

# IPS10E-SHV2 INFRASUB™

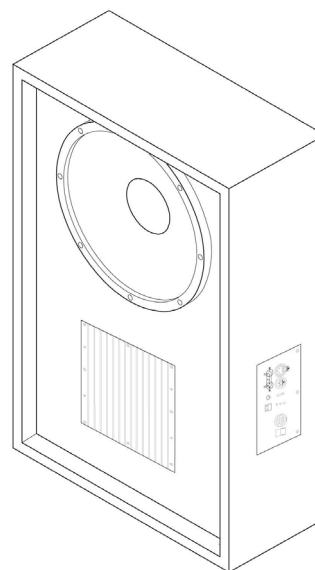
## APPLICATIONS

Installed Special Effects	Mastering Facility
Museum Interactive Displays	Home Theater
Film and Video Post Production	Foreground Music Systems
Recording Studio	

## DESCRIPTION

The IPS10E-SHV2 is a self-powered and internally Infra™ processed single 10" bass system designed for extended life continuous duty permanent installations. The internal Minima 3™ amplifier and Infra™ processing provides for convenient implementation and wiring. The internal Infra™ integrator, amplifier and loudspeaker process the full range signal into a flat response low frequency acoustic output. The Dynamic Filter™ protection threshold is internally preset to eliminate distortion or accidental overload. This insures the maximum output and robust system protection with virtually no audible effect.

The audio input incorporates an InGenius® balanced line receiver, providing very high common mode rejection, to eliminate noise often present in systems with less optimized grounding and wiring schemes. The internal Minima 3™ amplifier incorporates a high efficiency low power consumption green design with advanced digital switching to automatically switch and accept line voltage from 100 to 240 volts.



## SPECIFICATIONS

### System Type

Infrasub™ sealed chamber 0.75 ft<sup>3</sup>

### Enclosure

18 mm and 12 mm birch plywood

### Finish

Black Ro Tex™ true water born environmental finish

### Grille

Not included  
Optional 16 Gauge black powder coated perforated steel or black nylon cloth over wood frame

### Low Frequency Components

EL-10 10" Infra™ extended low frequency transducer cone, 2.5" Voice coil, 68 oz Magnet

### Input Connector

2 XLR summing inputs w/ one XLR male loop through, mounted on 20.5" side

### Internal Amplification

Minima 3™

### Input Impedance

10K ohms

### Input CAL Sensitivity

+4 dBu

### Maximum Continuous Amplifier Power

300 W

### LED Indicators

Green - On  
Yellow - Dynamic Filter™ threshold

### Mains Voltage Requirements

Auto sensing  
100 / 120 / 240 V

### Mains Current Requirements

1.6 A @ 120 V  
0.8 A @ 240 V

### Hardware

Optional fly points available

### Fly Points Safe Working Load

Optional F4 rigging points  
200 lbs Upper most points

### Crossover Type

Internal Infra™ integrator inside

### Frequency Response

8 Hz to 95 Hz ±3 dB

### Maximum Calculated Continuous Acoustic Output

Half Space @ 1 Meter  
10 Hz - 79 dB SPL  
20 Hz - 91 dB SPL  
40 Hz - 103 dB SPL  
80 Hz - 113 dB SPL

### Polarity

A positive asymmetrical signal applied to pin 2 will result in a positive asymmetrical acoustical pressure

### Dimensions

20.5" h x 16" w x 7" d

### Weight

42 lbs

### Other Options

REMCON-2 Optional remote Dynamic Filter™ threshold indicator

### Custom Finishes

Optional custom finishes include white or unfinished ready to paint.

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# IPS10E-SHV2 INFRASUB™

## ABOUT INFRASUB™ TECHNOLOGY

Almost all designs and specifications for subwoofer systems are fixated on the frequency response domain. However, the impression of power and quality of a loudspeaker is equally related to the time domain. The long wavelengths associated with low frequencies make this particularly true with subwoofers. Likewise, the maximum SPL is not a very reliable way to judge the impact of a subwoofer. A poor time domain performer will not have the same impact or natural musically connected sound as a Time-Aligned™ Infra™ system. The reason that an Infra™ subwoofer sounds dramatically better is because of their superior time domain performance, as well as their extended low frequency response. The Infra™ subwoofer maintains the bass energy in a tight packet, aligned with the upper range signal, providing a greater body impact and a seamless musical connection with the main loudspeakers. Conventional subwoofer designs perform poorly in the time domain because designers have used methods that sacrifice the phase response for more control over the frequency response (e.g.: steep low pass filter slopes, vented speaker enclosures, and narrow bandwidth systems). With the Infra™ technique, we do not degrade the phase response while extending the frequency response.

While the Infra™ dual Integrator does function as the system crossover, it does so without using a conventional low pass filter. The Infra™ integrator applies an inverse electrical response to the acoustical response of the Infra™ loudspeaker in its sealed enclosure. This provides the extended frequency response while maintaining the hi fidelity sound quality associated with a sealed box design. This design approach requires the most amplifier power to be used at the lowest frequency, thus we implement the Dynamic Filter™ technology to protect the system from the bottom up, affecting the lowest frequency first and leaving the middle and upper bass unaffected. The Dynamic Filter™ is a complimentary technology to the Infra™ system taking unique advantage of the Infra™ design approach, to implement a reliable protection scheme that is transparent and inaudible to the listener. When comparing a genuine Bag End® Infra™ loudspeaker system to any other, our technology and design is easy to hear and appreciate. The dramatic clarity, realism, and overall pleasant sound of an Infra™ system is well noted throughout the world.

## ABOUT MINIMA 3™ SELF POWERED

The Minima 3™ amplifier is both a high fidelity and a high efficiency amplifier. With efficiency well over 80%, it provides more power to the loudspeakers, and creates less heat in the amplifier. In real world applications there is practically no heat emitted from the amplifier and thus it requires no cooling fan. The universal AC power input automatically accepts 100, 120 or 240 volts allowing it to operate anywhere in the world.

## ABOUT BAG END® LOUSPEAKERS

Bag End loudspeakers began in 1976 in a small shop by people dedicated to the pursuit of making high quality loudspeaker systems. Over the decades Bag End® has employed the very best construction techniques and innovative acoustical designs into their products. The ground breaking introductions of the Time-Align® and ELF™ Technologies into sound reinforcement and studio monitor loudspeakers in the 1980's was followed by Minima One™ self-powered systems and the highly unique E-Trap™, electronic bass trap. Over the decades, Bag End® has been a leader in providing uniquely good sounding products and extraordinary service to our customers world wide.

## DIMENSIONS

