

Anima
REFERENCE GUIDE
&
WARRANTY INFORMATION

[Revision: 2.1]

DEAR CREATIVE PROFESSIONAL...

THANK YOU for investing in the Prodigy Engineering Anima, the 8-channel remote-controllable microphone pre-amplification system.

Anima is the result of years of study, new research, real-world experience, and passionate engineering. Anima has been designed without the slightest compromise in quality to provide the finest audio amplification and distinctive sonic character in a reliable and powerful package.

I wish you great success and hope that you enjoy your new investment!

Chae H. Ham
Principal Design Engineer
Prodigy Engineering

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General Safety Guidelines

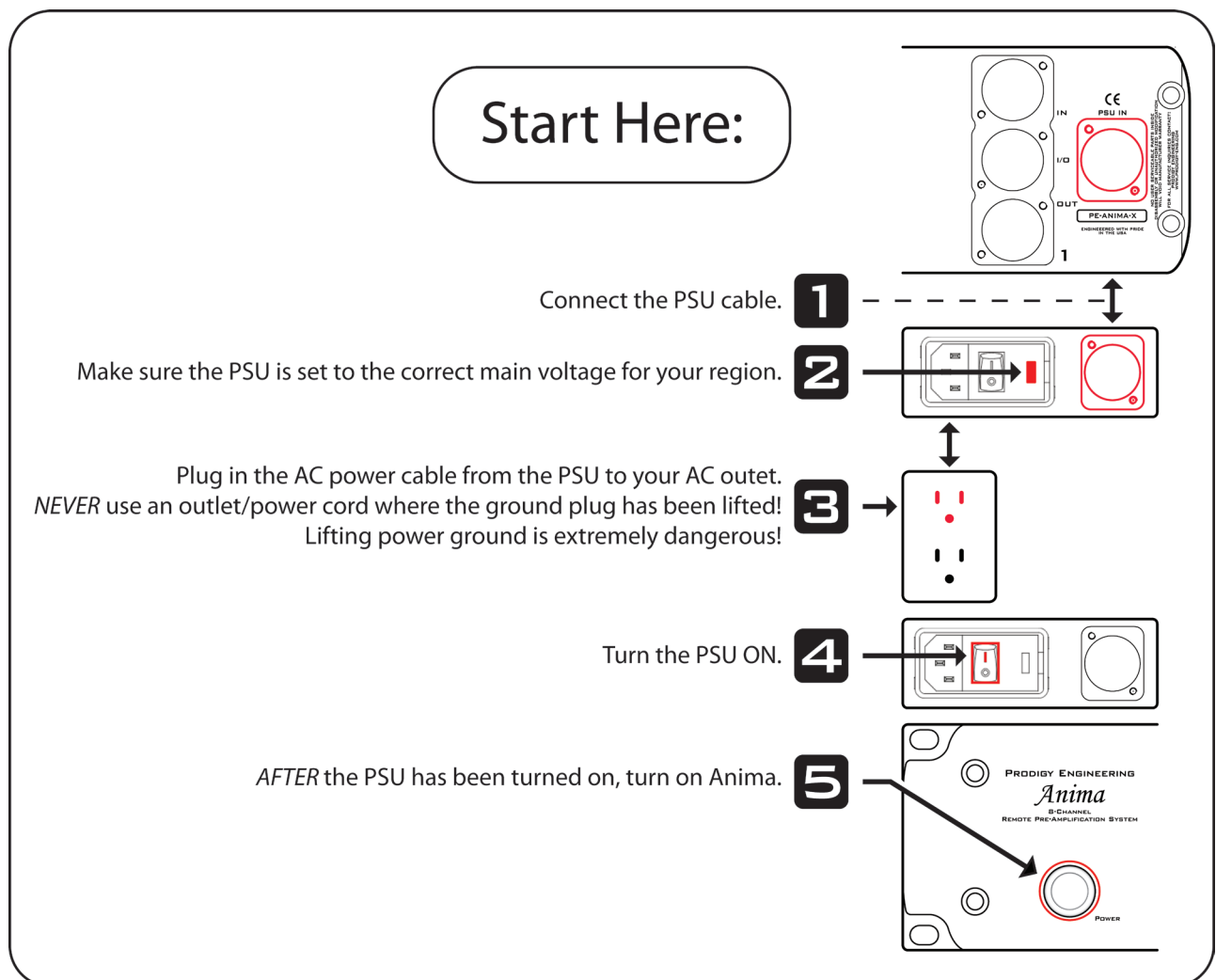
- 1) **Read Instructions:** Carefully read all instructions regarding the proper use of this product.
- 2) **Water and Moisture:** This product should be operated and stored in a cool and dry environment. Operation of this product near water or in environments that have high levels of humidity may lead to premature failure.
- 3) **Ventilation:** Install this product in a cool and well-ventilated area such that the top and bottom ventilation openings are not obstructed.
- 4) **Temperature:** This product should ideally be operated at room temperature or cooler (40°-75° F)
- 5) **Grounding:** Care should be taken to ensure that the ground plug on the AC power cord is not damaged or defeated. Deliberately removing or lifting this safety ground is extremely dangerous!
- 6) **Cabling:** Ensure that all cables are in good condition. Cables or connectors with obvious damage (exposed inner wires/frayed ends/etc.) should be repaired or replaced immediately.
- 7) **Servicing:** Contact Prodigy Engineering for ALL service inquiries. Servicing of this device shall be performed only by Prodigy Engineering personnel. There are no user-serviceable parts inside. Disassembly by a third-party is strictly prohibited and will void the manufacturer warranty. Failure to comply may lead to limited future technical support from Prodigy Engineering.

OVERVIEW

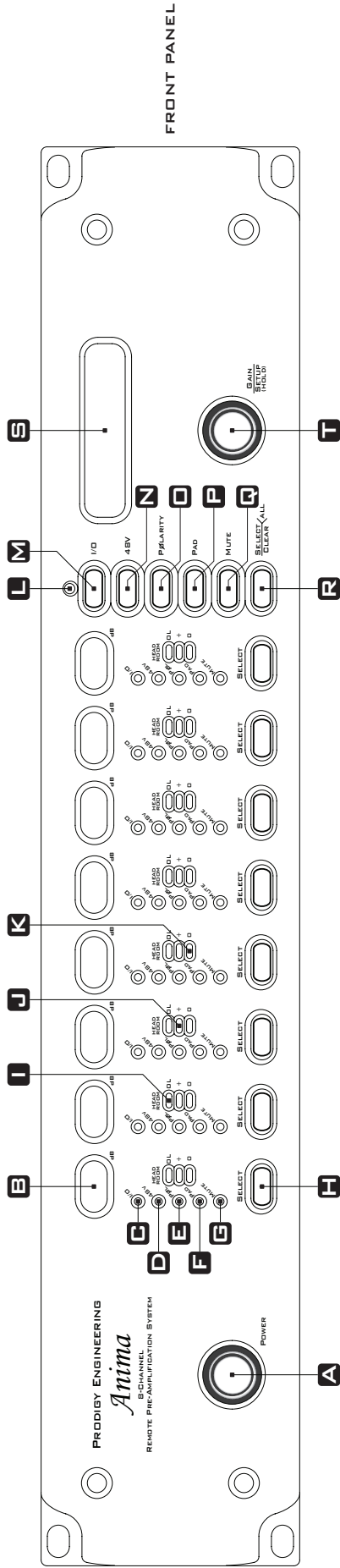
The Prodigy Engineering Anima is an uncompromised, high-quality 8-channel preamp with a fully analog signal path. Although the Anima is rich in useful features, basic operation is just as easy as using a conventional preamp, and in some ways more ergonomic.

Included in this package:

- Anima
- Power Supply Unit (PSU)
- Power Supply Cable
- Ethernet Cable
- USB Cable
- AC Power Cord
- Reference Guide

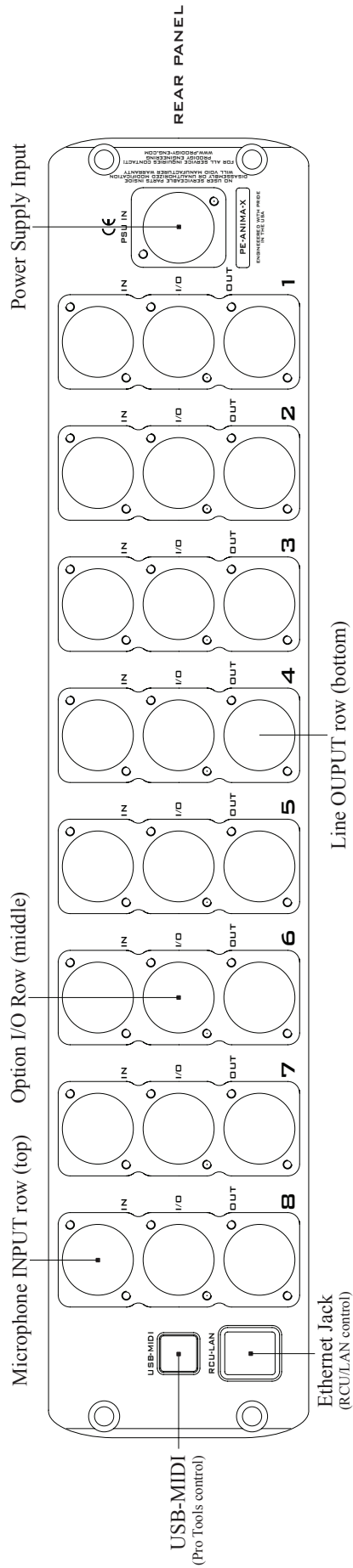


The Power Supply Unit (PSU) should be located as far away from the Anima as possible for optimal noise performance. Take care not to obstruct any of the ventilation openings on the top and/or bottom of the Anima and PSU. If the Anima will be mounted in a rack, allow sufficient space (1RU) for air to freely travel above and below the unit--LET IT **BREATHE!** Following these guidelines will ensure the longest operational life of your investment.



FRONT PANEL

- A** Power (On/Off) Switch
Turns Anima on/off
- B** 7-Segment Gain/Channel Indicator
- C** I/O LED Indicator
- D** Phantom Power LED Indicator
- E** Polarity LED Indicator
- F** Pad LED Indicator
- G** Mute LED Indicator
- H** Channel Select Switch
- I** Headroom Meter (OL) LED Indicator
- J** Headroom Meter (+) LED Indicator
- K** Headroom Meter (0) LED Indicator
- L** LCD Contrast Adjustment Trim Pot
Adjust LCD contrast w/ small flathead screwdriver
- M** I/O Switch
Switches input source to the optional middle row. This switch is inactive on stock Anima units without any options installed.
- N** Phantom Power (+48V) Switch
Toggles +48V on/off at the mic pre input
- O** Polarity Switch
Toggles polarity from 0° (in-phase) to 180° (reverse phase)
- P** Pad Switch
Engages -22dB attenuator at input of mic preamp (Pad not available in Hi-Z or DPA input modes)
- Q** Mute Switch
Mutes preamp channel
- R** Select/Clear All Selections Switch
Pressing when no channels are selected selects all channels. Pressing again or when channels are selected, clears all selections.
- S** LCD Screen
- T** Rotary Encoder & Push Switch
A selected channel's gain can be changed by turning the rotary encoder. Pushing and holding the encoder inward will enter the SETUP menu.



REAR PANEL

.:BASIC OPERATION:.

Channel Selection: Channels are selected/deselected by pressing the **SELECT** switch. A selection is indicated by a blinking decimal point to the bottom right of the 7-segment display. In order to change gain or to switch features (**48V/POLARITY/PAD/MUTE**) on/off, one or more channels must be selected.

The **SELECT/CLEAR ALL** switch may also be used to select/deselect all channels at once.

Changing Gain: The selected channel(s) gain can be increased/decreased by turning the rotary encoder. As a convenient feature once a channel is selected, by briefly pressing the encoder inward, one can quickly move the channel selection to the next channel (i.e, from channel 1 to 2, then 3 and so on...)

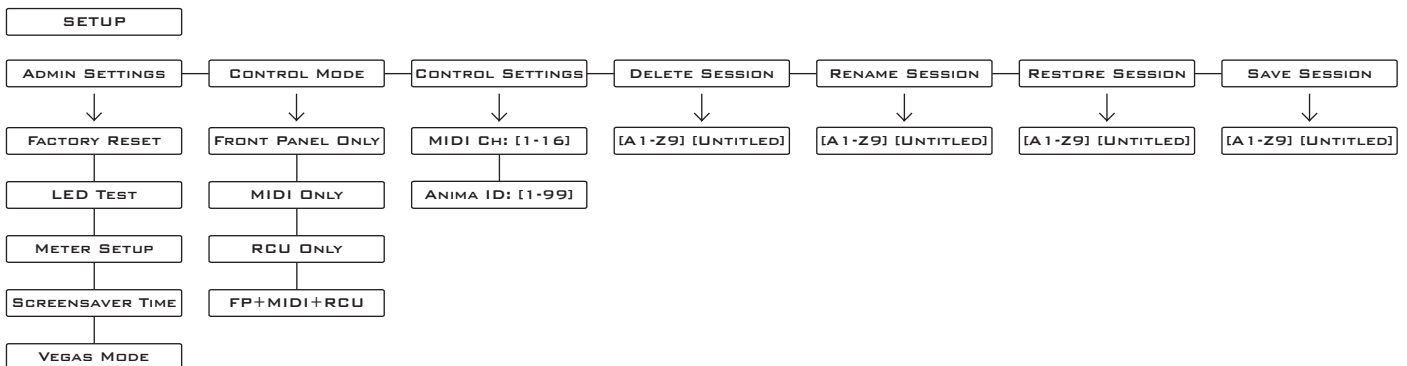
Status Display: To view the current status settings of the Anima one can do so at a glance by briefly pushing the encoder inward while no channels are selected. Doing so will display the preamp channel numbers on the 7-segment displays. The LCD will display the control mode, MIDI channel, and Anima ID. [*Further details can be found in the 'Advanced Features' section*].

.:ADVANCED FEATURES:.

Setup Menu: Advanced features are accessed through the setup menu. To enter the setup menu, press inward on the rotary encoder and hold for a few seconds. The top of the LCD should show: "SETUP" indicating that the **setup menu** has been entered.

- Moving through the **setup menu** is done by turning the rotary encoder.
- A brief push of the encoder allows one to advance to the next underlying menu selection.
- Pressing inward and holding the encoder will confirm selections such as saving/restoring sessions, or changing the control mode, etc.
- Pressing the **CLEAR/SELECT ALL** switch will exit the current menu position without saving any changes.

Setup Menu Tree:



.:ADVANCED FEATURES CONTINUED [1]:.

>ADMIN SETTINGS:

FACTORY RESET	Restores factory default settings and deletes all stored sessions. The user is asked to confirm the action before all sessions are deleted.
LED TEST	Turns all LEDs on so that user may verify that they are working correctly.
METER SETUP	Allows user to change LED meter level thresholds. By default meters are set to (the Red OL threshold cannot be adjusted): Green 0 = 0dBu Yellow + = +18dBu Red OL = +24.5dBu
SCREENSAVER TIME	Time before the LCD backlight turns off from inactivity By default this is set to 10 minutes.
VEGAS MODE	Just for fun :o)

>CONTROL MODE:

FRONT PANEL ONLY	Allows only front panel controls to be operational. MIDI and RCU commands are ignored.
MIDI ONLY	Allows only MIDI commands to control the Anima. RCU commands are ignored. All front panel controls are ignored except the ability to enter the setup menu with the encoder (allowing one to change to another mode if desired). This mode is equivalent to “Front Panel Lockout” in Pro Tools.
RCU ONLY	Allows only the RCU control of the Anima. MIDI is ignored. All front panel controls are ignored except the ability to enter the setup menu with the encoder (allowing one to change to another mode if desired)
FP+MIDI+RCU	Anima responds to all methods of control. RCU takes priority over all other methods of control. The Anima defaults to this control mode.

>CONTROL SETTINGS:

MIDI CHANNEL	Sets the MIDI channel from 1-16. Anima defaults to MIDI channel 1.
ANIMA ID	This is used to identify the each Anima to the RCU in a multi-Anima setup. The Anima ID also determines preamp channel numbers [<i>refer to status display in the Basic Operation section</i>]; for instance, Anima ID 1 (the default setting) would determine the channels to be 1-8, Anima ID 2 would make the status display show 9-16, and so on.

.:ADVANCED FEATURES CONTINUED [2]:.

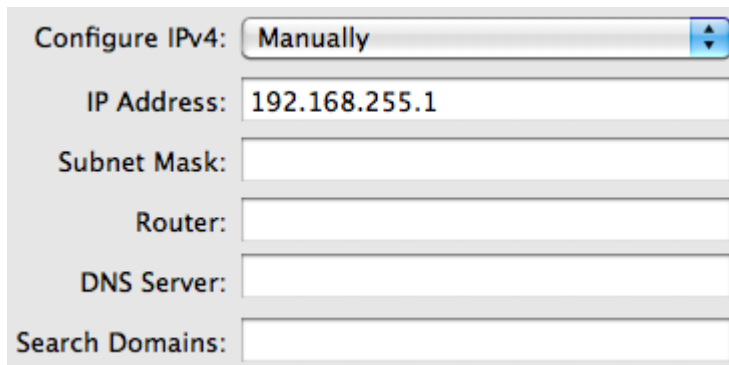
- >DELETE SESSION:** Used for deleting any previously saved session, except the default session: "A0 DEFAULT"
- >RENAME SESSION:** Used for renaming any previously saved session.
- >RESTORE SESSION:** Used for restoring a previously saved session.
- >SAVE SESSION:** Used for saving current settings to the archive bank from A1-Z9 and name the session using up to 8 characters. Session A0 is reserved as the default session. Session A0 may be restored to quickly clear out any current session settings.

.:ANIMA SOFTWARE RCU OPERATION:.

All of the front panel controls of the Anima can be controlled remotely by using the Anima RCU application. This application is only compatible with Mac OSX Snow Leopard.

RCU Software Setup for 1 Anima:

- 1) Download the latest version of the RCU software from the download section at: www.prodigy-eng.com/products.html (Do not open the application yet).
- 2) Using the included CAT5e cable, insert one end into the RCU/LAN port on the Anima rear panel, then insert the other end into your mac's Ethernet port.
- 3) Open Network Preferences [> Applications > System Preferences > Network]
- 4) Click the "+" button in the bottom left corner of the window to add a new network connection.
- 5) From the interface pull-down menu, select "Ethernet" and in the text field below rename the connection: **Anima RCU**, then click the CREATE button.
- 6) Select Anima RCU from the left column.
- 7) In the "Configure IPv4" field, use the pull-down menu to select: **Manually**
- 8) Enter IP address: 192.168.255.1 then click the APPLY button on the bottom right.
Your settings should match the photo below:



Configure IPv4:	Manually
IP Address:	192.168.255.1
Subnet Mask:	
Router:	
DNS Server:	
Search Domains:	

- 8) Select the Anima you wish to control by going to the menubar in the top left corner of the screen [> Control > Select Anima > Anima ID]. For more information about **Anima ID**, review page 10.

RCU Software Setup for 2 or More Anima:

A network switch like the *Netgear FS105* is required for a multi-Anima setup.

- 1) Connect the Mac and all Anima to the switch ports.
- 2) Set unique Anima IDs for each Anima (refer to **CONTROL SETTINGS** on page 10)
- 3) Finish setup by following steps 3-8 above.

For additional help view the
setup tutorial video online:
WWW.PRODIGY-ENG.COM/SUPPORT.HTML

.:PRO TOOLS OPERATION:.

Anima is controllable from within Pro Tools HD (and compatible control surfaces like the ICON D-Command® and D-Control®) via MIDI as if it were the Avid PRE®.

The only adjustments that may need to be made on the Anima are to **Control Mode** and/or **MIDI Channel**.

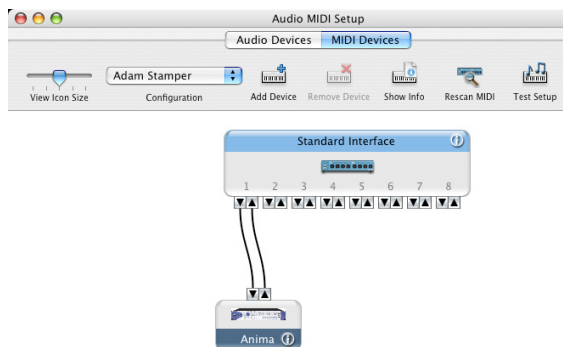
By default, Anima is ready for MIDI control and is set to:

Control Mode: FP+MIDI+RCU and MIDI Channel: 1

- 1) Connect the Anima's MIDI IN and MIDI OUT ports to your computer's MIDI interface. If you have a newer Anima that has a USB port, a MIDI interface is not needed. Simply connect the USB cable from the Anima to the computer and go to step (6).
- 2) Connect the audio outputs of the Anima to the audio inputs of your Pro Tools HD interface.
- 3) Launch Pro Tools®.
- 4) Launch **Audio MIDI Setup** (Mac) or **MIDI Studio Setup** (Windows)
(Pro Tools menu: Setup > MIDI > MIDI Studio)

For Mac OSX users

- a) From the MIDI Devices tab of **Audio MIDI Setup** choose **Add Device**
- b) Double Click on the New External Device that has just been created.
- c) Set Manufacturer = Avid, Model = Anima then click **Apply** and close the device window
- d) Make the virtual connections in Audio MIDI Setup to connect your MIDI interface to the Anima as shown below, then close Audio MIDI Setup.



For Windows users

- a) In **MIDI Studio Setup** choose **Create**
- b) Set Manufacturer = Avid, Model = PRE
- c) Rename the Instrument to: **Anima**
- d) Set the Input and Output Ports to match those from step 2.

For additional help view the setup tutorial video online:
WWW.PRODIGY-ENG.COM/SUPPORT.HTML

- 6) Set up the Anima as a Peripheral in Pro Tools (Pro Tools menu: Setup > Peripherals)
 - a) In the **Mic Preamps** tab of the **Peripherals** window, set type #1 to: PRE
 - b) Set **Receive From** and **Send To** according to the MIDI channel set on the Anima (by default the Anima is set to MIDI Channel 1)
- 7) Assign 8-channels of Anima in I/O Setup (Pro Tools menu: Setup > I/O)
 - a) In the **Mic Preamps** tab of the I/O setup window, assign PRE #1 to the audio interface inputs you used in Step 2. For example, assign all 8 channels of the Anima to the first 8 inputs of a **192I/O**
- 8) In the Mix/Edit window, change the display options to show **Mic Preamps**. You should now be able to control Anima from the mic pre controls in Pro Tools. (Note: not all of Anima's features are controllable from Pro Tools. Pro Tools limits the smallest gain step to be 3dB. Additionally, nether high-pass-filter (HPF) or insert is available on Anima and therefor those commands will be ignored).

..OPTIONS:

By default the Anima ships without any options installed on the middle row [*refer to the rear panel diagram*]. The following options are available to be factory installed at any time at an additional cost. Options may be mixed and matched on an Anima. Please contact Prodigy Engineering for pricing and details.

HI-Z INPUTS	High impedance input option to add DI functionality to one or more channels (up to 8)
130V DPA INPUTS	130V microphone input option to power the unique high voltage microphones offered by DPA (up to 8)
PARALLEL OUTPUTS	Adds 1 identical line output for each channel (up to 8) adding the flexibility of having two line output signals per channel
PSU RACK PANEL	With this rack panel one can mount up to 4 Anima PSU in a 1U Rack space. (Available for purchase online: www.prodigy-eng.com)

.:TECHNICAL SPECIFICATIONS:.

Gain:

18 – 70dB in 1dB steps

Bandwidth:

5Hz to >200kHz

Frequency Response: (@ 18dB gain, 150Ω Source, 600Ω Load):

+/- 0.2dB from 10Hz - 24kHz

+/- 0.5 dB from 10Hz - 90kHz

Total Harmonic Distortion + Noise (@ 18dB Gain, 1kHz 0dBu signal, 150Ω Source, 100kΩ Load):

0.0009%

Slew Rate:

+/- 20V/uS

Common Mode Rejection Ratio:

96dB @ 60Hz

Absolute phase deviation (@1kHz):

<0.25 degrees

Inter-channel phase deviation (@1kHz):

< 0.02 degree

Mic Input Impedance:

1760Ω

Hi-Z (option) Input Impedance:

>1MΩ

Output Impedance:

82Ω

Power Consumption:

50 Watts Max

Fuse:

For Mains Voltages 100-120V = **2A/250V Slow-Blow**

For Mains Voltages 220-240V = **1A/250V Slow-Blow**

Dimensions:

Anima: 19" x 11" x 3.47" (2U)

Power Supply: 10.75" X 4.25" X 1.7" (up to 4 PSU rackmountable in 1U rack)

Weight:

Total shipping weight: 36lbs

::LIMITED WARRANTY::

- 1) Prodigy Group, LLC (Prodigy Engineering) warrants this product to be free of defects in workmanship for a period of 2 years from date of purchase.
- 2) During this warranty period, Prodigy Engineering will repair or replace (at its sole discretion) any failure due to defects in workmanship or defective components.
- 3) Customer must register the product within 10 days of purchase (from the date on receipt) to validate this warranty. Register online at: WWW.PRODIGY-ENG.COM/SUPPORT.HTML
Unregistered owners requesting warranty service may be denied unless a dated receipt can be produced.
- 4) This warranty excludes the following conditions:
 - a. Damage caused by misuse or obvious physical abuse
 - b. Cosmetic blemishes
 - c. Damage resulting from shipping
 - d. Normal wear-and-tear
 - e. Damage resulting from unauthorized disassembly, modification and/or repair.
- 5) Under no circumstances will Prodigy Engineering be held liable for lost profits that result from malfunction or damage.
- 6) Warranty will become VOID if the product is disassembled/modified by any party that does not have direct written authorization from Prodigy Engineering.
- 7) Customer is responsible for all shipping costs to deliver the product to Prodigy Engineering for warranty service. Accordingly, Prodigy Engineering will pay for return shipping.

TO OBTAIN WARRANTY SERVICE

If the customer suspects that warranty repair service may be required, contact Prodigy Engineering immediately to receive further instruction on how to proceed. Do not attempt to return any merchandise before contacting Prodigy Engineering. Customers outside the US should first contact their local authorized distributor.

THE WARRANTY SET FORTH ABOVE IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. PRODIGY ENGINEERING DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF PRODIGY ENGINEERING CANNOT LAWFULLY DISCLAIM IMPLIED WARRANTIES UNDER THIS LIMITED WARRANTY, ALL SUCH WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. NO PRODIGY ENGINEERING RESELLER, AGENT, OR EMPLOYEE IS AUTHORIZED TO MAKE ANY MODIFICATION, EXTENSION, OR ADDITION TO THIS WARRANTY.

Before contacting Prodigy Engineering for service, please have the following information ready:

Date of Purchase: _____

Dealer: _____

Product Name: _____

Serial Number: _____

.:APPENDIX:.

USB ground loops and potential noise:

When any USB device is connected to the host computer (directly or through a hub), an undesirable ground loop is created between the USB device and the host computer that may lead to increased noise. In some instances, the noise may even radiate into nearby unbalanced connections (guitar amps, passive speakers, etc).

To minimize the possibility of noise, we recommend you use the USB cable that was supplied with Anima. **DO NOT** remove the amber colored tape on the end of the USB connector. This tape isolates the shield/ground connection to effectively “lift” the ground and eliminate the potential ground loop.

If the tape eventually comes off or you wish to use another USB cable, applying any general purpose clear tape once around the connector will do the trick. Carefully cut the tape to size, and neatly wrap it around the connector just once.

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