

# OS62

## 3 Way Outdoor Loudspeaker



The OS62 utilizes two of our patented technologies, the Synergy Horn and Paraline Technology, to deliver crystal clear audio at very high output levels and cover audiences at extremely long distances.

The mid and high frequencies are delivered via a Neodymium ring-radiator coaxial compression driver (1.4" exit/4.0" voice coil & 1.0" exit/2.5" voice coil) paired with our Paraline Technology. As with all of our patented Synergy Horns the low frequencies share the same horn as the mid and high frequency driver and feature 4 x 8" Neodymium, high output low frequency transducers. The extremely compact Synergy Horn offers a uniform 60° x 20° coverage pattern.

The three-way powerhouse is delivered via a single amplifier channel thanks to our robust Synergy crossovers, this allows for proper phase alignment between frequency bands, permitting 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. As an added layer of protection we include our Sentinel™ high frequency driver protection circuitry which is a multistage limiter that protects the high frequency driver in the event of overloads (peaks or long term). It is inaudible during normal operation, so dynamic range is not compromised. Utilize our amplifiers or processor for maximum performance and protection with industry leading DSP capabilities.

The OS62 is manufactured from a thermo-molded poly-composite and features a two stage stainless grille with hydrophobic screen to give it an IP55 rating. Also included is a heavy-duty aluminum mounting bracket and angle strap.

### Performance Specifications

#### Operating Mode

Three-way single channel amplified

#### Operating Range

128Hz - 10KHz -3dB

105Hz - 12KHz -10dB

#### Coverage Pattern

60° x 20°

#### Transducers

Low 4x8", Mid 1x4", High 1x2.5"

#### Power Handling

800 W Cont. | 3200 W Peak

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

107 dB | 110 dB within the 2KHz - 8KHz range

#### Measured Maximum SPL AES2-2012

143.4dB peak, 128.5dB Z slow, 127.2dB A slow

#### Impedance

8 Ohm

#### Recommended Power Amplifier

800-1600 Watts @ 8 Ohm

### Physical Specifications

#### Connections (OS62-NL)

(2) Neutrik NL4 Speakon wired in Parallel

Pin 1+/- | Full Range

Pin 2+/- | Pass Through

#### Connections (OS62)

1x Gland nut - 2 Conductor 14 AWG x 6ft. Lead-in Wire

#### Mounting / Suspension Points

U-bracket included - 3x 3/8 - 16 TPI Studs

Pole Mount Kit Available

#### Dimensions / Weight

32.25 x 26 x 14.5 in. | 820 x 660 x 368 mm.

95 lbs | 43 Kg

#### Finish

Matte Gray - Aluminium Bracket & Grill

Matte Black - Black Powder Coated Bracket & Grill

Matte White - White Powder Coated Bracket & Grill

#### Enclosure Material

Thermal Molded Poly-composite

#### Options

OS62-G Gray Install Version

OS62-B Black Install Version

OS62-W White Install Version

OS62-G-NL Gray Install Version W/ NL4 Inputs

OS62-B-NL Black Install Version W/ NL4 Inputs

OS62-W-NL White Install Version W/ NL4 Inputs

#### Accessories

BRKT-PMK1 Pole Mount Kit for 1 OS Speaker

BRKT-PMK2 Pole Mount Kit for 2 OS Speakers

BRKT-PMK1-HD Heavy Duty Pole Mount Kit for 1 OS Speaker, 1 THmini15

BRKT-PMK2-HD Heavy Duty Pole Mount Kit for 2 OS Speaker, 1 THmini15

BRKT-SAK Safety Anchor Kit

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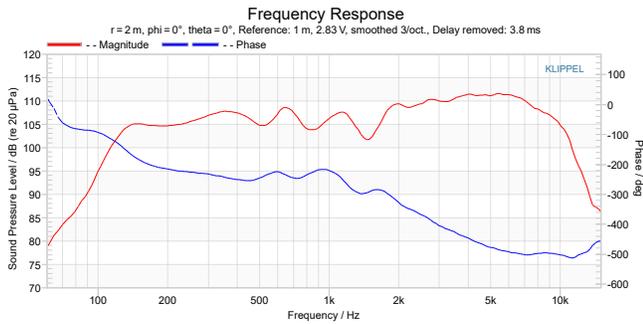
## 3 Way Outdoor Loudspeaker



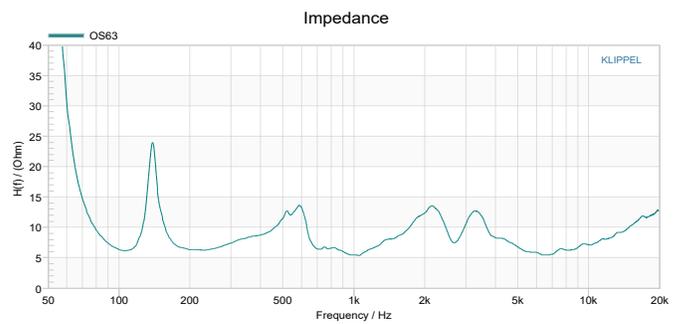
### ARCHITECT/ENGINEERS SPECS

The OS62 loudspeaker, a product of Danley Sound Labs, shall integrate the proprietary Synergy patented crossover network in conjunction with its designated driver configuration. The specified coverage pattern for the loudspeaker shall be 60° x 20°. Its operational frequency range shall be defined from 105Hz to 12KHz, with a tolerance of -10dB. When subjected to an input of 2.83V, the loudspeaker's sensitivity shall be quantified as 107 dB SPL at a standardized distance of 1 meter. Utilizing 18dB crest factor music noise, the OS62 is capable of delivering audio at levels of 143.4dB peak, 128.5dB Z slow, and 127.2dB A slow, also measured at 1 meter. Regarding power considerations, the loudspeaker shall handle a continuous power of 800 Watts and shall withstand peak power levels up to 3600 Watts. The construction material employed for the OS62 shall be a thermally molded Poly-composite.

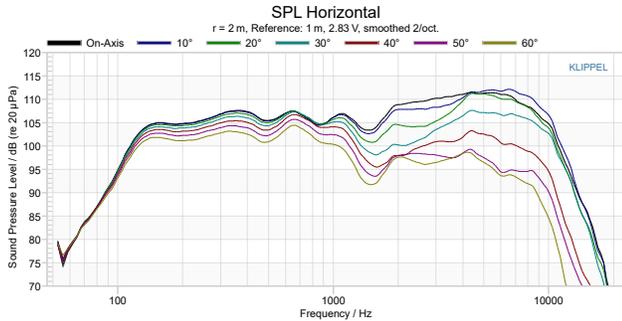
#### Sensitivity



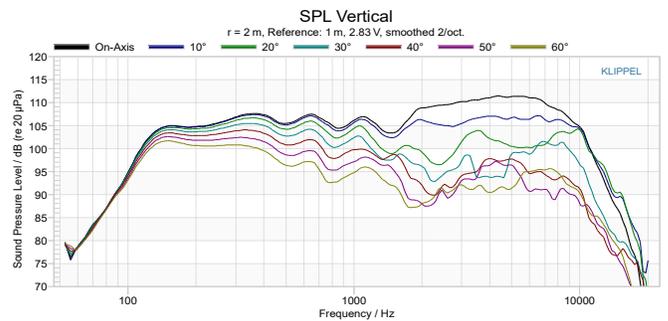
#### Impedance



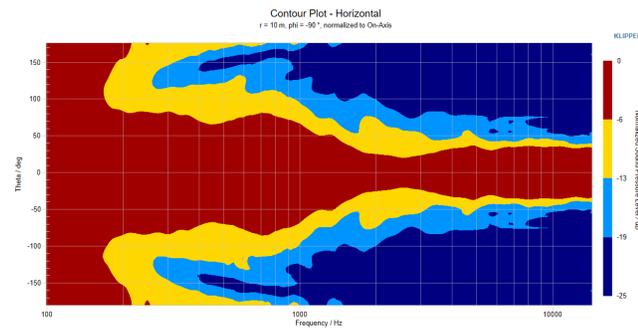
#### Horizontal Response



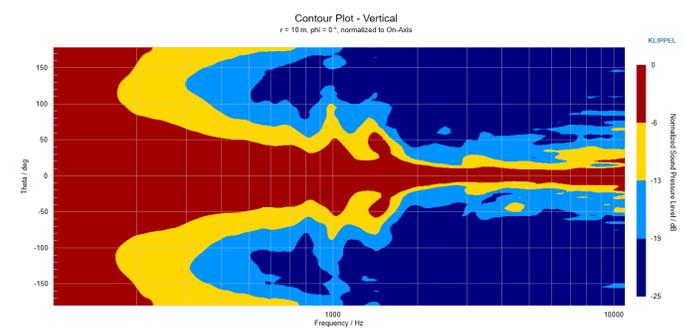
#### Vertical Response



#### Horizontal Directivity Contour



#### Vertical Directivity Contour



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