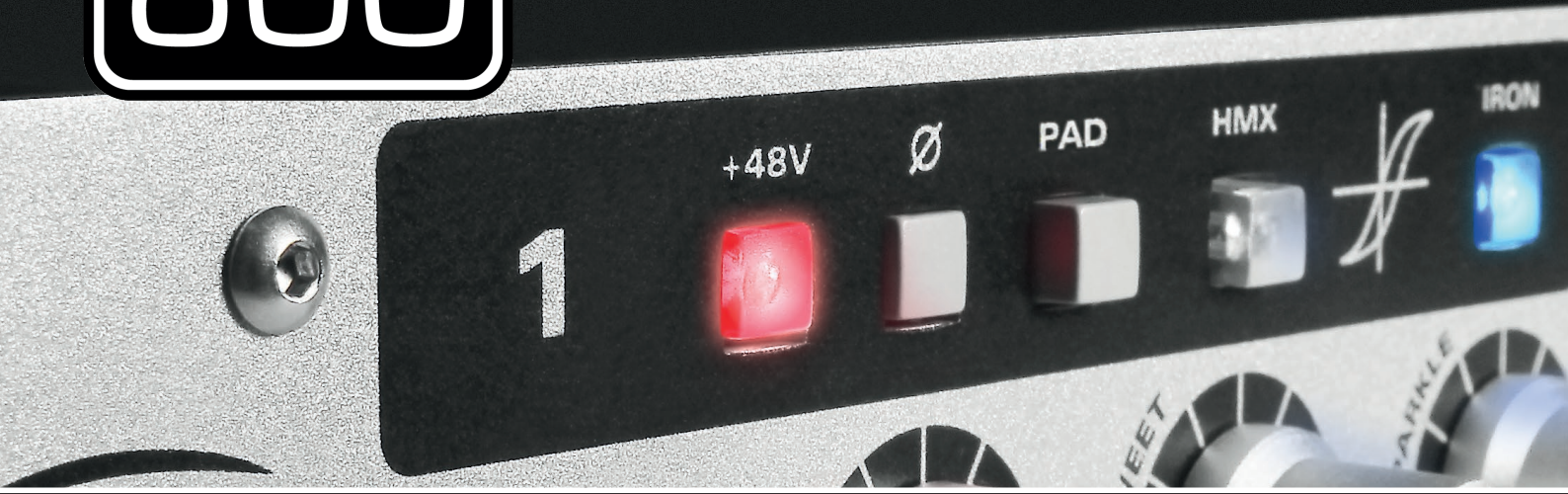


asp 800

8-

HMX IRON



1.2

Audient!

ASP800

ASP800 -

• 8

A

(PAD) -15

ASP800 8

Audient,

Burr-Brown, 2 DI-
JFET RETRO

XLR/TRS 1/4"

RETRO
HMX
IRON

ASP800

• 2

JFET.

• 2

RETRO
- HMX IRON

ADAT SMUX

RETRO 1 2
2

DB25.

48

HMX IRON.

HMX IRON,

70

1960-

1970-

Burr-Brown PCM4204
ADAT SMUX

96

116

ASP800 -

HMX

IRON

230

100, 120, 220

1

3

5

7

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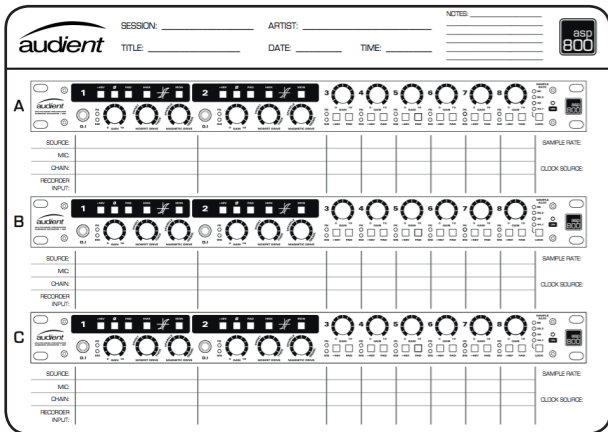


ASP800

• ASP800

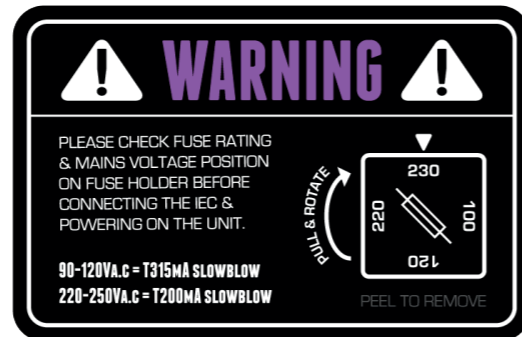
IEC

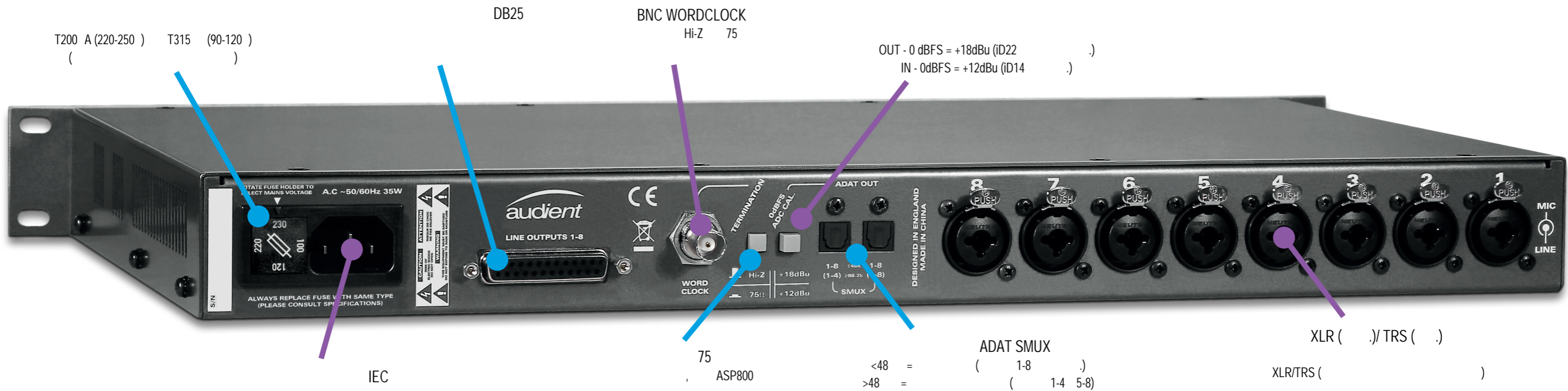
www.audient.com/products/asp800/downloads,



-100 (), 120 (), 220 () 230 ()

ASP800,





ASP800,

ASP800.



ASP800

www.audient.com/support

1U

90 250

50-60

- 1.
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- 15.

CE Audient Ltd CE ID22,

RoHS 2002/95/EC Audient Ltd (RoHS).



ASP800 8

ASP8024,

A,
18



8



XLR/ TRS 1/4",

> 8),

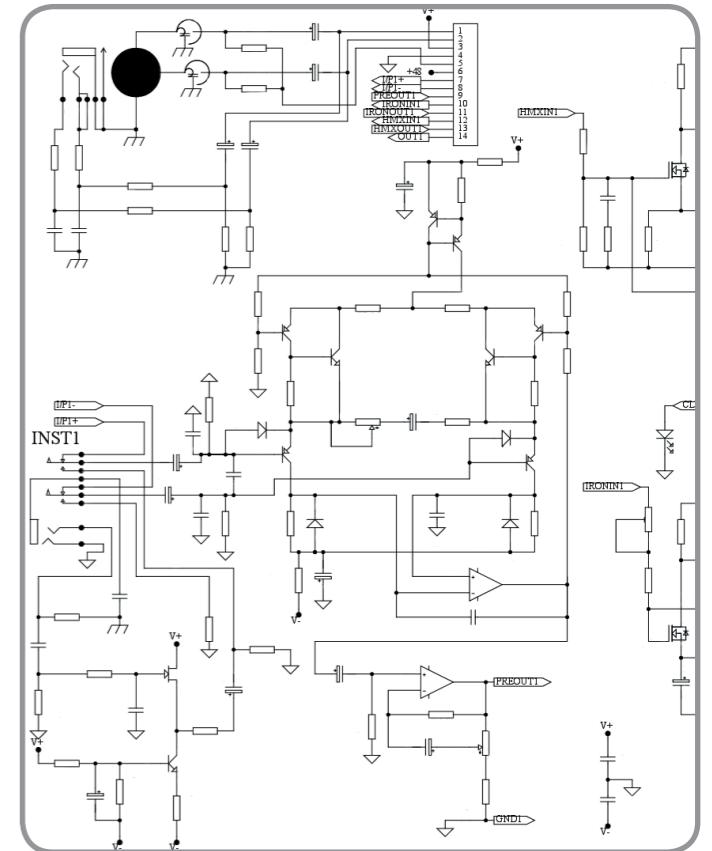
(10),

2

(2- 3-),

1

, Pad - 15 ,
HMX IRON.



DI- JFET)
 (ASP800 JFET)
 (1 2).
 JFET?
 JFET - p-n
 JFET
 (1012),
 6000 40000
 10
 400
 1 !



DI- ASP800
 1

JFET
 2- 3-
 , ASP800
 HMX IRON!

ASP800
 +48
 (Pad) -15

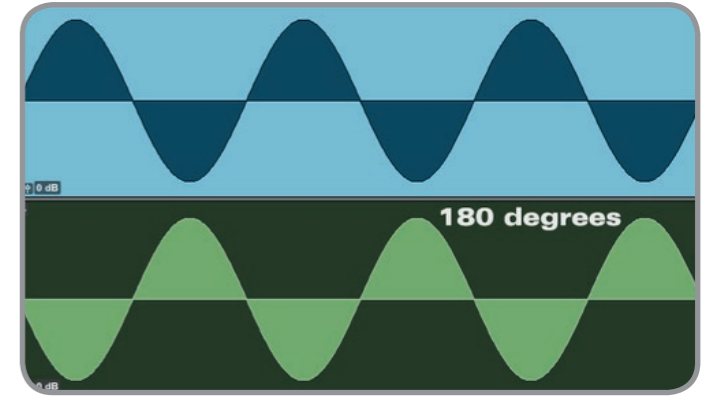
1.

2.

3. PAD -15

ASP800
 -15

15



+48V.

180 =

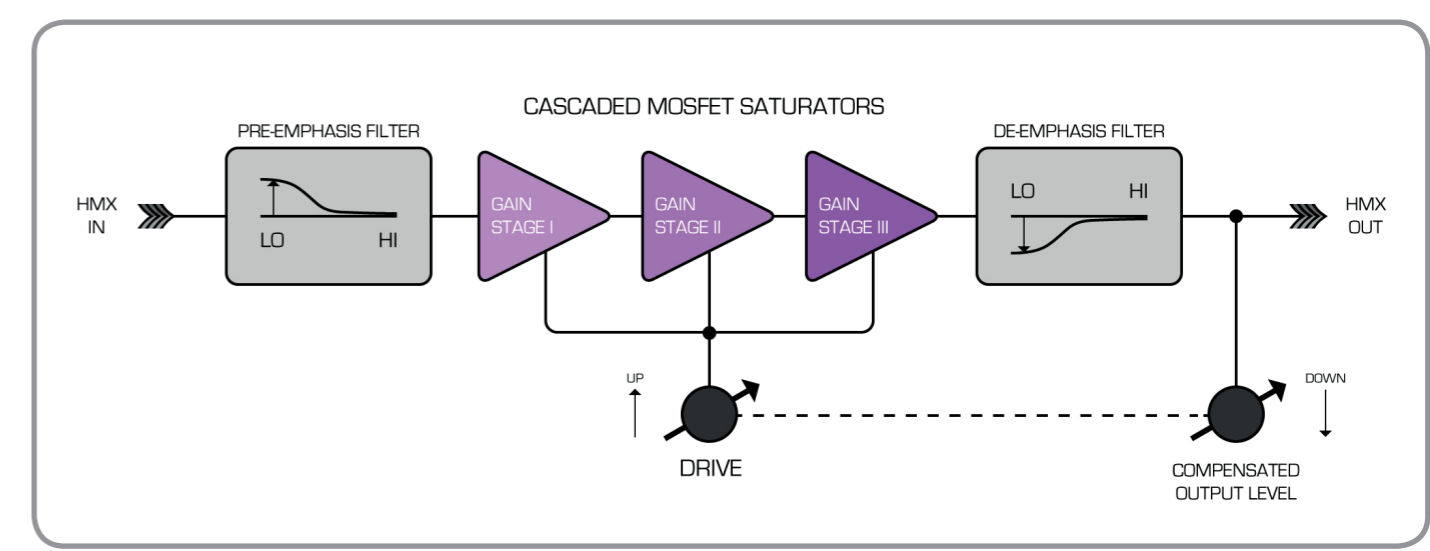
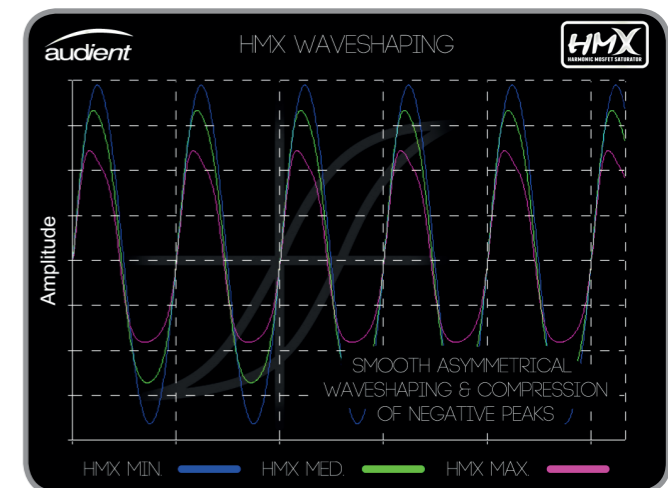
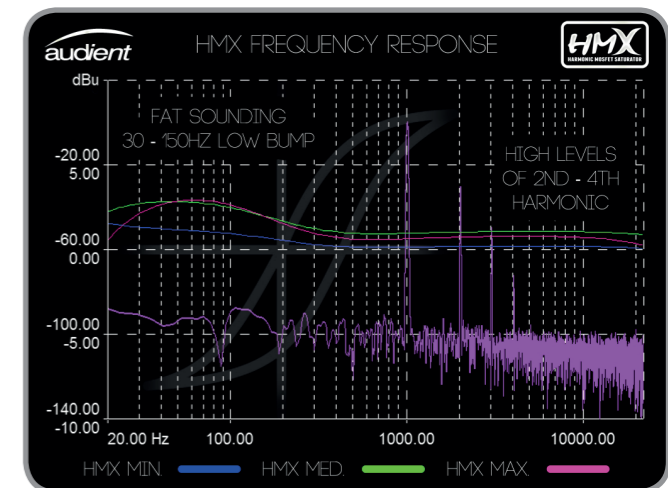
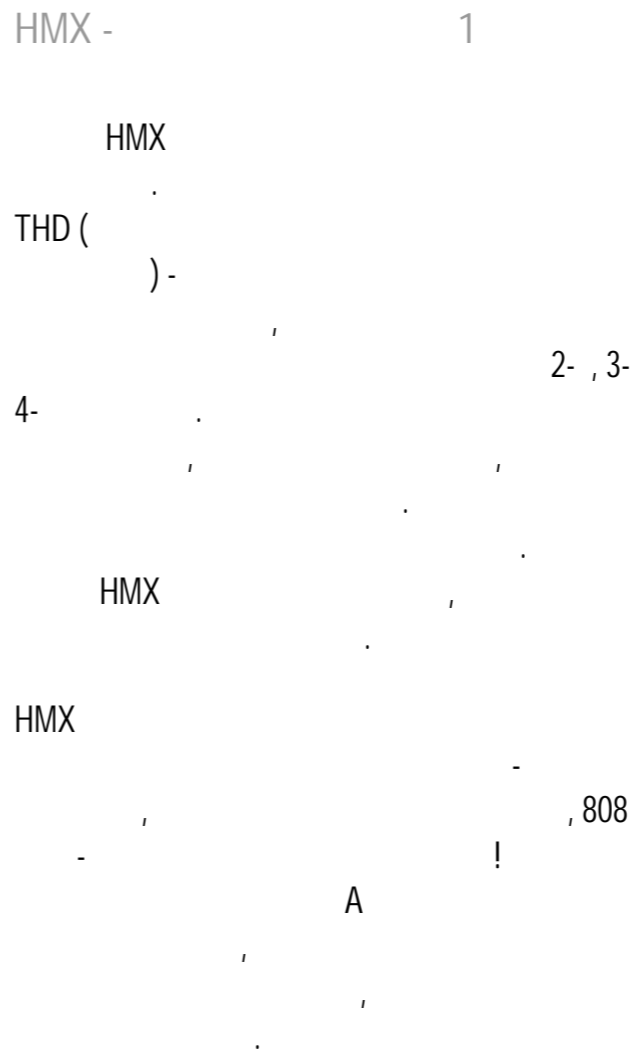
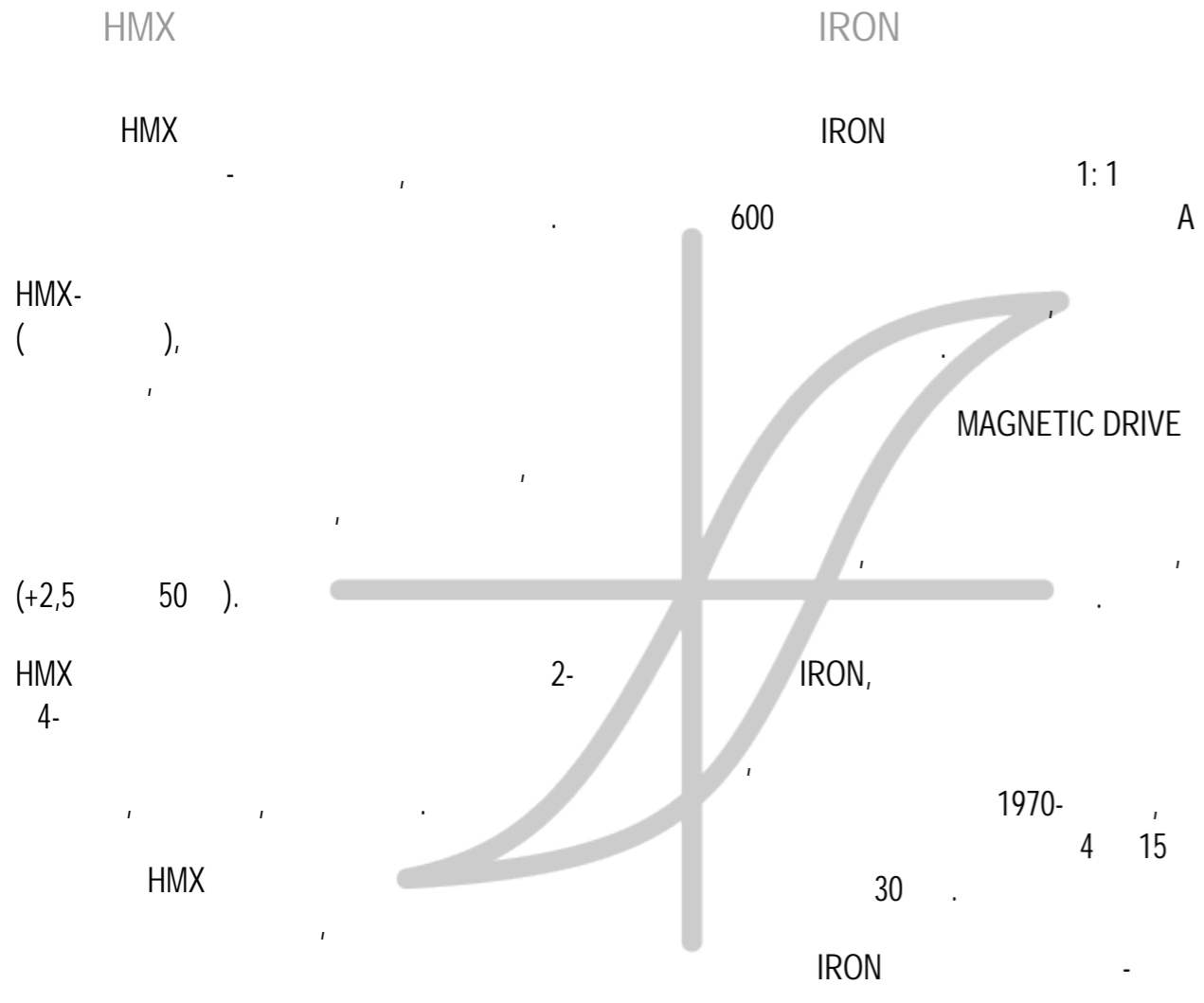
0,





RETRO

asp
800



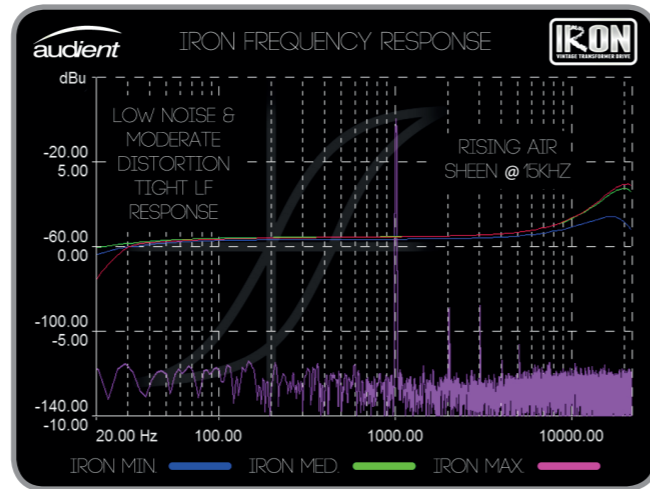
IRON -

2

IRON

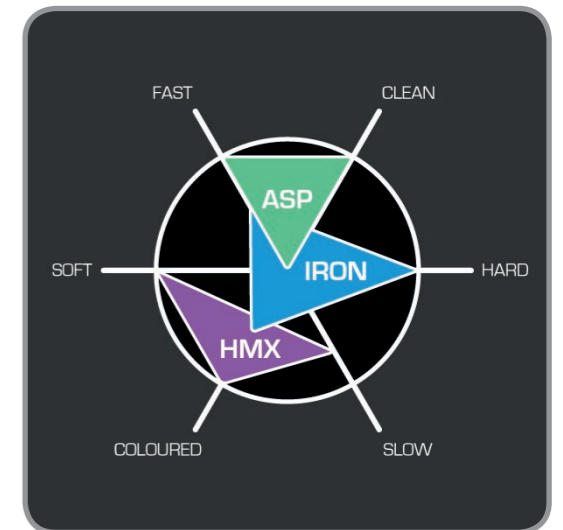
1970-

()



HMX IRON

ASP800



() , HARD () / PUNCHY () / SLOW ()

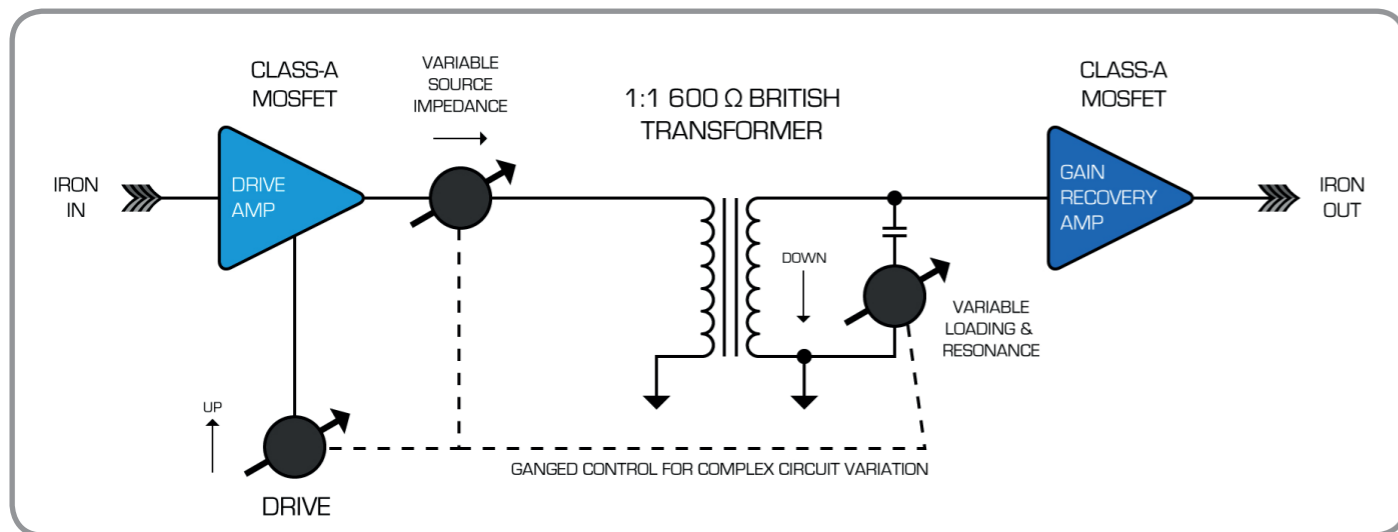
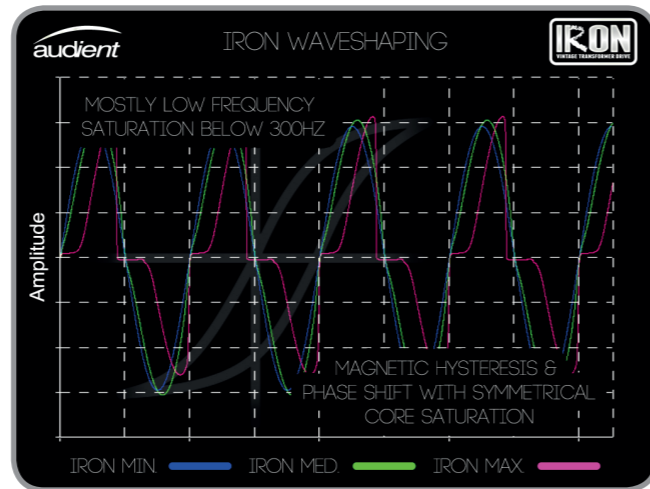
808

IRON

MOSFET

A,

« »



DB25

- ADAT SMUX

ASP800 8
DB25.
ASP8024,

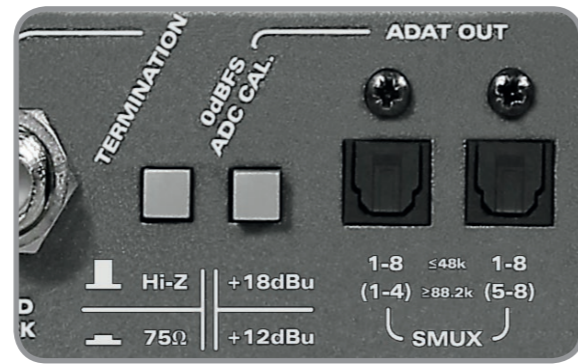
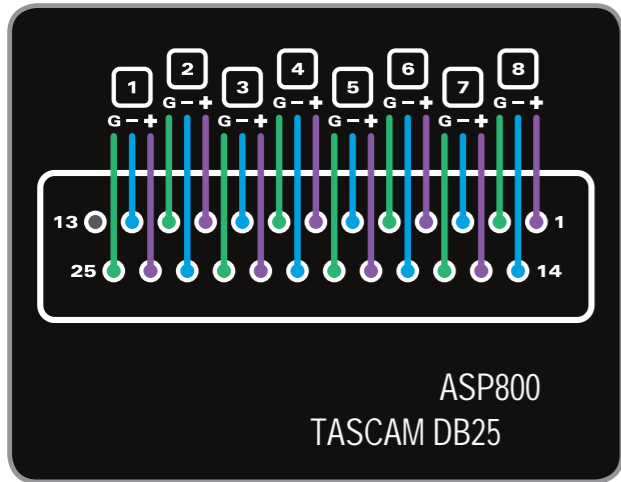
ADAT,
SMUX.
44,1 48
8
ADAT.

ASP800
+/- 15
+22 dBu
DB25.

Tascam DB25,
+22dBu. <200

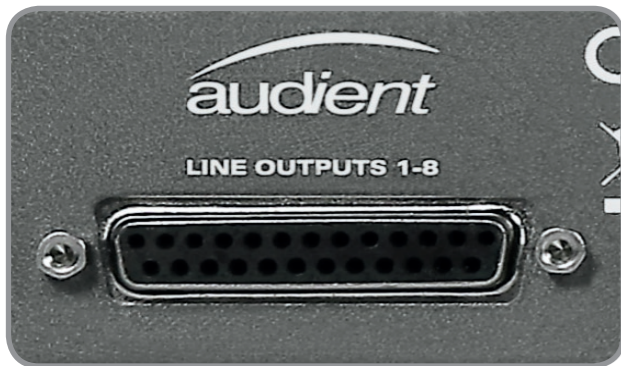
88,2 96
8
4

ASP800,
ADAT.
ASP800
+18dBu +12dBu,
0dBFS



0dBFS = +12dBu +18dBu.

(.15)
ASP800
-10dBFS
DAW.



Audio Interface	0 dBFS Reference
iD22 (Professional)	+18 dBu
iD14 (Prosumer)	+12 dBu

ASP800
ASP800,
DAW.



ASP800
-38dBFS,
-2dBFS.
DAW
PEAK!

ASP800

ASP800

(MASTER)

(SLAVE)

Master (

ASP800

ASP800 DAW /
ADAT.

SAMPLE RATE (1)

- 44.1, 48,

ASP800,

88.2 96

DAW

ADAT,

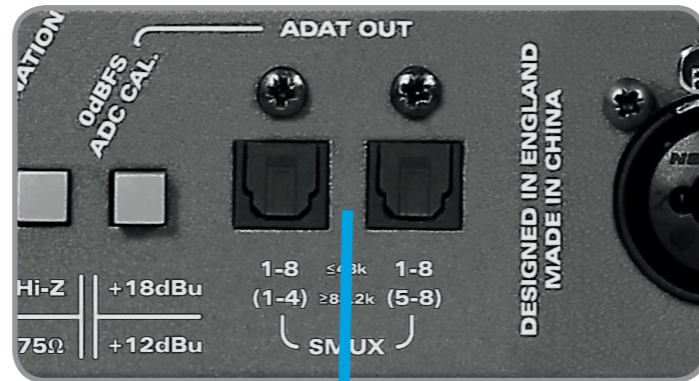
ADAT

ASP800.

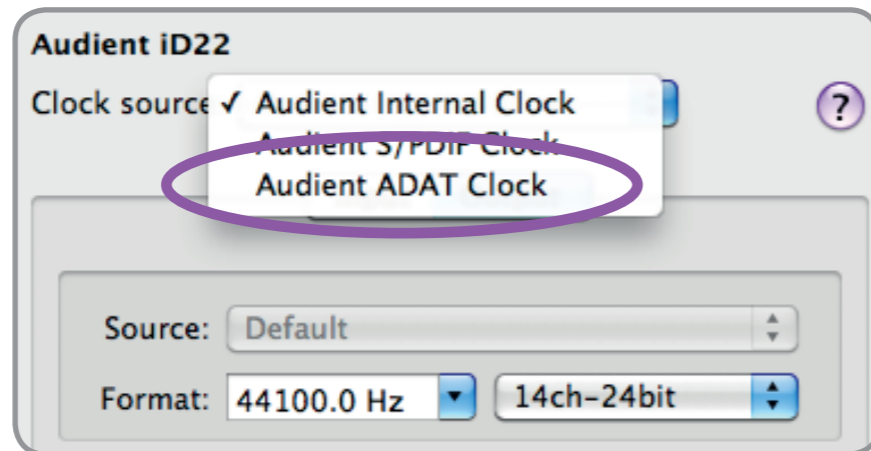
ASP800.



1.



ADAT



Slave - (

ASP800

DAW

ASP800

SLAVE,

SAMPLE RATE (1),

BNC
ASP800 (3).

ASP800

75

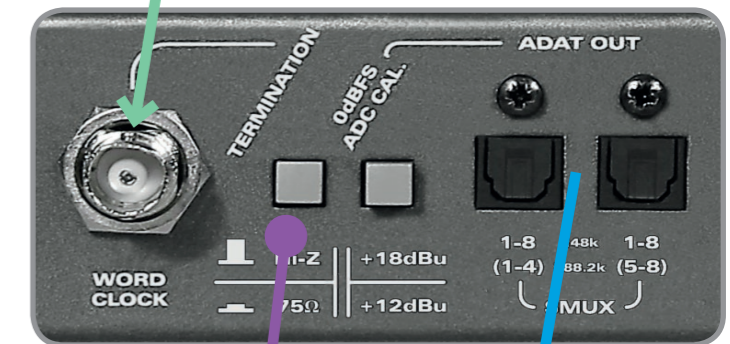


1.

WORD CLOCK ASP800

3.

75



Word Clock

SAMPLE RATE

2.

ADAT

BNC



SLAVE



SET DAW SESSION SAMPLE RATE TO MATCH ASP800 MASTER.

ALSO ENSURE iD14 IS SET TO EXTERNAL ADAT CLOCK IN iD APPLICATION & YOUR OPERATING SYSTEM



ASP800 ADAT OUTPUT TO iD14 ADAT INPUT



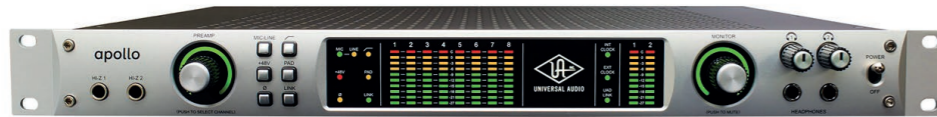
SELECT MASTER SAMPLE RATE BY PRESSING THE LOCK SWITCH TO CYCLE THROUGH FOUR AVAILABLE SAMPLE RATES 44.1 to 96kHz

MASTER



CLOCKING CONFIGURATION - ASP800 (MASTER) & iD14 (SLAVE)

MASTER



SET DAW SESSION SAMPLE RATE & MASTER CLOCK SAMPLE RATE IN DAW & UA APOLLO



ASP800 ADAT OUTPUTS TO APOLLO ADAT INPUTS

APOLLO BNC CLOCK OUT TO ASP800 CLOCK INPUT

TERMINATE BNC WITH 75Ω



PRESS LOCK UNTIL FLASHING GREEN - WILL TURN SOLID ONCE LOCKED TO EXTERNAL SOURCE ON BNC

SLAVE



CLOCKING CONFIGURATION - UA APOLLO (MASTER) & ASP800 (SLAVE)

MASTER



SET MASTER SAMPLE RATE VIA ORION32 FRONT PANEL SWITCHES OR SET IN DAW SESSION



ORION32 BNC CLOCK OUT TO ASP800 CLOCK INPUTS

TERMINATE BOTH BNCs WITH 75Ω IF SINGLE POINT CONNECTION TO EACH ASP800

ASP800 ADAT OUTPUTS TO ORION32 ADAT INPUTS

IF USING A MASTER CLOCK WITH SINGLE BNC OUTPUT, EITHER USE A T-BAR AND TERMINATE PARALLEL DEVICES, OR USE A DAISY CHAIN ARRANGEMENT AND TERMINATE THE LAST DEVICE IN THE CHAIN AT 75Ω

SLAVES



PRESS LOCK ON BOTH ASP800 SLAVES UNTIL FLASHING GREEN - WILL TURN SOLID ONCE LOCKED TO EXTERNAL SOURCE ON BNC



CLOCKING CONFIGURATION - ANTELOPE ORION32 (MASTER) & 2 x ASP800 (SLAVES)

MASTER



SET MASTER SAMPLE RATE VIA ORION32 FRONT PANEL SWITCHES OR SET IN DAW SESSION



ORION32 BNC CLOCK OUT TO ASP800 CLOCK INPUTS

TERMINATE LAST DEVICE IN DAISY CHAIN AT 75Ω

USE A T-BAR TO CREATE A DAISY-CHAINED ARRANGEMENT - TERMINATING THE LAST DEVICE IN THE CHAIN AT 75Ω

SLAVES



PRESS LOCK ON BOTH ASP800 SLAVES UNTIL FLASHING GREEN - WILL TURN SOLID ONCE LOCKED TO EXTERNAL SOURCE ON BNC



CLOCKING CONFIGURATION - ANTELOPE ORION32 (MASTER) & DAISYCHAIN (SLAVES)

(DB25) (AES-17)

(PAD): 0 70
-15 ()
-10 60 (PAD -25 45)
48 +/-4 10 /
\<-127,0 dBu
>80 100 2
+20 dBu; +35 dBu c pad
(): >2 (2,2)
(): >8 (8,6)
±0,5 10 100
<-90 dBu 10 10
0dBu (1): <0,003% (-90,5 dBu) 3
>90

XLR (): 2 (+) 3 (-) / 1 ()
1/4" TRS : (+), (-) ()

JFET DI- :
()
DI- : 0 (0-70)
+17 dBu
(DI): 1
+/-0,5 10 50
0dBu (1): <0,01% (-80 dBu) 2 3
>85
1/4" TRS : (+) ()

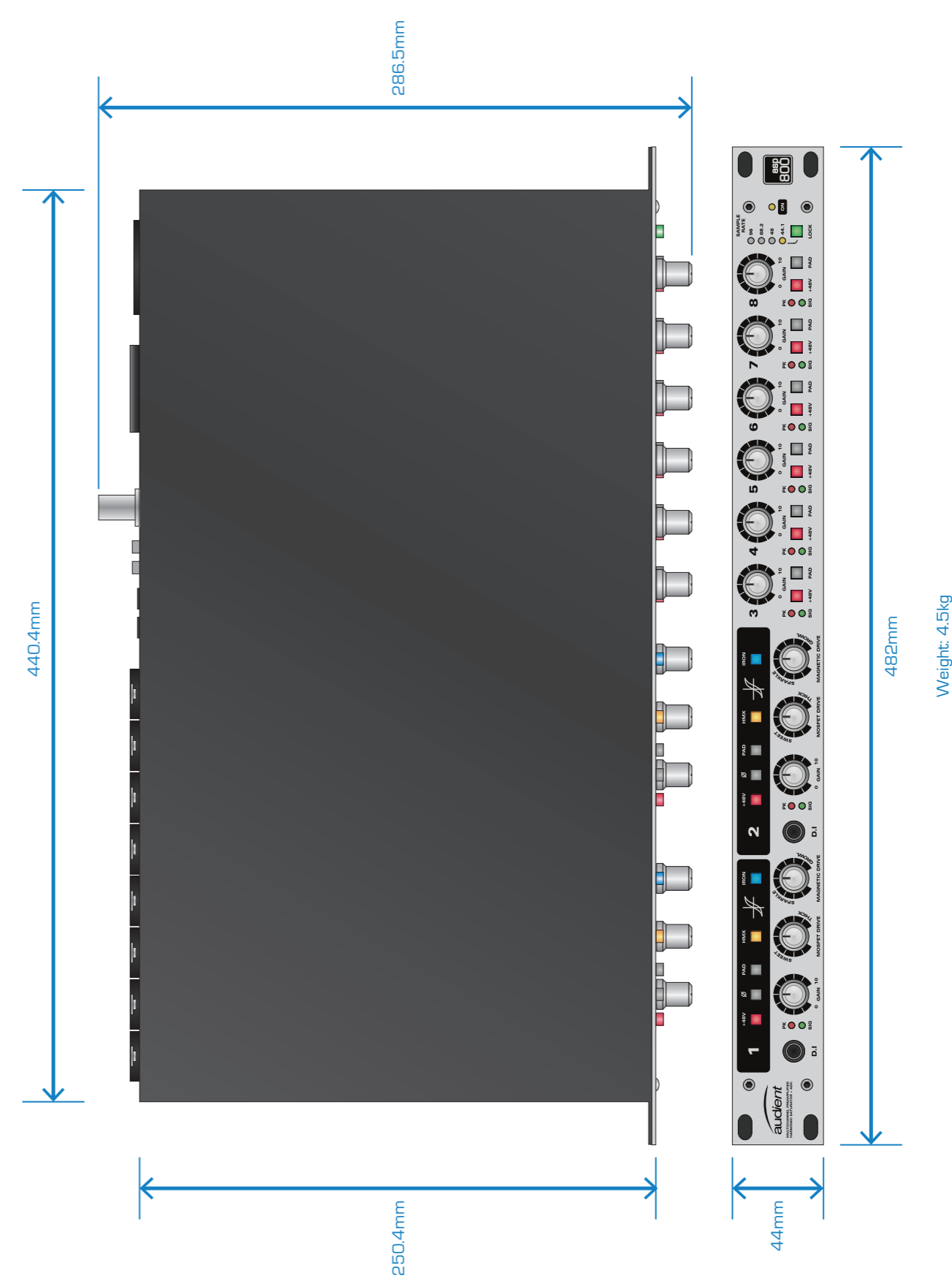
()
+22 dBu
<200
<100
DB25 8 : Tascam 25-

HMX MOSFET:
THD+N 0 dBu (1): 0,35% (2 3)
THD+N 0 dBu (1): 2,73% (2 4)
-73 dBu ()
30 150
HMX ()
MOSFET
A 70-
DAW
HMX.
1:1,
1U
482 x 286,5 x 44

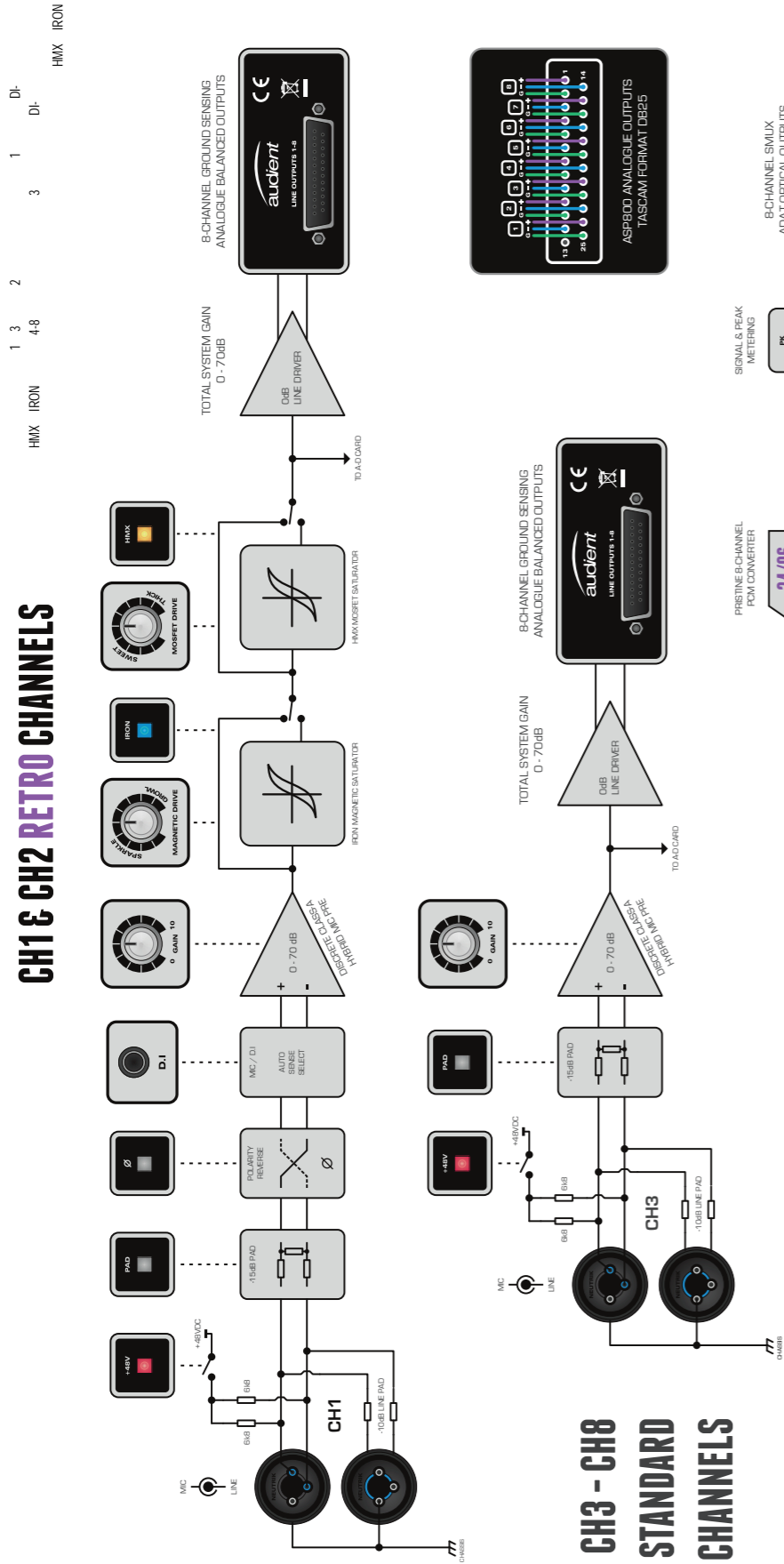
Burr-Brown PCM4204 24-
0 dBFS = +18 dBu (ID22)
0 dBFS = +12 dBu (ID14)
+/-0,1 20 Fs/2
<-110 dBFS 1 <-90 dBFS 10
<0,00015% (-96,5)
<0,0009% (-101)
113,5
116,0
PEAK: -2 dBFS ()
SIGNAL: -38 dBFS ()

ADAT 8 SMUX: 44,1 96,0
WORDCLOCK: 75 BNC - 75

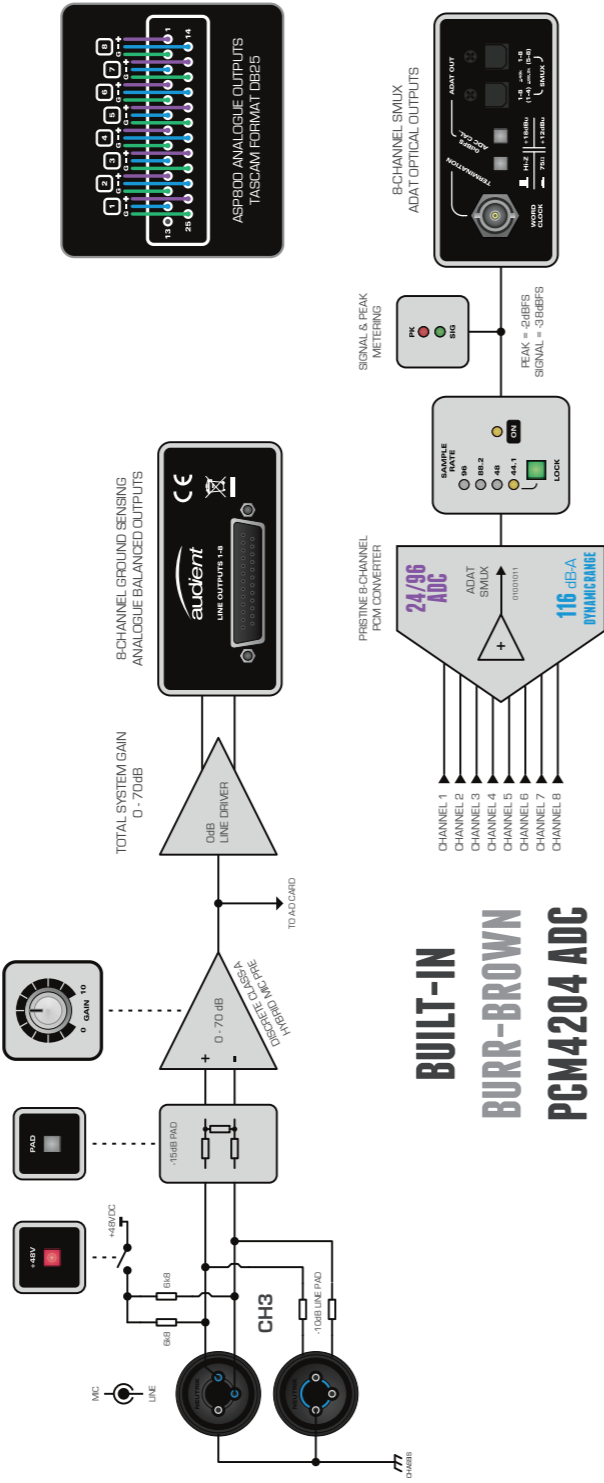
IRON
THD+N 0 dBu (1): 0,11% (2 3)
THD+N 0 dBu (1): 0,006% ()
(<300 Hz):
-84 dBu (2")
4 15



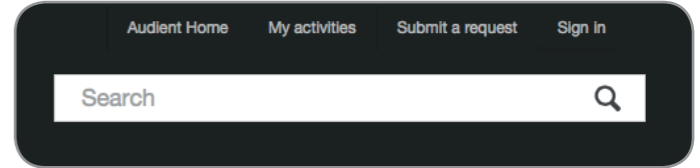
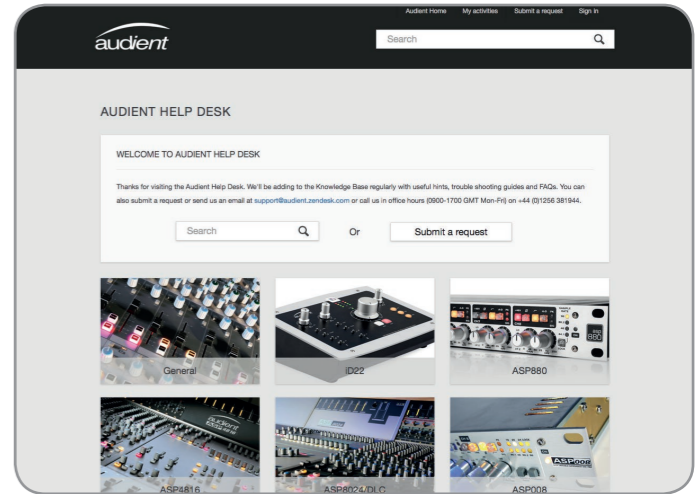
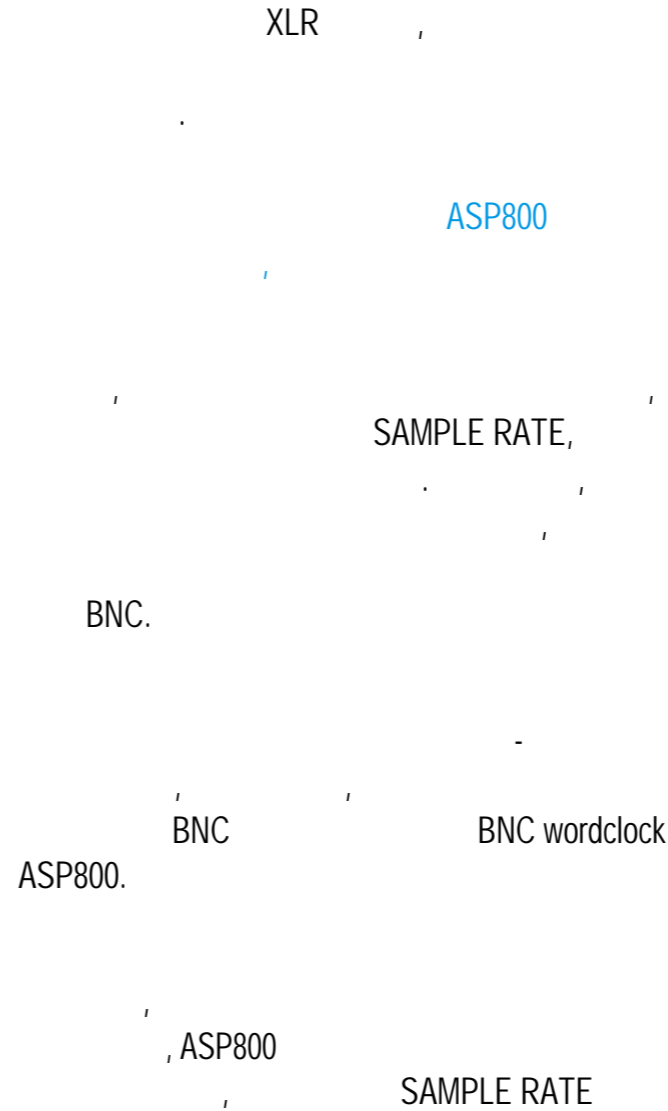
CH1 & CH2 RETRO CHANNELS



CH3 - CH8 STANDARD CHANNELS



ASP800 BLOCK DIAGRAM



ASP800

ASP800

(12)

Audient Ltd.

ASP800

Audient Ltd ,

(RMA).

Audient

RMA

Audient

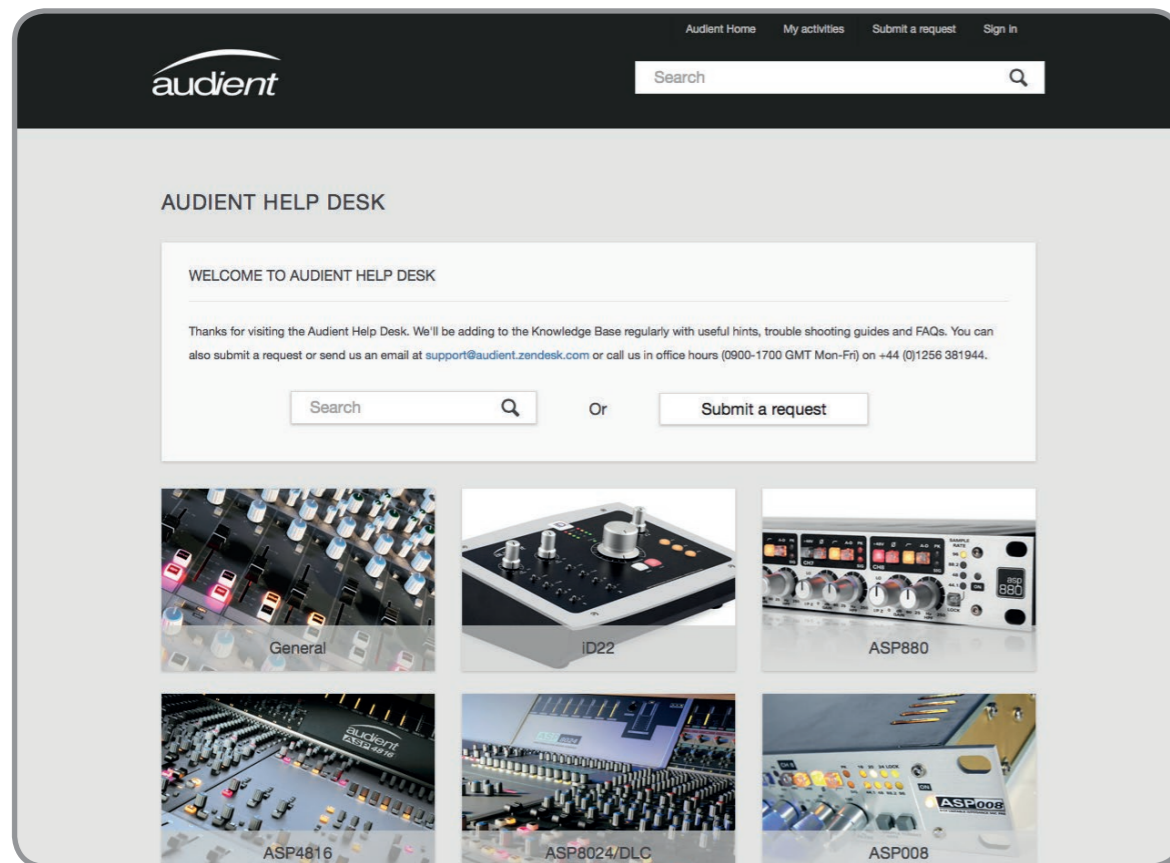
(

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RMA,

ASP800,

: www.audient.com/support



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 Hampshire
 RG25 2PN
 United Kingdom

Tel: +44 1256 381944
www.audient.com

A	Amperes
A.C.	Alternating Current
ADAT	Alesis Digital Audio Tape
ADC	Analogue to Digital Converter
AES	Audio Engineering Society - AES Digital Audio Format
ASP	Analogue Signal Processing
DAW	Digital Audio Workstation
DAC	Digital to Analogue Converter
dB	Decibel
dBa	Decibel - measured using an A-Weighting Filter
dBu	Decibel referenced to 0.775Vrms = 0 dBu
dBFS	Decibel Full Scale
DB25	25-Pin DSUB Connector - Analogue Tascam Format
D.C.	Direct Current
D.I	Direct Injection (Instrument Input)
DoC	Declaration of Conformity
EIN	Equivalent Input Noise
FAQ	Frequently Asked Questions
HPF	High Pass Filter
HMX	Harmonic Saturation
HV	High Voltage
Hz	Hertz, cycles per second - measurement unit of frequency
i/o	Input / Output
IRON	Reference to Vintage Audio Transformer Core Material
JFET	Junction Field Effect Transistor
LED	Light Emitting Diode
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
Ohm	Ω , Unit of Resistance
RoHS	Restriction of Hazardous Substances
S/PDIF	Sony Philips Digital Interconnect Format
SMUX	Sample Multiplexing
THD+N	Total Harmonic Distortion + Noise
TRS	Tip Ring Sleeve [1/4" Jack Balanced]
TS	Tip Sleeve [1/4" Jack Unbalanced]
USB	Universal Serial Bus
V	Volts
XLR	Extra Live Return, Extremely Low Resistance, Canon X Series, Latching, Resilient Rubber Compound... or make up your own!
Z	Ohms, Ω , Input Impedance - can be varied by adjusting Z switch