

Warranty

LIMITED TWO YEAR CONSUMER WARRANTY:

Directed Electronics, Inc. promises to the original purchaser, to replace this product should it prove to be defective in workmanship or material under normal use, for a period of two years from the date of purchase from the dealer as indicated by the date code marking of the product **PROVIDED** the product was installed by an authorized Directed dealer. During this two-year period, there will be no charge for this replacement **PROVIDED** the unit is returned to Directed, shipping pre-paid. If the unit is installed by anyone other than an authorized Directed dealer, the warranty period will be one year from the date of purchase by the dealer as indicated by the date code marking of the product. This warranty is non-transferable and does not apply to any unit that has been modified or used in a manner contrary to its intended purpose, and does not cover damage to the unit caused by installation or removal of the unit. During this one-year period, there will be no charge for this replacement **PROVIDED** the unit is returned to Directed, shipping pre-paid. This warranty is void if the product has been damaged by accident or unreasonable use, neglect, improper service or other causes not arising out of defects in materials or construction. Units which are found to be damaged by abuse resulting in thermally damaged voice coils are not covered by this warranty but may be replaced at the absolute/sole discretion of Directed. **ALL WARRANTIES INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY ARE EXPRESSLY EXCLUDED TO THE MAXIMUM EXTENT ALLOWED BY LAW, AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT. DIRECTED HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS.** Unit must be returned to Directed, postage pre-paid, with bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number, and address, authorized dealer's name and address, and product description. Note: This warranty does not cover labor costs for the removal and reinstallation of the unit. **IN ORDER FOR THIS WARRANTY TO BE VALID, YOUR UNIT MUST BE SHIPPED WITH PROOF OF INSTALLATION BY AN AUTHORIZED DIRECTED DEALER. ALL UNITS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF DIRECTED DEALER INSTALLATION WILL BE COVERED BY THE LIMITED 1 YEAR PARTS AND LABOR WARRANTY.** Note: This warranty does not cover labor costs for the removal and reinstallation of the unit. **BY PURCHASING THIS PRODUCT, THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND DIRECTED SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN SAN DIEGO COUNTY, CALIFORNIA.**



Designed and Engineered in the USA by
Directed
ELECTRONICS, N.C.

EDORION
HIGH PERFORMANCE CAR AUDIO

subwoofer
owner's manual

H2 10.2

H2 10.4

H2 12.2

H2 12.4

H2 15.2

H2 15.4

SPECIFICATIONS							
Directed Part Number	27301	27303		27306	27308	27311	27313
Model Number	H2 10.2	H2 10.4		H2 12.2	H2 12.4	H2 15.2	H2 15.4
Fs (free-air resonance)	35.31	37.18		29.51	33.24	27.64	30.53
Vas (equivalent compliance, cu. ft.)	0.45	0.40		1.24	1.01	2.99	2.58
Vas (equivalent compliance, liters)	12.75	11.22		35.13	28.6	84.79	73.02
Qms (Q, mechanical)	6.82	7.14		6.8	7.57	7.12	7.55
Qes (Q, electrical)	0.73	0.82		0.69	0.89	0.84	1.04
Qts (total driver Q)	0.66	0.74		0.62	0.79	0.75	0.91
Re (DC resistance, ohms)	3.34	7.1		3.04	7.2	3.44	7.1
Z (nominal impedance, ohms)	4	8		4	8	4	8
Le (inductance, mh)	1.52	1.8		1.52	1.82	1.5	1.76
Efficiency (2.83v/1M, dB)	84.55	80.86		87.32	83.12	88.86	85.45
Xmax (one-way linear excursion, in.)	1.14	1.14		1.14	1.14	1.14	1.14
Xmax (one-way linear excursion, mm)	29	29		29	29	29	29
Power (continuous power handling)*	2000 watts	2000 watts		2000 watts	2000 watts	2000 watts	2000 watts
Peak power handling (music)**	2500 watts	2500 watts		2500 watts	2500 watts	2500 watts	2500 watts
Mms (total moving mass, grams)	201	197		240	232	307	288
Cms (mechanical compliance, μM/N)	101	93		121	99	108	94
Bl (motor strength, Tesla-M)	14.18	19.9		14.01	19.78	14.73	19.36
Sd (effective radiating area, sq. m.)	0.03	0.03		0.045	0.045	0.075	0.075
Sd (effective radiating area, sq. in.)	44.95	44.95		68.2	68.2	120.9	120.9
Frequency range (Hz)	30-2.5k	30-2.5k		30-2.5k	30-2.5k	30-2.5k	30-2.5k
Energy Bandwidth Product (EBP)	48	45		43	37	33	29
Driver Physical Dimension							
Speaker Displacement (cu. ft.)	0.14	0.14		0.16	0.16	0.22	0.22
Mounting hole diameter (in.)	9.25	9.25		11.25	11.25	14	14
Mounting depth (in.)	7.5	7.5		8	8	9.25	9.25
Basket diameter (in.)	11	11		13	13	15.75	15.75
Recommended Enclosures							
1500 Watt Sealed Enclosure (cu. ft.)*	0.66	0.66		1	1	2.5	2.5
2500 Watt Sealed Enclosure (cu. ft.)**	0.33	0.33		0.66	0.66	1.5	1.5
1500 Watt Vented Enclosure (cu. ft)*, ***	0.75	0.75		1.5	1.5	3	3
Port Tuning Frequency (Hz)	28	28		28	28	28	28
Port Diameter (inside, in.)	3	3		4	4	5	5
Equivalent Square Port (in.)	2.65 x 2.65	2.65 x 2.65		3.54 x 3.54	3.54 x 3.54	4.43 x 4.43	4.43 x 4.43
Port Length (in.)	26	25		26	23	19	16.8
2500 Watt Vented Enclosure (cu. ft.)*, ***, ***	0.6	0.5		1	1	2.25	2.5
Port Tuning Frequency (Hz)	28	28		28	29	30	30
Port Diameter (inside in.)	3	3		4	4	5	5
Equivalent Square Port (in.)	2.65 x 2.65	2.65 x 2.65		3.54 x 3.54	3.54 x 3.54	4.43 x 4.43	4.43 x 4.43
Port Length (in.)	25	25		27	24	21	18

1. Parameters listed are for conventional applications only, for further assist please call Tech Audio Support
2. Recommend enclosure are **NET Box Volumes**, speaker and port displacement are **NOT** calculated into the volume of the enclosure, you will need to add these volumes to calculate **GROSS** volume for the enclosure.
3. Please call Technical Audio support for further specifications and information: 1-800-876-0800 ext. 2032
Specifications subject to change without notice

* For **SQ** (sound quality applications) amps should be between **Pe** and **Peak** power ratings.
** SPL usage only! Not rated for continuous use at this level.
*** Sub-sonic filters should always be used and adjusted specifically for vented box designs.

