

SAFETY INSTRUCTIONS

Read this user manual and keep it with the product.

Always follow all safety instructions and local security regulations.

Never use accessories not manufactured or approved by Aura Audio with Aura Audio products.

CAUTION: RISK OF ELECTRIC SHOCK. DO NOT OPEN.

WARNING: This apparatus is CLASS I construction and must be connected to a MAINS socket outlet with a protective earth connection!

Do not install the amplifier near heat sources and expose it to severe moisture or splashes of water or other liquids.

Unplug the MAINS connector in case of thunderstorm.

Please check the Aura Audio website on a regular basis for latest downloads and updates. In case of any questions please don't hesitate to contact us for more information via info@auraaudio.fi

TABLE OF CONTENTS

1.	Safety Instructions	1
2.	Introduction	2
3.	Front Panel and Rear Panel	3
4.	Output Connection Modes	4
5.	i-Series System Option Examples	5
6.	Specifications	7
7.	Declaration of Conformity	8



INTRODUCTION

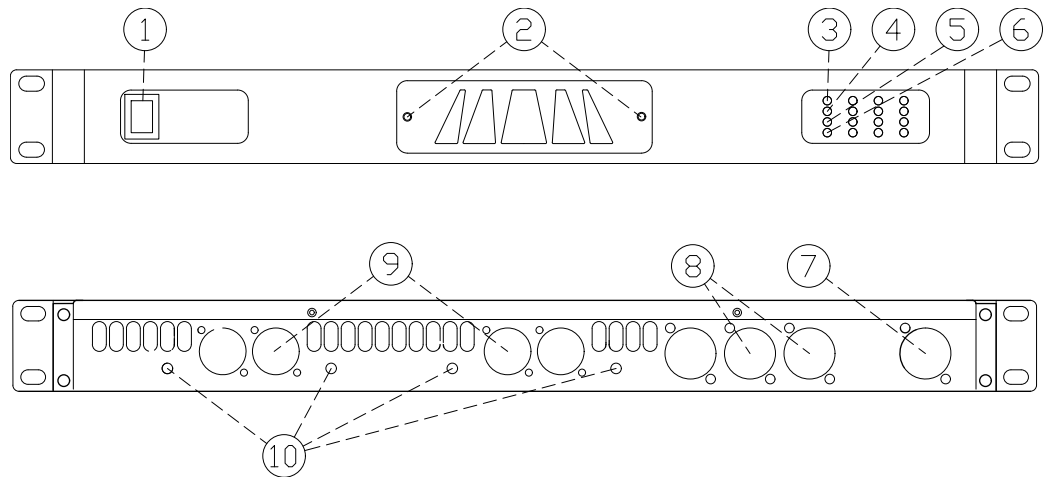
D2 amplifiers are Class-D High Efficiency Power Amplifiers with fixed Loudspeaker Management. D2 amplifier range represents the latest technology in Class-D amplifier design featuring extremely high fidelity sound with frequency-independent harmonic distortion performance, very low noise floor and low total weight.

D2i is 2 in 4 out amplifier to be used as an independent system amplifier or together with D80DSP fed by D80DSP AUX Outputs. It is a dedicated system amplifier for i3 and i5 with subwoofers XD10 and XD12 featuring crossover for bi-amp operation.

D2i amplifier is fitted with fixed system controllers for the specific loudspeaker including high-pass and low-pass filters, parametric EQ and state-of-the-art optical limiter circuit.

Both channels are powered by separate switch-mode power supplies featuring over-current and over-voltage protection and optimized low noise cooling system.

FRONT PANEL AND REAR PANEL



1. Power Switch: Double pole switch turns the amplifier off and isolates it from the mains.

2. Ventilation: Change or clean the foam by unscrewing the two M3 Allen Screws.

3. Limit Indicator: This yellow LED indicates when output limiting is taking place. Brightness increases when more gain reduction is taking place. Subwoofer channel is at left side and i3/i5 channel at right for each C1 and C2 pair.

4. Signal Indicator: This green LED indicates -10dB signal to limit ratio. Subwoofer channel is at left side and i3/i5 channel at right for each C1 and C2 pair.

5. Signal Indicator: This green LED indicates -20dB signal to limit ratio. Subwoofer channel is at left side and i3/i5 channel at right for each C1 and C2 pair.

6. Ready Indicator: Indicates channel power supply is ON and channel is working without protection.

7. MAINS Connector: Neutrik Powercon

8. Speaker Outputs: Neutrik Speakon NL4 connectors
(see below: Output Connections)

9. INPUT Connectors: XLR sockets for line level input (0dBu for -3dB average output level) and hard link XLR for linking the inputs.

10. Output Gain TRIM: These potentiometer control the signal pre limiter and amplifier from 0dB to -100dB

OUTPUT CONNECTIONS:

D2i is a four channel amplifier. There are two amplifier channels connected in both Speakon NL4 connectors:

#1 Subwoofers are connected to:

Pin 1+: Hot

Pin 1-: Cold

Minimum nominal load impedance should be 8 Ohms

#2 Max 6 pcs of i3 or one i5 are connected to:

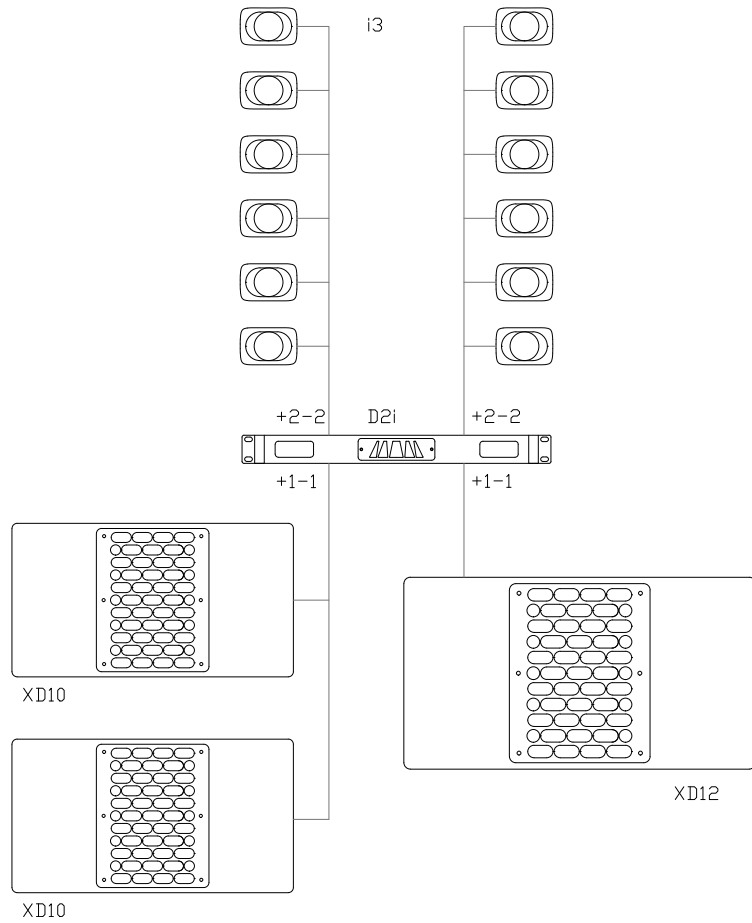
Pin 2+: Hot

Pin 2-: Cold

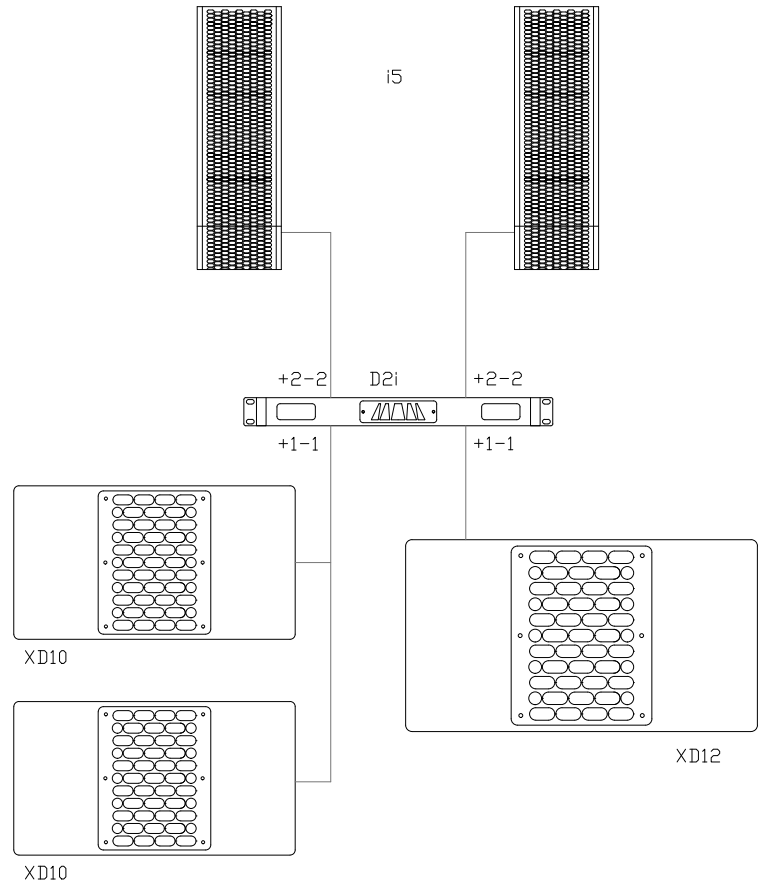
Minimum nominal load impedance should be above 2 Ohms

Recommended maximum speaker cable lenght			
cable gauge	8 Ohm load	4 Ohm load	2.7 Ohm load
2.5mm ²	30m	15m	10m
4mm ²	50m	25m	17m
6mm ²	74m	37m	25m

i3 System Option Examples



i5 System Option Examples



SPECIFICATIONS

D2i Output Power Subwoofer channels: (2) 250W/8ohms

D2i Output Power i3/i5 channels: (2) 125W/4ohms

Frequency response: 15Hz-30kHz -1dB

Dynamic Range: >100dB (C-weighted)

THD+N at -3dB <0.05% (50Hz - 20kHz)

THD+N at +10dB limit <0.5% (1kHz)

Input connectors: 2 x XLR, 2 x XLR link

Output connectors: 2 x Speakon NL4

Subwoofer Output Speakon NL4 pins:

1+ (hot), 1- (cold)

i3/i5 Output Speakon NL4 pins:

2+ (hot 1), 2- (cold 1)

Output Gain TRIM: 0dB to -100dB

Mains connector: Neutrik Powercon

Mains Power Consumption: 150W 1/5 Power, 1000W peak

Mains Power Idle Losses: 50W

DIMENSIONS

483mm (19") x 44mm (1U) x 400mm

Weight: 5,5kg

Shipping box: 540mm x 85mm x 510mm

Shipping weight: 6kg



EC DECLARATION OF CONFIRMITY (CE symbol)



Aura Audio Oy
Pääskykalliontie 3
21420 Lieto
Finland

States that the following product:

D05k, D1k, D2w, D2k, D5k, F1A and F10A amplifiers

Is in conformity with the provisions of the respective EC directives including all applicable amendments:

2006/95/EC: Low Voltage Directive
2004/108/EC: Electro-Magnetic Compatibility Directive
2011/65/EU: ROHS2 directive

List of tests and standards applied:

Radiated Emissions / EN 61000-6-3
EN 55022B

Conducted Emissions / EN 61000-6-3
EN 55022B

Radiated RF Immunity / EN 61000-6-1
10V/m / IEC 61000-4-3

Conducted RF Immunity / EN 61000-6-1
3V / IEC 61000-4-6

Electrical Fast Transient Immunity (EFT) / EN 61000-6-1
1,0/0,5kV / IEC 61000-4-4

Surge Immunity / EN 61000-6-1
1,0/2,0kV / IEC 61000-4-5

Electrostatic Discharge Immunity / EN 61000-6-1
6kV Contact / 8kV Air Discharge / IEC 61000-4-2

Established at Lieto, Finland, November 20, 2013

Mika Isotalo
Managing Director
Aura Audio Oy