



OWNER'S MANUAL

ELEMENT

ELA FIRE
600 RMS x 1CH AMP

ELA AIR
125 RMS x 4CH AMP

ELA WATER
1200 RMS x 1CH AMP

ELA EARTH
200 RMS x 4CH AMP

ELA STONE
300 RMS x 2CH AMP

ELA WOOD
300 RMS x 4CH AMP

ELA METAL
600 RMS x 2CH AMP

CONGRATULATIONS !

You now own a μ -Dimension Europe ELEMENT smart Serie Amplifier, the product of an uncompromising design and german engineering philosophy. A product made from Car Audio fanatics who truly believe in the relentless pursuit of perfection.

μ -Dimension amplifiers are the result of several decades of product improvements, competition, innovation and highest quality parts and control standards in industry.

When properly installed these amplifiers will provide you with many years of listening pleasure and are the perfect balance between high fidelity, extreme performance and long-lasting reliability.

Should your amplifier ever need a service, please record your information on the following lines to refer to in the event that you may need it later.

Dealer's Name _____

Date of Purchase _____

Installation Shop _____

Installation Date _____

At μ -Dimension Europe we are confident you will have many years of outstanding enjoyment from your high performance investment. For maximum performance we recommend that you have your new μ -Dimension Europe ELEMENT Amplifier installed by an exclusive authorized μ -Dimension Europe Dealer.

To learn more about μ -Dimension Europe please visit us on the World Wide Web

at <http://www.u-dimension.eu>

Caution !

Continuous exposure to sound pressure levels in excess of 100dB can cause permanent hearing loss. μ -Dimension Europe Products are capable of producing sound pressure levels well over the 150dB. Please observe all local ordinances while listening to your μ -Dimension Europe Car Audio System. We accept no liability for hearing loss, bodily injury or property damages due to use or misuse of our products.

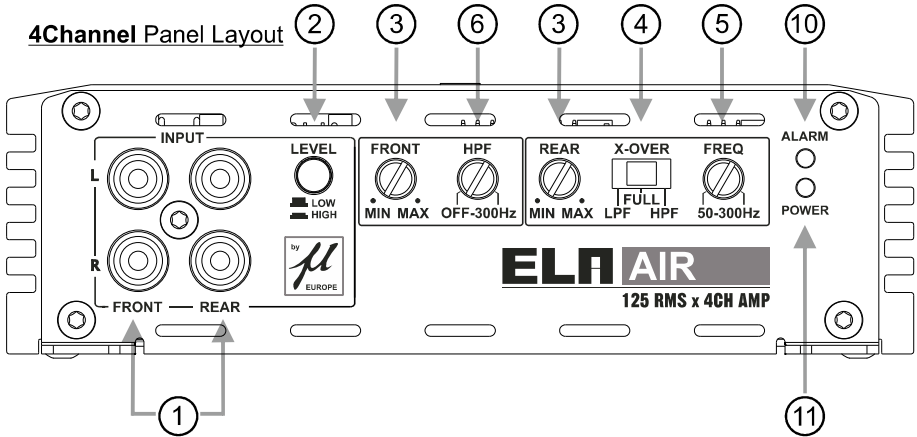
ELA SPECIFICATIONS

| Model | AIR | EARTH | WOOD | STONE | METAL | FIRE | WATER |
|---|---|----------|----------|--------------|-----------|----------|-----------|
| RMS Power at 14.4V (THD < 1%) | | | | | | | |
| 2Ohm Load | 125W x 4 | 200W x 4 | 300W x 4 | 300W x 2 | 600W x 2 | 600W x 1 | 1200W x 1 |
| 4Ohm Load | 75W x 4 | 125W x 4 | 200W x 4 | 200W x 2 | 300W x 2 | 400W x 1 | 700W x 1 |
| Bridged 4Ohm Load | 250W x 2 | 400W x 2 | 600W x 2 | 600W x 1 | 1200W x 1 | n.a. | n.a. |
| FEATURES | | | | | | | |
| Input Level | PRE INPUT : 0.4 ~ 4V / SPK INPUT : 0.8 ~ 8V | | | | | | |
| Frequency Response | 10Hz~30KHz | | | 10Hz~30KHz | | 10~25KHz | |
| X-over Type | HPF/FULL/LPF | | | HPF/FULL/BPF | | | |
| L.PF./BPF | REAR: 50Hz ~ 300Hz | | | 0Hz ~ 300Hz | | | |
| HPF | FRONT: 0Hz ~ 300Hz / REAR: 50Hz ~ 300Hz | | | 0Hz ~ 300Hz | | | |
| Bass Boost Frequency | n.a. | | | 40Hz | | | |
| Bass Boost Level | n.a. | | | 0dB ~12dB | | | |
| Intelligent Power Management System | Overload protection, Shortcircuit protection, Overheat protection, Low voltage protection, Over voltage protection. | | | | | | |
| SIN Ratio | >96dB | | | >95dB | | | |
| Minimum Load | 2Ohm | | | 2Ohm | | | |
| Voltage Range | 7.5V ~ 16V | | | 7.5V ~ 16V | | | |
| Optional Bass Remote | n.a. | | | YES | | | |
| Components & PCB | SMT Parts / Double-Sided FR-4 PCB | | | | | | |
| DIMENSION | | | | | | | |
| Height (mm) | 45 | | | | | | |
| Width (mm) | 155 | | | | | | |
| Length (mm) | 165 | 165 | 185 | 165 | 185 | 165 | 185 |

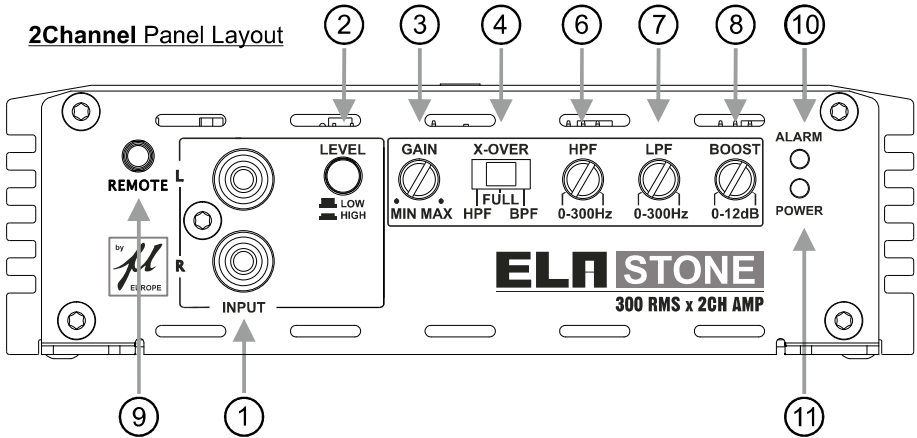
The contents of this manual the specifications of this product are subject to change without notice.

FRONT PANEL LAYOUT

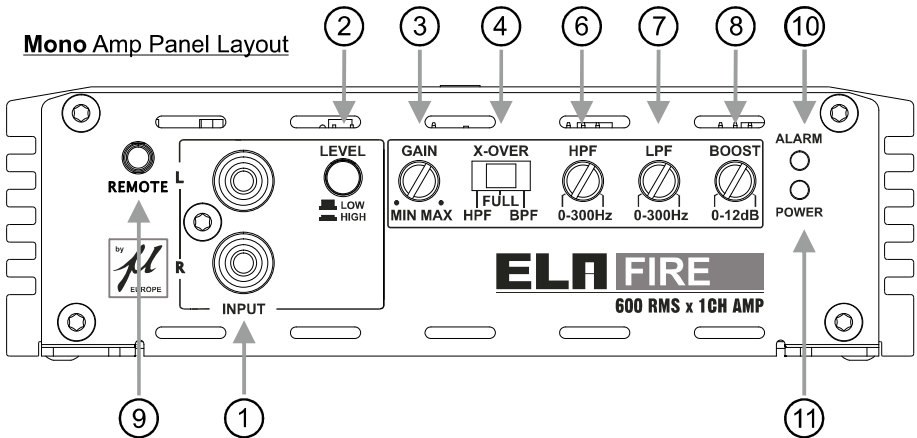
4Channel Panel Layout



2Channel Panel Layout

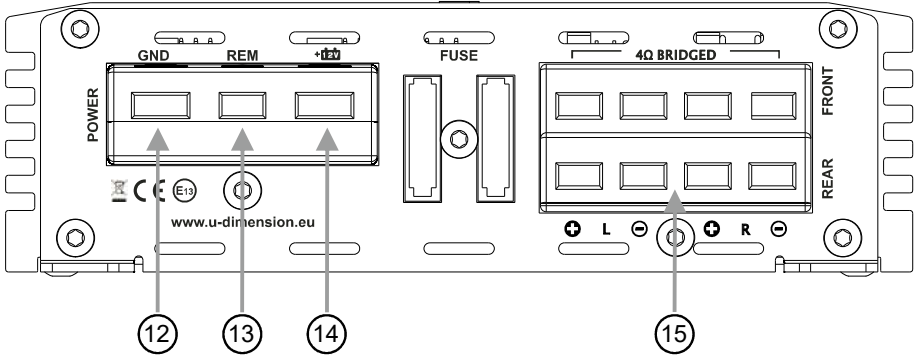


Mono Amp Panel Layout

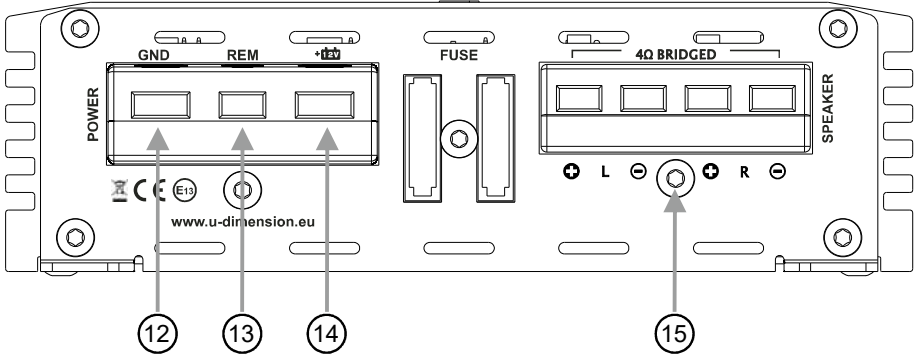


REAR PANEL LAYOUT

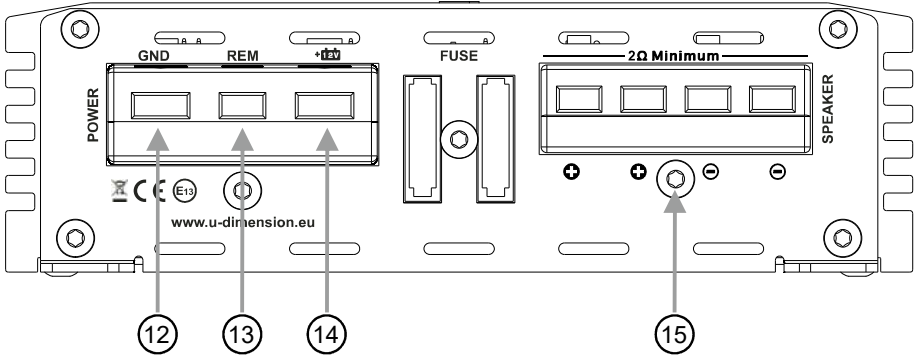
4Channel Panel Layout



2Channel Panel Layout



Mono Amp Panel Layout



CONTROL FUNCTIONS

1. RCA Audio Input

These RCA Input jacks connect with your source unit RCA Low Level Outputs or via optional Adapter (XML/XFM) with your source unit speaker High Level Outputs. The use of high quality twisted pair car audio cables is recommended to mind possibility of disturbance the audio signal.

2. Input Mode Switch

This Switch select the operating Signal input Voltage of your ELEMENT Amplifier

2.1 Low Level Signal (RCA Output Headunit) operate Input within a range of 0.4 - 4.0 V

2.2 High Level Signal (Speaker Out Headunit) operate Input within a range of 0.8 - 8.0 V

AUTO TURN ON/OFF is provided at High Level Signal Input Mode via DC at the RCA

3. GAIN Controle

The Gain controle will match amplifiers sensitivity to the provided source unit signal voltage.

4. X-Over Mode Switch

This Switch select between 3 Options of operating frequency range of your ELEMENT Amplifier

4.1 HPF - High Pass filter the unwanted low frequency range from your audio signal.

4.2 FULL - Fullrange setting route your audio signal without any Filter direct to amplification.

4.3 BPF - operating High and Low Pass. Filter high and low frequency from your audio signal.

5. FRQUENCY Selection

This knob controls the x-over point from where Low or High Frequency can be cut out.

6. HIGH PASS FILTER

This knob controls the frequency x-over point from where Low Frequency can be cut out.

7. LOW PASS FILTER

This knob controls the frequency x-over point from where the High Frequency can be cut out.

8. BASS BOOST

This knob adjust the 40Hz signal boost level from 0 up to 12dB. Preferable used small size car.

9. REMOTE - Bass Level Control (Optional)

The Volume of your ELEMENT Amplifier can get adjusted via remote controle from driver seat.

10. POWER Indicator.

LED will light up when work properly. It will flash or shut down once self testing or malefuciton.

11. ALARM Indicator

LED will light up if amplifier has detected a fault or has shut down to protect itsselves.

This may caused for example at excessive heat, reverse polarity, short circuit or overload.

This case please turn off the amplifier, disconnet and resolve the problem before continue.

12. GND Terminal

This terminal is to connect directly to the frame of vehicle. Use shortest distance possible and equal or larger Cable than +12Volt Battery Cable. Asure frame has been cleaned to bar metal.

13. REM Terminal

This Remote terminal is to connect with headunit 12V remote output to turn ON/OFF the amp.

14. +12Volt Battery Terminal

Connect terminal with proper AWG OFC Power Cable fused with positive terminal of car battery.

15. Speaker Terminal

Connect your speaker to these terminals with proper polarity

INSTALLATION PRECAUTION AND CONNECTION

Before you install the amplifier, investigate your car's layout very carefully. Take special care when you work near the gas tank, fuel lines, hydraulic lines and electrical wiring. Before making or breaking power connections in your system, disconnect the car battery. Confirm that your headunit or other equipment is turned off while connecting the input jacks and speaker terminals. If you need to replace the power fuse, replace it only with a fuse identical to the original. Using a fuse of a different type or rating may result in damage to your amplifier which is no warranty.

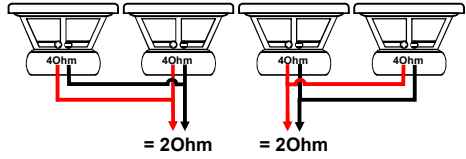
1. Connect the amplifier ground cable to a close, bare metal part of the frame or chassis. Use a nut and bolt. The ground cable must be at least the same size as the +12Volt cable.
2. Connect the remote terminal to remote output of the head unit using upper 16GA wire.
3. Connect a fuse holder with 12" (30cm) to the car battery and run the cable to the amplifier.
4. Connect all the Inputs with high quality car audio cables to assure the best performance.
5. Connect Remote Control if necessary
6. Insert Fuse into battery Fuse Holder.

TROUBLE SHOOTING

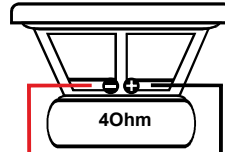
| Symptom | <i>Possible Remedy</i> |
|------------------------------------|---|
| Amplifier will not power up | <p><i>Check to make sure you have a good ground connection.</i></p> <p><i>Check that there is battery power on the (+)terminal .</i></p> <p><i>Check all fuses, replace if necessary .</i></p> <p><i>Make sure that the Protection LED is not illuminated.</i></p> |
| Protection LED Comes on | <p><i>Check for short circuits on speaker leads.</i></p> <p><i>Check the speaker load not beyond the minimum load.</i></p> <p><i>Remove speaker lead, and reset the amplifier. If the protection LED still Comes on, then the amplifier is faulty and needs servicing .</i></p> |
| No output | <p><i>Check that the RCA audio cables are plugged into the proper inputs.</i></p> <p><i>Check all speakers wiring.</i></p> <p><i>Check the headunit output and the amplifier level setting.</i></p> |
| Low output | <p><i>Reset the level Control.</i></p> <p><i>Check the Crossover Control settings.</i></p> |
| High hiss in The speakers | <p><i>Check the RCA cable is not shorted to power ground at amplifier side.</i></p> <p><i>Check the amplifier grounding.</i></p> |
| Distorted sound | <p><i>Check that the Input level control is set to match the signal level of the head unit. Always try to set the Input level as low as possible.</i></p> <p><i>Check that all crossover frequencies are properly set.</i></p> <p><i>Check for short circuits on the speaker leads.</i></p> |
| Amplifier gets Very hot | <p><i>Check that the minimum load impedance for the amplifier model is correct.</i></p> <p><i>Check that there is good air circulation around the amplifier. In some applications, It may be necessary to add an external cooling fan.</i></p> |

WIRING DIAGRAM - 4CH AMPLIFIER

WIRING DIAGRAM STEREO MODE

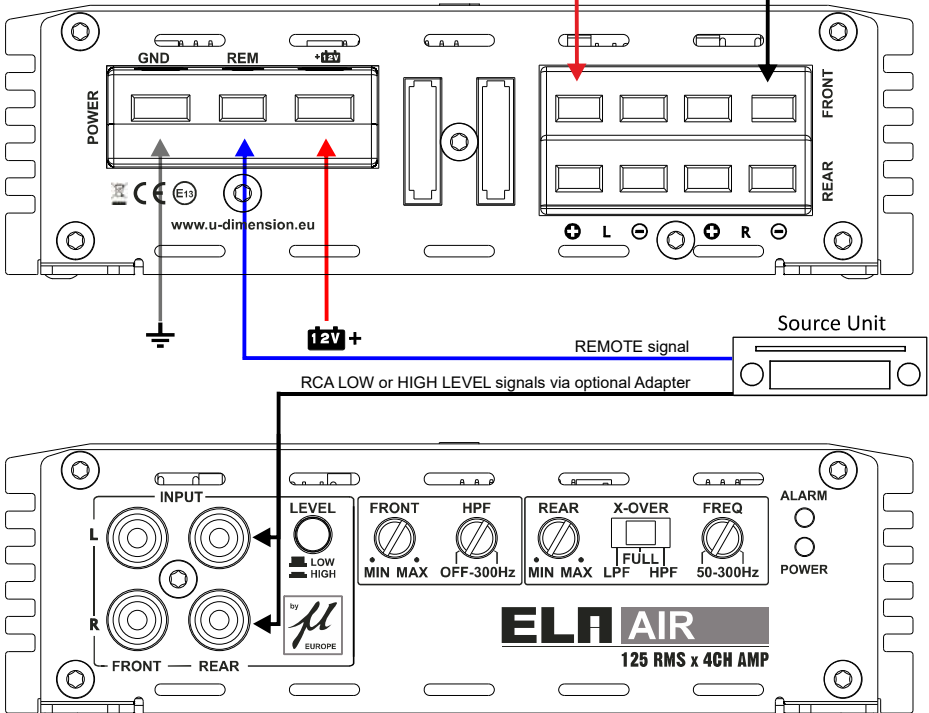


WIRING DIAGRAM MONO MODE



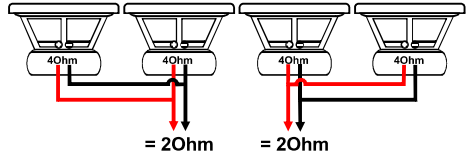
* Equivalent impedance load can not be less than Minimum load of the Amplifier

Connection Drawing works for REAR in the same way !!!

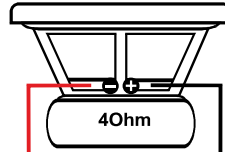


WIRING DIAGRAM - 2CH AMPLIFIER

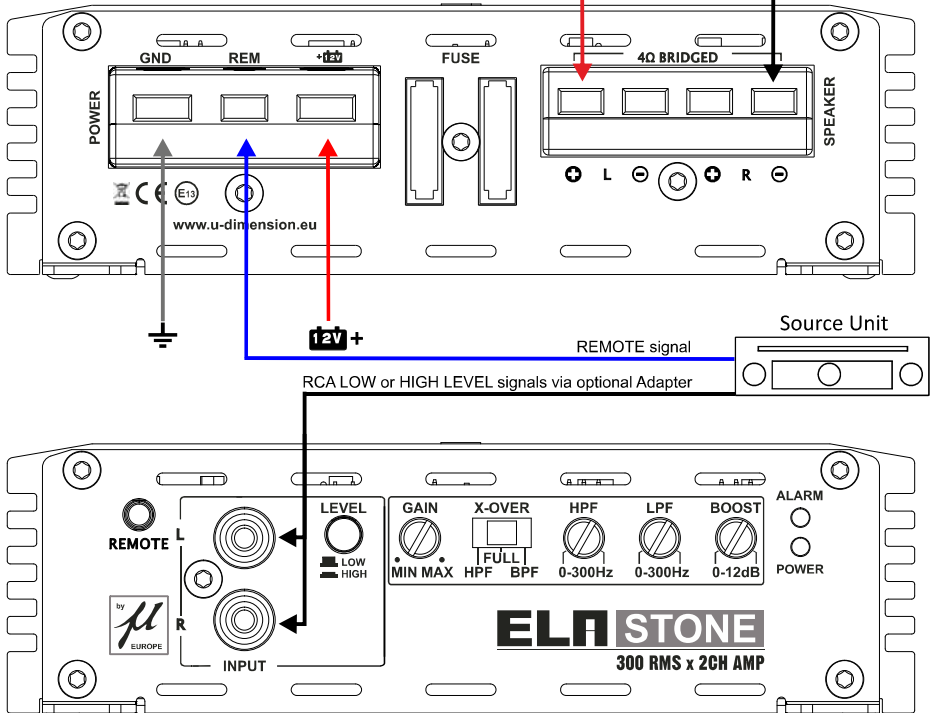
WIRING DIAGRAM STEREO MODE



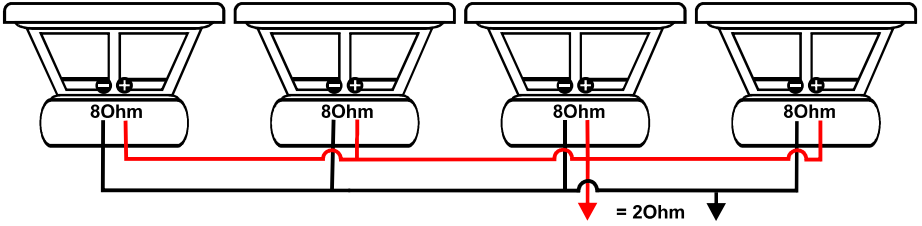
WIRING DIAGRAM MONO MODE



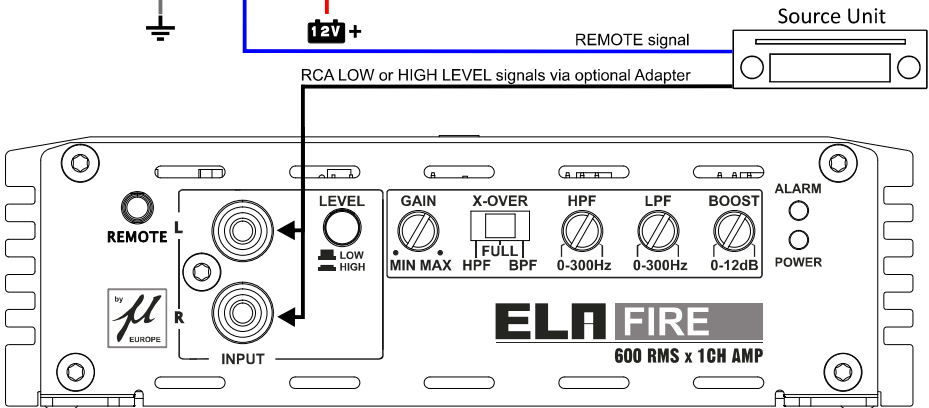
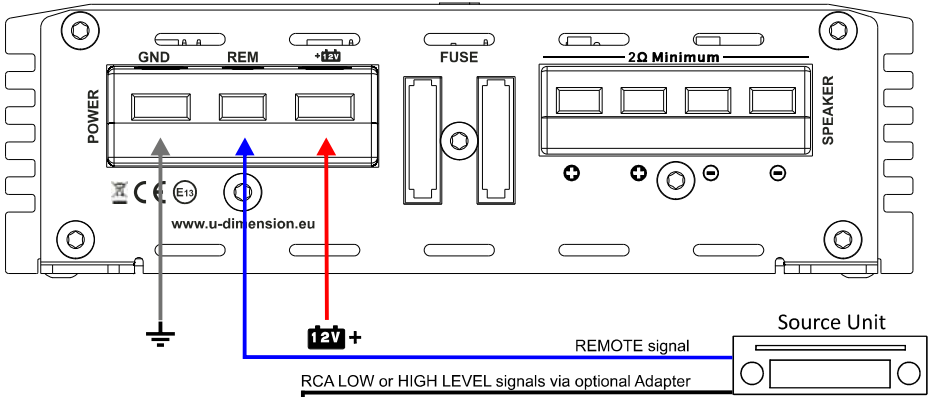
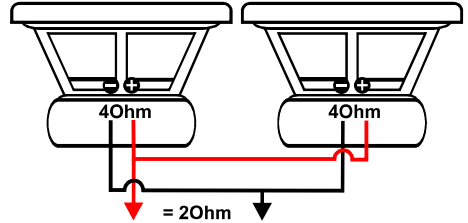
* Equivalent impedance load can not be less than Minimum load of the Amplifier



WIRING DIAGRAM - MONO AMPLIFIER



- * Equivalent impedance load can not be less than Minimum load of the Amplifier
- * Mono Amps provide Dual +/- Terminals. (they are parallel connected internal)



LIMITED WARRANTY POLICY

μ -Dimension Europe offers limited warranty under normal use on following terms:

μ -Dimension Europe Amplifiers are to be free of defects in material and workmanship for a period of one year.

This warranty applies only to μ -Dimension Europe products sold to consumers by authorized μ -Dimension Europe Dealer in Germany. Products purchased by consumers from an μ -Dimension Europe dealer in another country are covered only by that country's Distributor and not by μ -Dimension Europe.

This warranty covers only the original purchaser of μ -Dimension Europe product. In order to receive service, the purchaser must provide μ -Dimension Europe with the receipt stating the consumer name, dealer, product and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at μ -Dimension Europe's discretion and will not be liable for incidental or consequential damages.

μ -Dimension Europe will not warranty this product under following situations:

- * **Amplifier received with apparent rust or corrosion**
- * **Any evidence of liquid damage or exposure to excessive heat**
- * **Attempted repairs or alterations of any nature**
- * **Product that has not been installed according to this owner manual**

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above.

No person is authorized to assume for μ -Dimension Europe any of other liability in connection with the sale of this product.

Please call prior your authorized μ -Dimension Europe dealer the product got purchased. In case they are not accessible call 09603-903-752 for μ -Dimension Customer Service. You must obtain an RA# (Return Authorization Number) to return any product to the μ -Dimension Europe mothership. The RA number must be prominently marked on the outside of the shipping carton or the delivery will be refused. Please pack your return carefully! We are not responsible for items damaged in shipping. Return the defective product along with a copy of the original dated retail sales receipt plus 10,- EUR for handling and diagnostic evaluation to:

**μ -Dimension EUROPE - A Division of CHPW
Attn: Returns (RA#)
Neustaedter Str. 20, D-92685 Floss / Germany**



A Division of CHPW
Friedrich-Ebert-Str. 42
D-92637 Weiden / Germany

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