

# ELITE

*PHOENIX GOLD*



**ELITE.12D4/D2  
OWNER'S MANUAL**

## A FEW WORDS ABOUT DESIGN

Thank you for purchasing the Phoenix Gold Elite.12 subwoofer. Featuring 60mm of peak to peak excursion, this monster's 3.0" voice coil is engineered with a vented Titanium/Aluminum Hybrid former that is extremely light, rigid and capable of handling 1600w RMS. The dual spider system keeps the ultra long voice coil centered to eliminate any motor vibrations and losses. It also provides the perfect mechanical force for the moving assembly of the cone and voice coil, so the end result is smooth effortless output even during massive excursion or extreme power. The motor has undergone full FEA optimization that allows the motor force to remain consistent over a wide range of power and excursion levels. Whether you want to hear intricate bass notes or deliver massive wind shield shattering dynamic output, the Elite.12 is over-built and over-engineered to get the job more than done.

## ENCLOSURE RECOMMENDATIONS

SEALED (cu.ft.)	Elite.12d4/2
SPL	.75
Normal	1.2
SQ	1.6

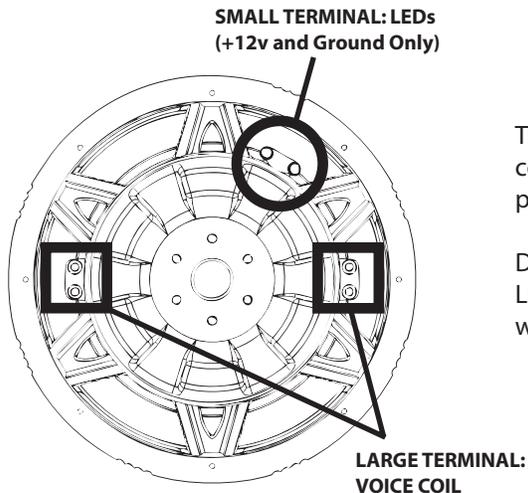
- For vented enclosures a subsonic filter set at 25Hz to 35Hz is required.
- Sealed enclosure volumes INCLUDE THE DISPLACEMENT of the subwoofer.
- Vented enclosure volumes INCLUDE THE DISPLACEMENT of the subwoofer. But DO NOT include displacement of the vent.

VENTED - SPL	Elite.12d4/2
Volume (cu.ft.)	1.75
Vent Opening (in.)	2.5 x 12
Vent Length (in.)	34
Tuning Freq	36Hz

VENTED - Normal	Elite.12d4/2
Volume (cu.ft.)	2.25
Vent Opening (in.)	2.5 x 12
Vent Length (in.)	31.5
Tuning Freq	33Hz

VENTED - SQ	Elite.12d4/2
Volume (cu.ft.)	3.0
Vent Opening (in.)	2.5 x 12
Vent Length (in.)	28
Tuning Freq	30Hz

## LED WIRING



The Elite.12 has three terminals. The two larger terminals are connected to the voice coils. The small terminal is used to power the LEDs with a +12v and ground connection only.

DO NOT CONNECT AN AMPLIFIER'S SPEAKER OUTPUT TO THE LED TERMINAL. It will damage the LEDs, this is not covered by warranty. Only use +12v and ground to power the LEDs.

## SPECIFICATIONS

T/S Parameters:	Elite.12d4	Elite.12d2
Re (Dcr)	1.7	1.0
FS (Hz)	31	30
Sd (SqM)	.05	.05
BL TM	14.4	12.2
Qms	3.23	3.5
Qes	.49	.57
Qts	.42	.49
Vas (liters)	31.1	20.5
Cms (uM/N)	85	60
Mms (gms)	300	428
Impedance	Dual 4	Dual 2

### FEATURES:

- 60mm of Peak to Peak Excursion
- Dual 4 and 2 Ohms Voice Coils
- 3.0" Premium OFC Copper Wound Voice Coil
- Dual Long Throw Spider Suspension
- Woven Tinsel Leads
- Composite Material Hybrid Cone
- High Excursion CAE/CAD Motor Design
- Vented Titanium-Aluminum Hybrid Former
- One Piece Aluminum Plated Dustcap with Tri-Blue LEDs
- High Roll Butyl Rubber Surround
- Nickel Plated 12 Gauge Speaker Terminal
- Optimized for Sealed or Vented Enclosures
- Rigid Powder Coated Anti-Resonant Castbasket

\*Specifications subject to change

\*\*Parameters are AFTER break in. Elite.12 does not require any special break in procedure. One to two weeks of normal use will naturally break in the suspension of the driver.

Specifications:	Elite.12d4/2
RMS Power Handling	1600 watts
Xmax (Peak to Peak)	60mm
Mounting Diameter	11 5/16in - 287mm
Mounting Depth	7 1/8in - 180mm

### Power Handling Note:

The Elite.12's recommended power range is 1200 to 1600 watts RMS for normal use. Driving the woofer with significantly higher RMS power will cause thermal failures (burnt voice coils) and will have no audible increase in output. A subsonic filter is also required when using a vented enclosure as it will increase reliability and performance drastically.

# PHOENIX GOLD

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Designed and Engineered in the USA

## LIMITED WARRANTY

Phoenix Gold warrants this product to be free of defects in materials and workmanship for a period of one (1) year from the original date of purchase. This warranty is not transferable and applies only to the original purchaser from an authorized Phoenix Gold dealer in the United States of America only. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Phoenix Gold will (at its discretion), repair or replace the defective product with new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

## INTERNATIONAL WARRANTIES

Products purchased outside the United States of America are covered only by that country's Authorized Phoenix Gold reseller and not by Phoenix Gold. Consumers needing service or warranty information for these products must contact that country's reseller for information.