

# IPS12E-N PERFORMANCE SYSTEM

SELF-POWERED

## APPLICATIONS

Electric Bass Guitar

Chapman Stick

Acoustic Bass Instruments

## DESCRIPTION

The Bag End® IPS12E-N is a compact self powered single 12" low frequency musical instrument speaker designed to enhance the low frequency performance of a full range instrument system. Like all IP series cabinets it is a sealed Infra type system utilizing our internal Infra processor. It has damped spring loaded handles, sturdy rubber feet, and an 18 mm thick birch plywood cabinet covered in our unique Nebula finish. A Bag End® Minima 7™ power amplifier is internally mounted and 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 via a standard IEC inlet.

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 includes two balanced summing inputs and a direct through output, providing high common mode rejection, to eliminate noise often present in systems with less optimized grounding and wiring schemes. Includes a connection for optional REMCON-2, remote dynamic filter threshold indicator. Its excellent sound and modest size make the IPS12E-N a great choice to add to a multi way instrument system. From top to bottom it includes the same legendary Bag End® quality and workmanship known for decades by the best musicians throughout the world.



## SPECIFICATIONS

### System Type:

Infrasub™ sealed chamber 1.4 ft³

### Enclosure:

18 mm 13-ply birch plywood

### Finish:

Coated Nebula finish

### Grille:

16 Gauge black powder coated perforated steel

### Low Frequency Components:

EL-12B 12" low frequency transducer cone, 2.5" Voice coil, 80 oz Magnet

### Input Connector:

2 XLR summing inputs w/ one XLR male loop through

### Internal Amplification:

Minima 7™

### Input Impedance:

10K ohms

### Input CAL Sensitivity:

+4 dBu

### Maximum Continuous Amplifier Power:

750 W

### Overload Protection:

Internal Dynamic Filter™ protection

### LED Indicators:

Green - On

Yellow - Dynamic Filter™ threshold

### Mains Voltage Requirements:

Auto sensing  
100 / 120 / 240 V

### Mains Current Requirements:

2.3 A @ 120 V  
1.2 A @ 240 V

### Hardware:

2 – Handles  
8 – Feet

### Frequency Response:

8 Hz to 95 Hz ±3 dB

### Polarity:

A positive asymmetrical signal applied to the + terminal will result in a positive asymmetrical acoustical pressure

### Dimensions:

15" h x 18" w x 15" d  
38 cm x 46 cm x 38 cm

### Weight:

40 lbs  
19 kg

### Other Options:

REMCN-2 optional Remote Dynamic Filter™ threshold indicator

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## ABOUT MINIMA 7™ AND INFRA™ SELF PROCESSING

Infra™ self processed systems incorporates our analog Infra™ dual integrator into the Minima 7™ input circuit. Infra™ Self Powered Systems accept a full range line level audio signal. They also utilizes internal Infra™ processing to provide the extended low frequency acoustical response, as well as a uniform roll off of the upper range of the subwoofer. The Dynamic Filter™ protection is included and preset to the amplifiers sensitivity, requiring no external setup. The Minima 7™ 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 NEBULA

After 25 years the Deep Red series is now replaced by Nebula. Nebula is our newest loudspeaker series incorporating decades of experience into highly advanced instrument loudspeaker systems. Many of the same models included in Nebula you may recognize from the Deep Red series except they end with an "N" for Nebula rather than a "D". The same standard dimensions used in the current Oiled Birch cabinets and the previous Deep Red series are implemented allowing multiple Nebula models to be perfectly stacked in many configurations. The cabinets come with rubber feet on

two sides and matching feet pockets on two sides allowing cabinets to be securely interlocked in multiple directions. The Nebula finish is water tight, abrasion resistant, UV resistant, chemical resistant and extraordinarily strong. It's a beautiful deep purple, almost black, and among the most resilient coatings in the world. Our machined aluminum speaker mounting clamps are secure and strong and allow for easy driver exchange. Flush mounted spring bail handles provide easy handling by keeping hands and wrists away from the cabinet. The handles are made of durable coated steel. Cabinets include a rugged 16 gauge powder coated steel grille and flush mounted input plate. Every detail in the Nebula series is perfectly engineered and constructed to insure years of trouble free operation.

## ABOUT MUSICAL INSTRUMENT SYSTEMS

Musical Instrument Systems, especially loudspeaker design for use with stringed instruments, require more than just technical expertise. Over the years Bag End® has employed the highest degree of technology into these systems, but beyond that, the loudspeaker becomes an extension of the instrument itself. A well designed loudspeaker will reproduce all the characteristics of the instrument, but it also adds its own frequency response, distortion and directivity characteristics. Electronic equalization in the instrument and preamp is also widely used. Our loudspeaker designs include artistic subjectivity along with technical excellence to consider and incorporate these variables. Since before Bag End® was formed in 1976 the founders were both technicians and musicians and they

incorporated both good taste and technology into the sound design of the early systems. Over the years some of the original designs proved to be exactly what many musicians wanted and therefore, have not changed for over 4 decades.

In the 1970's early Bag End instrument systems were single and double 12" and 15" models. These early models were inspired by cabinets Alembic built for Jefferson Airplane, Grateful Dead and others. At that time we designed a modular system of dimensions for arraying and stacking cabinets in various configurations and refined the hardware and finish. The first cabinet built by Bag End was a double 12, serial #1. We sold this one to Mike Sasseti in 1976 and 35 years later Mike bought his second double 12 and he gave us back the #1. While we have refined manufacturing processes and now offer a variety of options, over time our products have remained remarkably consistent and compatible. Rather than changing models every year we standardized our basic dimensions and designs and kept our products consistent over long time periods. Some of the earliest system designs remain in production today and are virtually unchanged. Among them our single 12 and single 15 have become industry standards. Based upon timeless designs and principles they are hard to beat. You might say, if you get it right the first time you don't need the new improved version. Bag End systems are made to sound great, last long, and be serviceable. Used Bag End cabinets demand the highest price because most musicians keep them. Its an investment for a lifetime.

## DIMENSIONS

