# **SH69**

# 3 Way Full Range Loudspeaker





The SH69 is a 3-way loudspeaker design that has the benefit of true modular array-ability. The SH69 houses (2) x 12" LF drivers, (6) x 4" MF drivers and (1) x 1" exit HF compression driver, all mounted within a single 60° x 90° horn. Utilizing our patented Synergy Horn™ technology, we uniquely place drivers within the horn in unison with a Synergy crossover network to allow for proper phase alignment between frequency bands. This permits the physically separated bands to combine and emerge from the horn as a single source, greatly reducing off axis distortions in frequency response and allowing for greater clarity at long distances. Furthermore, out of band harmonic distortion is reduced by the use of acoustic low pass filters on the low and mid frequency drivers.

The 13-ply Baltic Birch used throughout the enclosure is encased in PolyUrea for protection from impact and atmospheric conditions. Install and touring versions are both equipped with multiple M10 rig points. Our EW (Extreme Weather) variant offers the ultimate in protection from the elements due to the use of high-density polyurethane panels impregnated with fiberglass fibers in the place of standard plywood.

As an added layer of protection we include our Sentinel™ high frequency driver protection circuitry which is a multistage limiter that protects the high freq driver in the event of overloads (peaks or long term). It is inaudible during normal operation, so dynamic range is not compromised. Utilize our DNA amplifiers or processor for maximum performance and protection with industry leading DSP capabilities.

#### **Performance Specifications**

#### **Operating Mode**

Single channel amplified three-way loudspeaker

#### Operating Range

55Hz - 18KHz +/-3dB 33Hz - 24KHz - 10dB

## Coverage Pattern

60 x 90

#### Transducers

Low 2x12", Mid 6x 4", High 1x1"

#### **Power Handling**

1000 W Cont. | 4000 W Peak

**Sensitivity** measured as 2.83V @1m distance

99 dB

Maximum SPL (continuous | peak)

126 dB | 132 dB

#### M Noise

Coming Soon

#### Impedance

4 Ohm

#### **Recommended Power Amplifier**

2,000 Watts

#### **Physical Specifications**

#### Connections (SH69-I/SH69-T)

(2) Neutrik NL4 Speakon wired in Parallel

Pin 1+/- | Full Range

Pin 2+/- | Pass Through

#### Connections (SH69-I-EW)

1x 2 Conductor Lead-in Wire

#### **Mounting / Suspension Points**

(2) M10 yoke points (SH69-I/SH69-I-EW)

M10 rigging points

#### **Dimensions / Weight**

34 x 21 x 17 in. | 864 x 533 x 432 mm.

116 lbs | 52.62 Kg

#### Finish

Black polyurea coated enclosure w/ matte black grille, or White polyurea coated enclosure w/ matte white grille Gray UV resistant painted enclosure w/ matte grey grille

## **Enclosure Material**

18mm Baltic Birch, polyurea coated

# **Options**

SH69-I-EW Extreme Weatherized Version

SH69-I Install Version

SH69-T Black Touring Version

#### **Accessories**

BRKT-SH69-U U-Bracket for the SH69/SH69HT (Wall or Ceiling)

COVER-SH69 Protective Cover

BRKT-FSKIT Connects 2 Units w/ central pic point bar

BRKT-MBAKIT Connects 2 Units

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# 3 Way Full Range Loudspeaker

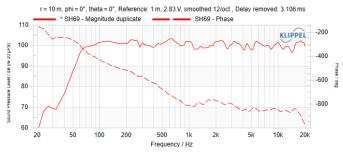


# **ARCHITECT/ENGINEERS SPECS**

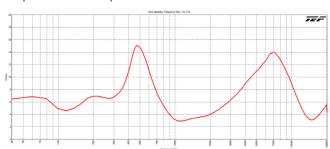
The loudspeaker shall utilize the synergy Horn/Tapped Horn patent-pending enclosure covering three pass bands. The coverage pattern shall be  $60^{\circ}$  horizontal x  $90^{\circ}$  vertical. The loudspeaker shall have an operating rage of +/- 3 dB 55 Hz – 18 kHz. Sensitivity of 99 dBSPL @ 1m. Output of 126 dBSPL/132 dBSPL Peak. Power handling shall be 1000 Watts continuous, 4000 Watts peak. The impedance shall be nominal 4 ohms.

The loudspeaker shall be constructed of 13 ply Baltic birch, water resistant Polyurea coated, properly braced for the intended use and a rugged steel grill. The connectors shall be Neutrik NL4. The Loudspeaker shall be the Danley Sound Labs SH69.

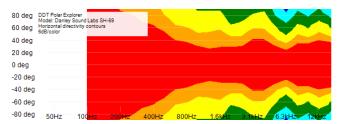
# Frequency Response



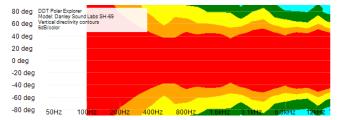
## Impedance Response



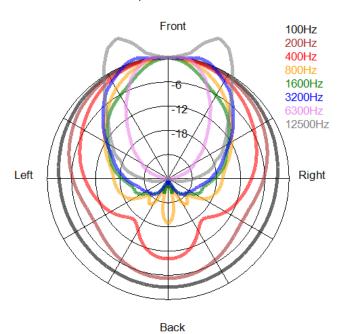
# Horizontal Directivity Contour



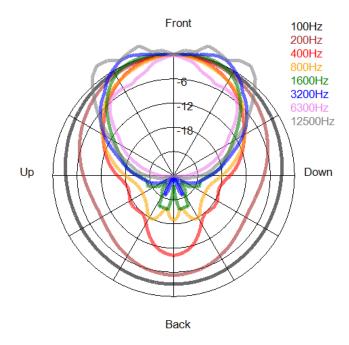
Vertical Directivity Contour



#### Horizontal Polar Response



# Vertical Polar Response



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