDIT/EQ MODE to select effect type, edit parameters, or edit EQ parameters. When the corresponding LED lights, the EQ parameters in this frequency range can be changed and the **PROGRAM/VARIATION DISPLAY (6a)** will indicate present value (64 = 0dB, 127 = +12dB and 0 = -12dB)

8. DOWN/RIGHT & 1KHZ EQ SELECT KEY

Use this key in NORMAL/EDIT/EQ MODE to select effect type, edit parameters, or edit EQ parameters. When the corresponding LED lights, the EQ parameters in this frequency range can be changed and the **PROGRAM/VARIATION DISPLAY (6a)** will indicate present value (64 = 0dB, 127 = +12dB and 0 = -12dB)

9. EDIT/SAVE/LOAD/EQ SELECTOR & 5KHZ EQ SELECT KEY

Use this key to change MODES. The MODE selected is indicated on the **MODE DISPLAY (6b)**. When the corresponding LED lights, the EQ parameters in this frequency range can be changed and the **PROGRAM/VARIATION DISPLAY (6a)** will indicate present value (64 = 0dB, 127 = +12dB and 0 = -12dB)

10. BYPASS/ENTER & 16KHZ EQ SELECT KEY

Use this key to turn effect on or off. With BYPASS selected (effect off), both the **EFFECT TYPE DISPLAY (4)** and the **PARAMETER DISPLAY (6a)** will be off and the **PROGRAM/VARIATION DISPLAY (6a)** will indicate "OFF". In SAVE/LOAD MODE, this functions as the confirm key (ENTER). (*Note: In OFF state, the EQ is not off and can still be edited.*) When the corresponding LED lights, the EQ parameters in this frequency range can be changed and the **PROGRAM/VARIATION DISPLAY (6a)** will indicate present value (64 = 0dB, 127 = +12dB and 0 = -12dB)

11. MIDI SELECT KEY

Use this key to select MIDI control mode. The corresponding LED indicator will light and the **PROGRAM/VARIATION DISPLAY (6a)** will display "256" to indicate that the unit is in MIDI control mode.

12. VALUE ADJUSTMENT CONTROL

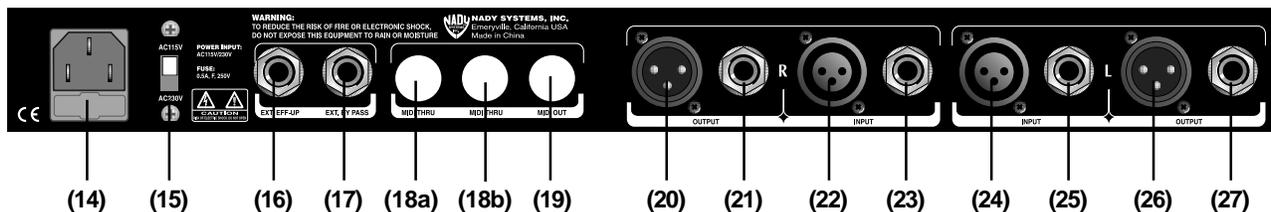
Use this control to select effects, edit effect parameters and edit EQ parameters.

13. POWER SWITCH

Use this switch to power unit ON or OFF. The integrated LED will light when the unit is ON. Before turning on this unit, verify connection to the proper voltage AC source, check all connections and turn down the level controls of equipment connected to the outputs.

CONTROLS AND CONNECTORS

REAR PANEL



14. AC POWER CORD IEC CONNECTOR WITH INTEGRATED FUSE HOLDER

This standard IEC power cord receptacle is used to connect the AC power to your unit. It features a built-in fuse holder for a 5X20mm, 0.5A/250V slow-blow fuse. If the fuse continuously blows, shut of the unit and have it serviced by qualified service personnel.

15. AC VOLTAGE SELECT SWITCH

Before plugging in the power cord, check to see that the unit is set for the proper voltage for your area: ~115V (60Hz) or ~230V (50Hz).

(Note: use at the improper voltage can damage your unit and void the warranty.)

16. PROGRAM INCREMENT FOOT SWITCH JACK

An optional external foot switch can also be connected to this jack and used to step through the preset programs incrementally one after the other. Contact your dealer or the **NADY SERVICE DEPARTMENT** (see back page of this manual) for availability.

17. BYPASS FOOT SWITCH JACK

An optional external foot switch can be connected to this jack and used to toggle the bypass mode ON/OFF successively. Contact your dealer or the NADY SERVICE DEPARTMENT (see back page of this manual) for availability.

18a. MIDI INPUT PORT

18b. MIDI THRU PORT

19. MIDI OUTPUT PORT

20. RIGHT CHANNEL XLR BALANCED OUTPUT

21. RIGHT CHANNEL 1/4" UNBALANCED OUTPUT

22. RIGHT CHANNEL XLR BALANCED INPUT

23. RIGHT CHANNEL 1/4" UNBALANCED INPUT

24. LEFT CHANNEL XLR BALANCED OUTPUT

25. LEFT CHANNEL 1/4" UNBALANCED OUTPUT

26. LEFT CHANNEL XLR BALANCED INPUT

27. LEFT CHANNEL 1/4" UNBALANCED INPUT

OPERATION

The following instructions will describe how to operate the SDP-20. For further detail on specific functions and controls, also consult the descriptions above (**CONTROLS AND CONNECTIONS**) as needed.

GETTING STARTED

Set the **INPUT VOLTAGE SELECT SWITCH (15)** for either ~115V(60Hz) or ~230V(50Hz) AC power. Attach the power cord and plug it in.

Connect the Input and Output signals from the SDP-20 to your audio system with the appropriate XLR balanced or 1/4" unbalanced **INPUT and OUTPUT JACKS (20 - 27)**, depending on the type of cable and connectors you're using.

Turn the **POWER SWITCH (13)** On. You will see the previously selected preset Program number on the **PROGRAM/VARIATION DISPLAY (6)**.

SELECTING AN EFFECT

There are 255 preset effects. Use the **EDIT/SAVE/LOAD/EQ SELECTOR & 5KHZ EQ SELECT KEY** to select the **NORMAL MODE**. This **MODE** indicated on the **MODE DISPLAY (6b)** when

all the 4 LEDs are off. See **PRESET PROGRAM LIST**, page 8. Chose between the main effect type desired using the **UP/LEFT & 250HZ EQ SELECT KEY (7)** to choose the previous effect type or the **DOWN/RIGHT & 1KHZ EQ SELECT KEY (8)** to select the next one. There are 8 main effect types that can be selected and the one chosen will light up the corresponding LED on the **EFFECT TYPE DISPLAY (4)**. Select the desired choice of the 255 presets by rotating the **VALUE ADJUSTMENT CONTROL (12)** clockwise to select a higher number effect and counterclockwise for a lower number effect. The **EFFECT TYPE DISPLAY (4)** and the **PROGRAM/VARIATION DISPLAY (6a)** will indicate the effect type and effect number selected. Note that all effects selected are preset to their default values. Effect parameters can be edited. (See **CUSTOM EFFECTS**, page 7)

OPERATION

An optional external foot switch can also be connected to the **PROGRAM INCREMENT FOOT SWITCH (16)** jack and used to step through the preset programs incrementally one after the other. Contact your dealer or the NADY SERVICE DEPARTMENT (see back page of this manual) for availability.

BYPASSING EFFECTS

Bypass the effects by pressing the front panel **BYPASS SWITCH (10)**. The PROGRAM/VARIATION DISPLAY indicates "OFF" when in bypass mode and all the LEDs in the **EFFECT TYPE DISPLAY (4)** and **PARAMETER DISPLAY (5)** will be off. When in BYPASS (effects off) MODE, the EQ MODE is not off and EQ parameters can be edited.

An optional external foot switch can be connected to the **BYPASS FOOT SWITCH (17)** jack and used to toggle the bypass mode ON/OFF successively. Contact your dealer or the **NADY SERVICE DEPARTMENT** (see back page of this manual) for availability.

ADJUSTING LEVELS

Adjust the **INPUT GAIN CONTROL (1)** for the highest setting without the red top L/R LED indicators of the **INPUT LEVEL DISPLAY (3)** staying on continuously. Occasional flickering of these red LED indicators is normal.

Adjust the **OUTPUT LEVEL CONTROL (2)** for the optimum level and minimum noise for driving the connected components of your sound system.

AUDIO EQUALIZER

The equalizer settings are independent of the preset program or custom program settings. The value of each frequency band is stored in non-volatile memory and is recovered when the unit is turned on. Values for each band can be set between 1 and 128 with the center at 64. For each effect selected, the EQ parameter can be edited and saved.

Select EQ mode using the **EDIT/SAVE/LOAD/EQ (9)** key. As you press the **KEY (9)** the corresponding LED will light and you will see the **MODE DISPLAY (6b)** change between functions. Select "EQ". The **UP (7)** and **DOWN (8)** buttons will select the specific EQ Band desired (250Hz, 1KHz, 5KHz, 16KHz). Adjust the level with the **VALUE ADJUSTMENT CONTROL (12)** (64 = 0dB, 127 = +12dB and 0 = -12dB). Press **BYPASS/ENTER KEY (10)** to confirm changes and return to NORMAL MODE. *(Note that if the unit is left non operational for a while, it will enter NORMAL MODE by itself).*

CUSTOM EFFECTS

Custom effects are modified preset effects. There are 20 locations for storing custom effects. The Save and Load functions of the **EDIT/SAVE/LOAD/EQ (9)** key provide write and read of the custom non-volatile memory location.

To capture and edit the preset value:

Choose a preset effect similar to the desired effect. Cycle the **EDIT/SAVE/LOAD/EQ (9)** key to the "EDIT" mode. The **UP (7)** and **DOWN (8)** buttons will select the variable field: Volume, Delay, Feed Back, Time, Density, or Filter. Use the

VALUE ADJUSTMENT CONTROL (12) to modify the variable to the desired sound. The **PROGRAM/VARIATION DISPLAY (6a)** will indicate the corresponding value. Note that the edited parameters can apply to the present state of the effect selected or saved as custom values.

To save the modified values in a custom location:

Cycle the **EDIT/SAVE/LOAD/EQ (9)** key to the "SAVE" mode as indicated by the **MODE DISPLAY (6b)**. Use the **VALUE ADJUSTMENT CONTROL (12)** to select the custom storage location 1 thru 20 as indicated by the flashing **PROGRAM/VARIATION DISPLAY (6a)**. Press the **ENTER (10)** key to store the custom effect and return to the NORMAL MODE. *(Note that if the unit is left non operational for a while, it will enter NORMAL MODE by itself).*

To recall a custom effect:

Cycle the **EDIT/SAVE/LOAD/EQ (9)** key to the "LOAD" mode as indicated by the **MODE DISPLAY (6b)**. Use the **VALUE ADJUSTMENT CONTROL (12)** to select the custom storage location 1 thru 20 indicated by the flashing **PROGRAM/VARIATION DISPLAY (6a)**. Press the **ENTER (10)** key and return to the NORMAL MODE. *(Note that if the unit is left non operational for a while, it will enter NORMAL MODE by itself).*

Auto-save function:

If the unit is turned off after changing parameters or values during operation (including selected effects, effect parameters, EQ values, etc.), its auto save function will automatically retain these changes for the next time the unit is powered on, even if the user does not save them.

REMOTE CONTROL USING MIDI

- 1) Use the DRFX.exe application on a PC. The application controls the sound card "Game Port", 15 pin D-sub connector. The application can be downloaded from the Nady.com web site.
- 2) Connect the PC to the SDP-20 MIDI IN connector via interconnect cable. The MIDI interconnect cable is available from Nady.
- 3) Push the front panel switch **MIDI (11)** to allow remote control.
- 4) Launch the application on the PC. Adjust the software slider controls for desired sound.

PRESET PROGRAM LIST

HALL PRESETS REVERB

HALL: large hall

#	Name	
1	HALL1	1.0s
2	HALL1	1.2s
3	HALL1	1.5s
4	HALL1	1.8s
5	HALL1	2.0s
6	HALL1	2.2s
7	HALL1	2.5s
8	HALL1	2.8s
9	HALL1	3.0s
10	HALL1	3.5s
11	HALL1	4.0s
12	HALL1	4.5s
13	HALL1	5.0s
14	HALL1	6.0s
15	HALL1	8.0s
16	HALL1	10.0s

HALL HIDAMP

large half w/high frequency filter on decay

17	HALL1 HIDAMP	1.0s
18	HALL1 HIDAMP	1.2s
19	HALL1 HIDAMP	1.5s
20	HALL1 HIDAMP	1.8s
21	HALL1 HIDAMP	2.0s
22	HALL1 HIDAMP	2.2s
23	HALL1 HIDAMP	2.5s
24	HALL1 HIDAMP	2.8s
25	HALL1 HIDAMP	3.0s
26	HALL1 HIDAMP	3.5s
27	HALL1 HIDAMP	4.0s
28	HALL1 HIDAMP	4.5s
29	HALL1 HIDAMP	5.0s
30	HALL1 HIDAMP	6.0s
31	HALL1 HIDAMP	8.0s
32	HALL1 HIDAMP	10.0s
33	ROOM	0.5s
34	ROOM	0.8s
35	ROOM	1.0s
36	ROOM	1.2s

HALL HIDAMP

large half w/high frequency filter on decay

37	ROOM	1.5s
38	ROOM	1.8s
39	ROOM	2.0s
40	ROOM	2.2s
41	ROOM	2.5s
42	ROOM	2.8s
43	ROOM	3.0s
44	ROOM	3.2s
45	ROOM	3.5s
46	ROOM	3.8s
47	ROOM	4.0s
48	ROOM	4.2s
49	ROOM HIDAMP	0.5s
50	ROOM HIDAMP	0.8s
51	ROOM HIDAMP	1.0s
52	ROOM HIDAMP	1.2s
53	ROOM HIDAMP	1.5s
54	ROOM HIDAMP	1.8s
55	ROOM HIDAMP	2.0s
56	ROOM HIDAMP	2.2s
57	ROOM HIDAMP	2.5s

HALL HIDAMP

large half w/high frequency filter on decay

58	ROOM HIDAMP	2.8s
59	ROOM HIDAMP	3.0s
60	ROOM HIDAMP	3.2s
61	ROOM HIDAMP	3.5s
62	ROOM HIDAMP	3.8s
63	ROOM HIDAMP	4.0s
64	ROOM HIDAMP	4.2s

HALL PRESETS REVERB

HALL: medium size room

#	Name	
65	HALL2	1.0s
66	HALL2	1.2s
67	HALL2	1.5s
68	HALL2	1.8s
69	HALL2	2.0s
70	HALL2	2.2s
71	HALL2	2.5s

HALL PRESETS REVERB

72	HALL2	2.8s
73	HALL2	3.0s
74	HALL2	3.5s
75	HALL2	4.0s
76	HALL2	4.5s
77	HALL2	5.0s
78	HALL2	6.0s
79	HALL2	8.0s
80	HALL2	10.0s

ROOM HIDAMP

medium size room w/high frequency filter on decay

81	HALL2 HIDAMP	1.0s
82	HALL2 HIDAMP	1.2s
83	HALL2 HIDAMP	1.5s
84	HALL2 HIDAMP	1.8s
85	HALL2 HIDAMP	2.0s
86	HALL2 HIDAMP	2.2s
87	HALL2 HIDAMP	2.5s
88	HALL2 HIDAMP	2.8s
89	HALL2 HIDAMP	3.0s
90	HALL2 HIDAMP	3.5s
91	HALL2 HIDAMP	4.0s
92	HALL2 HIDAMP	4.5s
93	HALL2 HIDAMP	5.0s
94	HALL2 HIDAMP	6.0s
95	HALL2 HIDAMP	8.0s
96	HALL2 HIDAMP	10.0s

PRESET PROGRAM LIST

GATE PRESETS

#	Name	
97	Low density forward gate	100 ms
98	Low density forward gate	150 ms
99	Medium density forward gate	200 ms
100	Medium density forward gate	250 ms
101	High density forward gate	300 ms
102	High density forward gate	350 ms
103	High density forward gate	400 ms
104	High density forward gate	450 ms
105	High density forward gate	500 ms
106	Low density reverse gate	100 ms
107	Low density reverse gate	150 ms
108	Medium density reverse gate	200 ms
109	Medium density reverse gate	250 ms
110	High density reverse gate	300 ms
111	High density reverse gate	350 ms
112	High density reverse gate	400 ms
113	High density reverse gate	450 ms
114	High density reverse gate	500 ms
115	Medium density left to right gate	500ms
116	High density left to right gate	500ms

DELAY/ECHO PRESETS

#	Name
117	3/4 time echo
118	3/4 time panned echo
119	4/4 time echo 1
120	4/4 time panned echo 1
121	4/4 time echo 2
122	4/4 time panned echo 2
123	Triplet
124	Panned triplet
125	Single delay 20ms
126	Single delay 25ms
127	Single delay 30ms
128	Single delay 35ms
129	Single delay 40ms
130	Single delay 45ms
131	Single delay 50ms
132	Single delay 55ms
133	Single delay 60ms
134	Single delay 65ms
135	Single delay 70ms
136	Single delay 75ms
137	Single delay 80ms
138	Single delay 85ms
139	Single delay 90ms
140	Single delay 95ms
141	Single delay 100ms
142	Single delay 125ms
143	Single delay 150ms
144	Single delay 175ms
145	Single delay 200ms
146	Single delay 225ms
147	Single delay 250ms
148	Single delay 300ms
149	Single delay 350ms
150	Single delay 400ms
151	Single delay 450ms
152	Single delay 500ms
153	Single delay 550ms
154	Single delay 600ms
155	Single delay 650ms
156	Single delay 700ms
157	Regen 20% delay 100ms

DELAY/ECHO PRESETS

158	Regen 20% delay 125ms
159	Regen 20% delay 150ms
160	Regen 20% delay 175ms
161	Regen 20% delay 200ms
162	Regen 20% delay 225ms
163	Regen 20% delay 250ms
164	Regen 20% delay 300ms
165	Regen 20% delay 350ms
166	Regen 20% delay 400ms
167	Regen 20% delay 450ms
168	Regen 20% delay 500ms
169	Regen 20% delay 550ms
170	Regen 20% delay 600ms
171	Regen 20% delay 650ms
172	Regen 20% delay 700ms
173	Regen 40% delay 100ms
174	Regen 40% delay 125ms
175	Regen 40% delay 150ms
176	Regen 40% delay 175ms
177	Regen 40% delay 200ms
178	Regen 40% delay 225ms
179	Regen 40% delay 250ms
180	Regen 40% delay 300ms
181	Regen 40% delay 350ms
182	Regen 40% delay 400ms
183	Regen 40% delay 450ms
184	Regen 40% delay 500ms
185	Regen 40% delay 550ms
186	Regen 40% delay 600ms
187	Regen 40% delay 650ms
188	Regen 40% delay 700ms
189	Panning delay 100ms
190	Panning delay 100ms regen
191	Panning delay 200ms
192	Panning delay 200ms regen
193	Panning delay 300ms
194	Panning delay 300ms regen
195	Panning delay 350ms
196	Panning delay 350ms regen
197	Panning delay 400ms
198	Panning delay 400ms regen
199	Panning delay 450ms
200	Panning delay 450ms regen

PRESET PROGRAM LIST

CHORUS PRESETS

#	Name
201	Chorus light depth 1
202	Chorus light depth 2
203	Chorus medium depth 1
204	Chorus medium depth 2
205	Chorus high depth 1
206	Chorus high depth 2
207	Chorus fast 1
208	Chorus fast 2
209	Fast chorus with long delay
210	Quad chorus high feedback
211	Quad chorus resonant
212	Quad chorus medium depth
213	Quad chorus high depth
214	Deep stereo flanger
215	Leslie slow
216	Leslie fast
217	Chorus + Delay 1
218	Chorus + Delay 2
219	Chorus + Delay 3
220	Chorus + reverb 1
221	Chorus + reverb 2
222	Chorus + reverb 3

DISTORTION PRESETS

#	Name
252	Low distortion
253	Medium distortion 1
254	Medium distortion 2
255	High distortion

NO SOUND

#	Name
256	No sound

FLANGING PRESETS

#	Name
223	Light depth flanger 1
224	Light depth flanger 2
225	Stereo light depth flanger
226	Medium depth flanger
227	Stereo medium depth flanger
228	Medium depth slow flanger
229	High depth flanger
230	Stereo high depth flanger
231	Flanging + Reverb 1
232	Flanging + Reverb 2
233	Flanging + Reverb 3

PITCH SHIFTER PRESETS

#	Name
234	Up M3rd/Down 4th
235	Up m3rd/Down 4th
236	Up M3rd/Downaug4th
237	Up 4th detune
238	Down 4th detune
239	Up 5th detune
240	Down 5th detune
241	Down M6th detune
242	Down m6th detune
243	Down M2nd/Down 4th
244	Up oct/Down oct
245	Up oct detune
246	Down oct detune
247	Light detune
248	Deep detune
249	Doubler
250	Detune + regen delay
251	Down oct + regen delay

SPECIFICATIONS

ANALOG AUDIO INPUTS

Connectors XLR and 1/4" jack
Type RF filtered, servo balanced input
Impedance 60 k Ohms balanced, 30 k Ohms unbalanced

ANALOG AUDIO OUTPUTS

Connectors XLR and 1/4" jack
Type Electronically servo-balanced output stage
Impedance 60 Ohms balanced, 30 Ohms unbalanced

SYSTEM SPECIFICATIONS

Bandwidth 20 Hz to 20 kHz, +0/-3 dB
Noise > 94 dBu, unweighted, 20 Hz to 20 kHz

MIDI INTERFACE

Type 5-Pin-DIN-Socket, IN / OUT / THRU

DIGITAL PROCESSING

A/D & D/A Converters 20-bit Sigma-Delta, 64/128-times oversampling
Sampling Rate 46.875 kHz

DISPLAYS

Type 3-digit alphanumeric LED display and individual status LED indicators

POWER SUPPLY

Power requirement Selectable, ~100-120VAC, ~200-240VAC, 50-60 Hz
Power Consumption Max. 10 Watts
Fuse 100-120 VAC: 630 mA (slow-blow)
200-240 VAC: 315 mA (slow-blow)
100-240 VAC: 500 mA (slow-blow)
5X20mm glass type
Power cord connector Standard IEC receptacle with built-in fuse holder

PHYSICAL

Dimensions 1.75" x 19" x 7.5" (44.5 x 483 x 191mm)
Weight 7.5 lbs (3.40Kg)

The specifications above are correct at the time of printing of this manual. For improvement purposes, all specifications for this unit, including design and appearance, are subject to change without prior notice.

LEGAL INFORMATION

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SERVICE FOR YOUR NADY AUDIO PRODUCT

(U.S.) Should your NADY AUDIO product require service, please contact the Nady Service Department via telephone at (510) 652-2411, or e-mail at service@nady.com.

(International) For service, please contact the NADY AUDIO distributor in your country through the dealer from whom you purchased this product.

DO NOT ATTEMPT TO SERVICE THIS UNIT
YOURSELF AS IT CAN BE DANGEROUS AND
WILL ALSO VOID THE WARRANTY.



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