

# High Frequency Horn PH-641S

## Applications

### PH-641S HIGH FREQUENCY HORN

The P Audio PH-641S is a wide bandwidth high frequency horn. The PH-641S is a constant directivity design that features a square mouth that allows a "rotatable" directivity configuration. The PH-641S may be rotated between a 60 degree horizontal and 40 degree vertical pattern to a 40 degree horizontal by 60 degree vertical coverage pattern. The flat front design allows the PH-641S to be used in modern professional sound reinforcement systems where a flat front system geometry is specified. The included angles of 60 degree and 40 degree make the PH-641S a very high performance medium to long throw high frequency wave guide.

The PH-641S features a 1.0 inch (25.4mm) diameter "screw on" style throat and is compatible with many of P Audio's PreNeo and BM-D series high performance compression drivers. The 1.0 inch throat geometry is an industry standard and this makes the PH-641S compatible with many other compression drivers as well. This throat geometry also provides for controlled beamwidths at higher frequencies as well. The medium format mouth area provides excellent acoustic loading to below 1000Hz, making the PH-641S ideal for wide range and low frequency crossover points.

The PH-641S construction is a rugged glass filled ABS and is fully braced to provide excellent structural support to the mated thread on style compression driver. The horn mouth dimensions of 12 inches (315mm) by 12 inches make the PH641S an ideal mate for both 12 inch low frequency woofers as well as 15 in woofers. The PH-641S is an ideal choice for two way system designs where medium to long throw is required. The standard screw on style throat allows this high performance horn to be used with small and medium format compression drivers and will yield a profession level directivity combined with the economy found in small and medium format compression drivers.

The PH-641S may be used with the following P.audio professional compression drivers. ( or any industry standard compatible driver )

- BM-D340S
- BM-D440S
- BM-D450S
- PreNeo-340S



## Specifications

Nominal Coverage Angle ( H° X V°) - 6 dB.	60° x 40°
Cut Off Frequency ( Hz.)	400 Hz
Throat Diameter	25.4mm (1")
Mounting Type	SCREW ON
Construction	Injected Polymer A.B.S with glass fiber filled Black Polycarbonate

### MOUNTING DIMENSIONS :

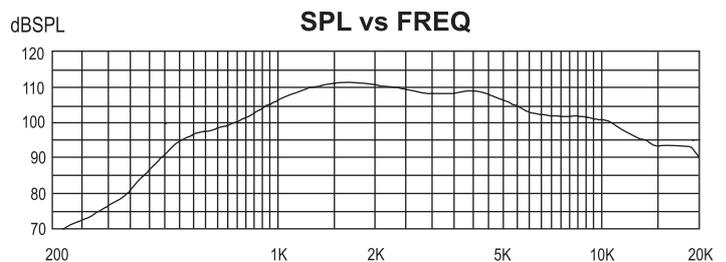
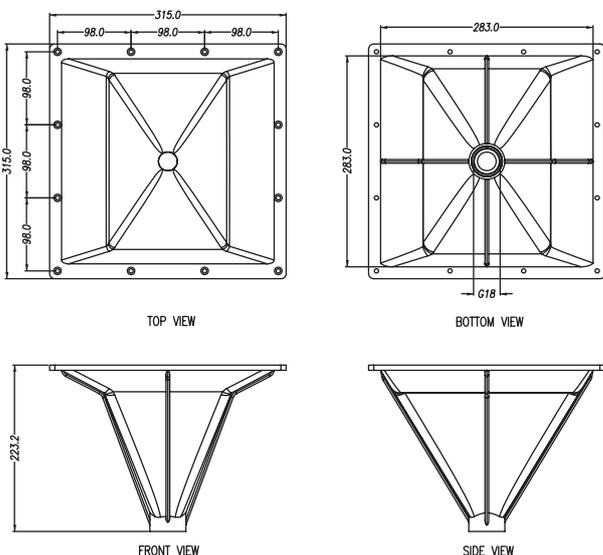
Rear Height :	283mm (11.14")
Rear Width :	283mm (11.14")

### OVERALL DIMENSIONS :

Mount Height :	315mm (12.40")
Mount Width :	315mm (12.40")
Length :	223mm ( 8.77")

### BAFFLE CUTOOUT DIMENSIONS :

Height :	281mm (11.06")
Width :	286mm (11.25")
Net Weight :	1.3kg (2.86 lbs)
Shipping Weight :	1.8kg (3.96 lbs)
Packing Dimension :	325mm x 325mm x 255mm 12.79" x 12.79" x 10.03"



### Response of horn with BM-D440S

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