

**CHANNEL**

Master preamp & input processor



- Patented RPA tube preamp
- EasyRider<sup>®</sup> Class A automatic compressor
- Patented logic-assisted gate
- Universal de-esser
- Patented Aphex Aural Exciter<sup>®</sup> and Big Bottom<sup>®</sup> processors
- S/PDIF and AES/EBU digital outputs

| Mic Input                 |   |
|---------------------------|---|
| Connector                 | XLR-3F  |
| Type                      | Transformerless, NPN active balanced, tube second stage |
| Input Z                   | 2k ohms nominal   |
| Maximum Input Level (MIL) | +25dBu  |
| CMRR                      | >70 dB @ 60 Hz  |
| Nominal Preamp Gain       | 20 to 65 dB   |
| Phantom Power / Pad / EIN | +48VDC / 20dB / -127dBu (input shorted)                 |
| Tube Type                 | 12AT7/ECC81 Dual Triode                                 |

| Output               |   |
|----------------------|---|
| Connector            | XLR-3M and 1/4" TRS phone jacks   |
| Type                 | XLR is Impedance Balanced (may be used unbalanced)<br>TRS is unbalanced |
| Out Z Balanced       | XLR 66 ohms   |
| Out Z Unbalanced     | XLR 33 ohms TRS 600 ohms  |
| Nominal Level        | XLR +4dBu TRS -10dBV  |
| Maximum Output Level | +25dBu Unloaded<br>TRS +11dBV   |

| Big Bottom |                 |
|------------|-----------------|
| Frequency  | 50 Hz to 280 Hz |
| Tune       | Off to +12dB    |

| Other Specifications     |  |
|--------------------------|--|
| Power requirements       | 90-250 VAC 50-60 Hz 12W  |
| Dimensions               | 19"W x 1.75"H x 8.25" D 1 Rack U<br>(482.6mm x 44.5mm x 209.6mm) |
| Depth Behind Front Panel | 7.5" (190.5mm)   |
| Net Weight               | 6 lbs (2.73 kg)  |
| Shipping Weight          | 9 lbs (4.1 kg)   |

**124B TWO CHANNEL LEVEL INTERFACE**

Two channel audio level interface



- Allows use of consumer (-10dBv) gear with pro (+4 or +8dBm) systems
- Two-way buffer so consumer and pro systems can operate properly
- Acts as a signal splitter, providing two high quality balanced outs from an unbalanced "Y" connector

| Audio             |                            |
|-------------------|----------------------------|
| Bandwidth         | 5Hz - 100 kHz (+0, -0.5dB) |
| Dynamic Range     | 99 dB                      |
| THD               | 0.005                      |
| Channel Isolation | > 70dB                     |
| CMRR (typical)    | > 45 dB                    |

| Input                     |   |
|---------------------------|---|
| IHF Input Connectors      | RCA Jacks   |
| IHF Input Impedance       | 18 k Ohms   |
| IHF Input Level           | -10 dBV; peak +15dBV (ref. 1V)                        |
| Balanced Input Connectors | XLR 3-pin Female                                      |
| Balanced Input Impedance  | 100k Ohms with front panel 600 ohm termination switch |
| Balanced Input Level      | +4 dBm (+8dBm via internal jumpers); peak +30 dBm     |

| Output                     |   |
|----------------------------|---|
| IHF Output Connectors      | RCA Jacks                                       |
| IHF Output Impedance       | 150 Ohms  |
| IHF Output Level           | -10 dBV, peak +18dBV (ref. 1V)                  |
| Balanced Output Connectors | XLR 3-pin Male                                  |
| Balanced Output Impedance  | 65 ohms   |
| Balanced Output Level      | +4dBm Front panel adjustable ± 6dB, peak +25dBm |

| Other Specifications |   |
|----------------------|---|
| Power requirements   | 100, 120, 220, OR 240 VAC, 50-60Hz                        |
| Dimensions           | 1.75"H x 8.25"W x 7.25" D<br>(44.5mm x 209.5mm x 184.2mm) |
| Net Weight           | 3.5 lbs (1.6 kg)  |

**141B EIGHT CHANNEL D TO A**

Eight channel ADAT to analog converter



- 44.1k and 48k operation
- Independent output level trim adjustments
- Plug and play operation

| Specifications     |  |
|--------------------|--|
| Max Input          | 0 dB FS  |
| Max Output         | +24dBu   |
| THD+Noise          | -100dB   |
| Dynamic Range      | 114dB  |
| Trim Range         | 12 dB  |
| Jitter             |  |
| Power Consumption  | 10 Watts                                       |
| Frequency Response | 20 Hz - 20 kHz +/-0.5 dB                       |
| Size               | 1 RU, 1/2 Rack Width 1.75"H x 8.5" W x 7.25" D |
| Weight             | 3.5 lbs  |
| Connectors         | Toslink<br>DB25 TASCAM format                  |

**120B DISTRIBUTION AMP**

Servo balanced audio distribution amplifier



- 1 input/4 output with output trim adjustments
- Transformerless design for wide, flat frequency response
- Works for audio or time code

| Audio             |                                   |
|-------------------|-----------------------------------|
| Frequency Respons | 5Hz - 100 kHz (+0, -0.5dB)        |
| Dynamic Range     | 94 dB                             |
| Hum and Noise     | Better than -90 dBm at unity gain |
| THD               | 0.002% @ +4dBm, 0.005% @ +20dBm   |
| IMD               | 0.002% @ +10dBm                   |
| Channel Isolation | 70dB                              |
| Slew Rate         | 13 V/usec                         |

| Input          |  |
|----------------|--|
| Connector      | XLR 3-pin Female                             |
| Type           | Transformerless, differential servo balanced |
| Impedance      | 100k ohms balanced                           |
| Maximum Level  | +25 dBm                                      |
| CMRR (typical) | > 45 dB                                      |

| Output            |  |
|-------------------|--|
| Connector         | XLR 3-pin Male                                   |
| Impedance         | 65 ohms  |
| Maximum Level     | +25dBm into 600 ohms balanced, +21dBm unbalanced |
| Output Gain Range | ±15 dB   |

| Other Specifications |   |
|----------------------|---|
| Power requirements   | 100, 120, 220, OR 240 VAC, 50-60Hz                        |
| Dimensions           | 1.75"H x 8.25"W x 7.25" D<br>(44.5mm x 209.5mm x 184.2mm) |
| Net Weight           | 3.5 lbs (1.6 kg)  |

## EXCITER

Aural Exciter & Optical Big Bottom



- Increased presence and clarity
- Greater perceived loudness
- Improved detail and intelligibility
- Extended low frequencies
- Tighter bass articulation

| Audio                                |                        |
|--------------------------------------|------------------------|
| Frequency Respons                    | 10Hz - 38 kHz(± 0.5dB) |
| Dynamic Range                        | 120 dB                 |
| Hum and Noise(unweighted 22Hz-22kHz) | -93 dBu                |
| Crosstalk(10 Hz - 22kHz)             | -79 dB                 |
| THD(10 Hz - 22kHz at max. output)    | .0003%                 |
| IMD(10 Hz - 22kHz at max. output)    | .0007%                 |

| Input         |                                  |                                  |
|---------------|----------------------------------|----------------------------------|
|               | IF LEVEL SET TO +4 dBu           | IF LEVEL SET TO -10dBv (-7.8dBu) |
| Connector     | XLR-3F and 1/4" TRS Phone Jacks  | same                             |
| Type          | Transformerless, active balanced | same                             |
| Balanced      | 40k ohms                         | same                             |
| Unbalanced    | 20k ohms                         | same                             |
| Maximum Level | +27 dBu                          | +12.5 dBV (+14.8 dBu)            |
| CMRR          | >40 dB                           | same                             |

| Output        |   |
|---------------|---|
| Connector     | XLR-3M and 1/4" TRS Phone Jacks         |
| Type          | Active balanced(may be used unbalanced) |
| Balanced      | 112 ohms                                |
| Unbalanced    | 56 ohms                                 |
| Maximum Level | +27dBu Unloaded; +25 into 600 ohms      |

| Other Specifications |   |
|----------------------|---|
| Power requirements   | 90-250 VAC 50-60 Hz 12W                                       |
| Dimensions           | 19"W x 1.75"H x 8.25" D 1 Rack U (482.6mm x 44.5mm x 209.6mm) |
| Net Weight           | 6 lbs(2.73 kg)  |
| Shipping Weight      | 9 lbs(4.1 kg)   |

## 320D COMPELLOR

Stereo audio level controller



- Delivers transparent audio level control for broadcast, recording and live sound
- Balanced analog input and output
- AES digital input and output
- Dual mono or stereo operation

| Audio                                |                        |
|--------------------------------------|------------------------|
| Frequency Respons                    | 10Hz - 38 kHz(± 0.5dB) |
| Dynamic Range                        | 120 dB                 |
| Hum and Noise(unweighted 22Hz-22kHz) | -93 dBu                |
| Crosstalk(10 Hz - 22kHz)             | -79 dB                 |
| THD(10 Hz - 22kHz at max. output)    | .0003%                 |
| IMD(10 Hz - 22kHz at max. output)    | .0007%                 |

| Input         |                                  |                                  |
|---------------|----------------------------------|----------------------------------|
|               | IF LEVEL SET TO +4 dBu           | IF LEVEL SET TO -10dBv (-7.8dBu) |
| Connector     | XLR-3F and 1/4" TRS Phone Jacks  | same                             |
| Type          | Transformerless, active balanced | same                             |
| Balanced      | 40k ohms                         | same                             |
| Unbalanced    | 20k ohms                         | same                             |
| Maximum Level | +27 dBu                          | +12.5 dBV (+14.8 dBu)            |
| CMRR          | >40 dB                           | same                             |

| Output        |   |
|---------------|---|
| Connector     | XLR-3M and 1/4" TRS Phone Jacks         |
| Type          | Active balanced(may be used unbalanced) |
| Balanced      | 112 ohms                                |
| Unbalanced    | 56 ohms                                 |
| Maximum Level | +27dBu Unloaded; +25 into 600 ohms      |

| Other Specifications |   |
|----------------------|---|
| Power requirements   | 90-250 VAC 50-60 Hz 12W                                       |
| Dimensions           | 19"W x 1.75"H x 8.25" D 1 Rack U (482.6mm x 44.5mm x 209.6mm) |
| Net Weight           | 6 lbs(2.73 kg)  |
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## HEADPOD 4

High output headphone amplifier



- 4 independent stereo power amplifiers for ultra low crosstalk and efficiency
- Doesn't load down existing headphone outputs, improving their sound
- Durable metal construction, sleek design and small size
- Analog and digital inputs with top panel selector

### Features:

- Professional Monitoring for ALL headphone types
- Individual volume controls
- High headroom (no clipping at high headphone levels)
- Durable metal jacks
- Ultra low distortion & wide frequency response
- Master volume to match source level
- Ultra low crosstalk
- Works from any analog source
- S/PDIF Input
- Top panel input selection
- Listen longer with less fatigue
- Overcomes limitations of typical headphone outputs
- Four independent stereo power amplifiers
- Small size travels easily

| Specifications     |  |
|--------------------|--|
| Input Z            | Bal: 20kW / Unbal: 10kW                                    |
| Output Z           | 10W  |
| Max Input Level    | +24dBu   |
| Frequency Response | 10Hz - 120kHz +/- 1 dB                                     |
| SNR (Typical)      | 100 dB   |
| Crosstalk dB       | -80 @ 1kHz, -70 @ 10kHz                                    |
| Max Gain           | 35 dB  |
| THD+N, 1kHz        | <.001%, 100mW into 25W                                     |
| SMPTE IMD          | <.001%, 100mW into 25W                                     |
| Weight             | 16 oz. (0.45kg)  |
| Dimensions         | 5.5" W x 1.9" H x 4.5" D / 13.8cm W x 4.8cm H x 11.4cm D   |
| External Power     | 12 VDC, 1000mA<br>5.5mm x 2.1mm Power Jack<br>Positive Tip |

## IN 2

Powerful Desktop USB Interface for the Home Studio



- 2 Class A microphone preamps
- 2 DI instrument inputs
- 75Hz HPF, -20dB Pad, 48V Phantom power per channel
- Aphex optical compressors built into each channel
- Output level control with dim and mono buttons
- High-performance headphone amp
- 24-bit/192kHz A/D and D/A
- S/PDIF and MIDI I/O

| Analog Inputs             |  |
|---------------------------|--|
| Connector                 | XLR-3F   |
| Type                      | Transformerless, Instrumentation first stage, Class-A second stage |
| Input Z                   | 2k ohms nominal  |
| Maximum Input Level (MIL) | -2dBu (+18dBu with pad)  |
| CMRR                      | >80dB @ 60Hz   |
| Instrument Connectors     | 1/4" TS  |
| Instrument Input Z        | 10Mohm nominal   |
| Preamp Gain Range         | 38dB without pad   |
| Phantom Power             | +48VDC   |
| Pad                       | 20dB   |
| Compressor                | Fixed parameters, Aphex custom optical element                     |
| High Pass Filter          | 75Hz nominal cutoff, 2nd order                                     |

| Outputs                       |  |
|-------------------------------|--|
| Connector                     | 1/4" TRS phone jacks   |
| Type                          | True Balanced (may be used unbalanced)   |
| Output Z                      | 100 ohms   |
| SNR (typical)                 | 109dB, unweighted  |
| THD+N (typical)               | 0.002%   |
| Nominal level                 | +4dBu  |
| Maximum Output Level          | >21dBu before clipping   |
| Headphone Out                 |  |
| Output Z                      | 10 ohms  |
| Output Power                  | >800mW into 25 ohms  |
| Digital Audio                 |  |
| Samples Rates                 | 44.1KHz, 48KHz, 88.2KHz, 96KHz, 176.4KHz, 192KHz   |
| Resolution                    | 24 bit   |
| Minimum Computer Requirements | Mac OSX 10.5 and higher, Windows XP SP3 (32-bit) Windows Vista SP2, Windows 7 SP1 (32/64-bit), Windows 8/8.1 |