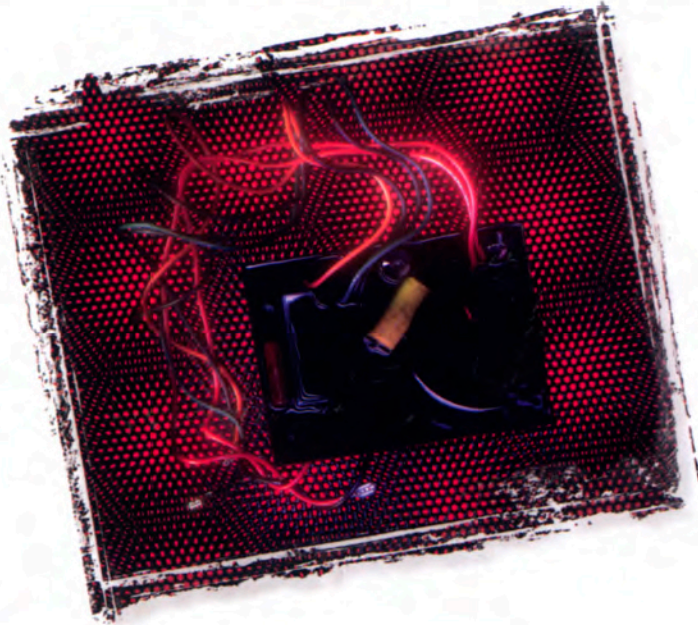


**Bass**

**Instrument**



**Loudspeakers**







The **Deep Red X™** series incorporates all the features of standard Deep Red enclosures with the addition of the coaxial mounted AX-HI 1" titanium compression high frequency driver and crossover network. Extending the frequency response to the upper audible limits, the AX-HI driver projects highs smoothly, and widely disperses them directly from the center of the cone driver. A deep red dome signifies the AX-HI driver is present, but actually all you need is one listen and you will know it's there.



Our **Deep Red™** series combines Bag End's long standing acoustical designs for bass instruments with modern state of the art materials and production techniques. The subtle deep red color blends toward black at a distance but up close it radiates a subtle deep ruby red color. Under the carpet the enclosure is made from the finest void free hard-wood plywood and incorporates precision machined joints and modern adhesives for unsurpassed road worthiness.



**Recommended amplifier size:** Amplifiers will vary greatly from different manufacturers. The amplifiers output power rating is only one part of the information required to choose an amplifier for your system. Different amplifiers with the same output power rating will sound different and have various feelings of power and fidelity. Added to this is the various playing styles and techniques of the individual musician which will utilize various degree of dynamic range. With a playing style utilizing wide dynamic range you may successfully choose the higher power rating while a hard driving rock style would be safer choosing the lower power rating and adding additional speakers as required for a high output system. A system limiter is always a good choice to prevent the power amplifier from clipping which can both sound bad and cause speaker damage.

**Frequency Response:** The frequency response specification is  $\pm 6$  dB although typically the system will fall within a  $\pm 3$  dB throughout the majority of the spectrum. The  $\pm 6$  dB points is the highly useful range the system will easily respond within utilizing various equalization and tone controls found on a typical instrument preamp.

Model	D10-D	D10-B	S12-D	D12-D	D12-B	S15-D	S15-B	S15B-D	S15B-B
Impedance	4 $\Omega$	4 $\Omega$	8 $\Omega$	4 $\Omega$	4 $\Omega$	8 $\Omega$	8 $\Omega$	8 $\Omega$	8 $\Omega$
Continuous Sine Wave Power Handling	400	400	200	400	400	200	200	200	200
Peak Music Program Power Handling	800	800	400	800	800	400	400	400	400
Sensitivity 1 Watt/1 Meter	100	100	100	103	103	103	103	103	103
Frequency Response	50-6kHz	50-6kHz	50-5kHz	50-5kHz	50-5kHz	50-4kHz	50-4kHz	40-4kHz	40-4kHz
Crossover Frequency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parallel Input Connectors*	P+B	P+B	P+B	P+B	P+B	P+B	P+B	P+B	P+B
Dimensions H x W x D (in inches)	18x22x12	18x22x12	15x18x15	28x18x15	28x18x15	18x18x15	18x18x15	18x28x24	18x28x24
Net Weight (in pounds)	54	57	36	77	80	44	47	79	83
Components	2, E-10	2, E-10	1, E-12	2, E-12	2, E-12	1, E-15	1, E-15	1, E-15	1, E-15

Model Key: S = Single, D = Double, Q = Quad Cone diameter in inches 10, 12, 15, 18 X = Coaxial, E = ELF, B = Lower bass

\*Input Connectors Key: P = Two parallel 1/4" phone jack, B = One dual banana jack, S = Two parallel Neutrik Speak-on

After "-" Cabinet type/finish B = Black



L to R S18B-B S15BB S15-B



For 20 years Bag End has been using the multi ply birch plywood from the upper baltic region in Europe, well known as the region producing the highest quality plywood in the world. Bag End has selected the finest grade of this superior material to produce the **Natural Wood** enclosures. Beautiful and yet rugged and roadworthy, designed and built to last a lifetime, the **Natural Wood** series offers the quality and performance that has made Bag End bass systems a popular choice among professionals.



The Deep Red Sub incorporates **BAG END ELF** technology to extend the frequency response as low as 18 hertz. With the capabilities to provide flat frequency response well below the audible range of human hearing the **DEEP RED SUB** can quickly and accurately reproduce the entire fundamental spectrum of any bass instrument. The system will perform well with conventional crossovers in a bi-amped configuration but to really experience the maximum fidelity and output use in conjunction with the **ELF** electronic crossover. The **Deep Red SUB** systems are designed to be bi-amped, requiring a dedicated amplifier channel for the sub and the upper range system.



L to R S18E-D S15ELT-D D12E-D



The **ELF M2** is an electronic crossover featuring dual integrated ELF low frequency output and stereo hi Pass outputs. The front panel controls include low and high frequency gain and system protection threshold. The **ELF-M2** includes ELF Concealment protection and Hi frequency CVR limiter protection. The **ELF-M2** will enhance any bi-amped system using a Deep Red SUB enclosure.

S18B-D	S18B-B	D10X-D	D10BX-D	Q10X-D	Q10BX-D	D12X-D	S15X-D	S15X-DF	D12E-D	S18E-D	S18ELT-D
8Ω	8Ω	4Ω	4Ω	8Ω	8Ω	4Ω	8Ω	8Ω	4Ω	8Ω	8Ω
300	300	400	400	800	800	400	200	200	400	400	400
600	800	800	800	1600	1600	800	400	400	800	800	800
101	101	100	100	103	103	103	103	103	96 <sup>1</sup>	96 <sup>1</sup>	94 <sup>1</sup>
36-2kHz	36-2kHz	50-20kHz	40-20kHz	50-20kHz	40-20kHz	50-20kHz	50-20kHz	50-20kHz	18-100Hz <sup>2</sup>	18-100Hz <sup>2</sup>	18-100Hz <sup>2</sup>
N/A	N/A	3.7kHz	3.7kHz	3.7kHz	3.7kHz	3.7kHz	3.7kHz	3.7kHz	N/A	N/A	N/A
P+B	P+B	P+B+S	P+B+S	P+B+S	P+B+S	P+B+S	P+B+S	P+B+S	B+S	B+S	B+S
22x30x20	22x30x20	18x22x12	18x22x18	27x22x12	27x22x18	28x18x15	18x18x15	23x18x15	28x18x15	21x22x18	21x22x12
88	91	62	70	92	106	83	50	59	76	72	59
1, E-18	1, E-18	1, E-10 1, E10X	1, E-10 1, E-10X	3, E-10 1, E-10X	3, E-10 1, E-10X	1, E-12 1, E-12X	1, E-15	1, E-15X	2, EL-12	1, EL-18	1, EL-18

led birch, D = Deep red carpet, DF = Deep red carpet floor monitor

<sup>1</sup>Sensitivity at 60Hz, <sup>2</sup> With ELF-M2 or ELF-M Dual integrator





At Bag End we bring the finest in high technology speaker systems to bass instrument reproduction. Our background in providing loudspeakers systems for the motion picture post production and recording industry along with theme park, theatrical and concert PA applications brings insight and technology to our desire to produce the finest bass instrument systems.

Bag End offers the widest frequency and dynamic range of any loudspeaker system available. They are particularly well suited for the demands of today's instruments, musicians, and listeners.

A system including both the ELF low frequency and AX-HI high frequency technology responds beyond human hearing in both directions. A flat smooth response throughout the midrange insures that instruments are reproduced without coloration or distortion.

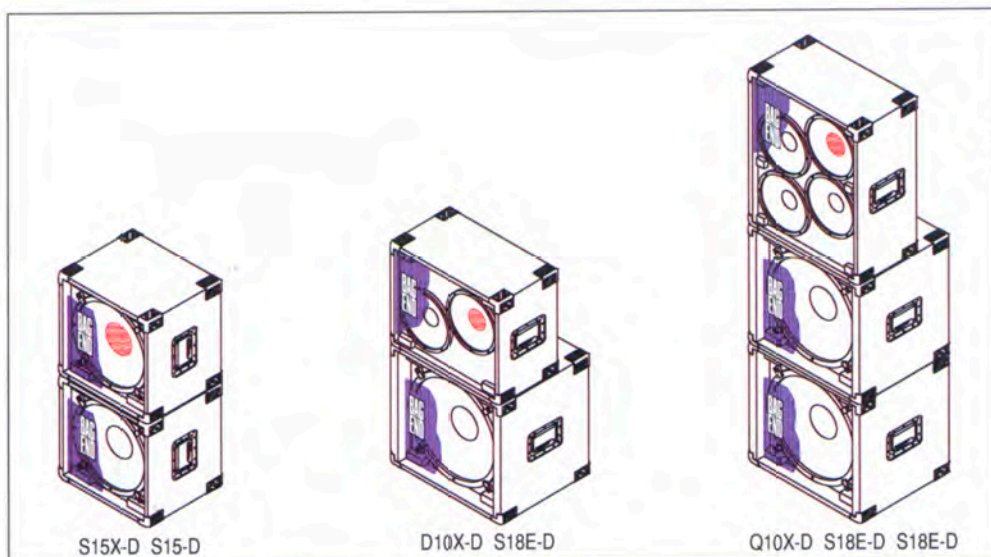
Bag End loudspeaker systems are designed around several standard dimensions allowing for the stacking of various system configurations. Only your imagination will limit the variety of possible system designs, ranging from a small portable system, a larger bi-amped and even a stereo bi-amped system. Often a larger system may be broken down into several smaller systems for rehearsals, recording sessions and smaller gigs. Bag End's commitment to standards and modularity allows for stacking and acoustical compatibility between current and past models to insure the ability to build larger systems over time without replacing original units.

A Bag End modular loudspeaker system is a professional's choice. Once many musicians own a Bag End modular system they are never satisfied with standard bass amps again.

Deep Red, Deep Red X, Deep Red SUB, Natural Wood and BAG END are registered trademarks of Modular Sound Systems Inc. ELF is a trademark of Long/Wickersham Labs



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Shown here are only a few of the many possible cabinet combinations.

