



# kiT12+



## APPLICATIONS

Live Sound Reinforcement  
Theaters  
Houses of Worship  
Dance Clubs  
Cruise Ships  
Entertainment Venues  
Educational Facilities

## FEATURES

kiT Rigging Corners  
High Output  
LF Device: 12 in. (304.8mm)  
HF Device: Exit: 2 in. (50.8mm);  
Voice Coil Diam. 3 in. (76.2mm)  
Integral Vertical Pole Mount [0° fixed]  
Rotatable 90° H x 40° V HF  
DSP + 3200W Amplifier  
(2) XLR Connectors  
(1 XLR-F In, 1 XLR-M Thru)  
(2) PowerCon-20a Connectors  
(1 PowerIn, 1 PowerOut)

## GENERAL DESCRIPTION

kiT12+ is a full range, high output loudspeaker ideal for speech and music reproduction. The kiT12+ is one of Clair Brothers most versatile full range speakers.

Exceptional intelligibility, high output performance and durability make the kiT12+ an excellent choice for virtually any indoor or outdoor application.

The kiT12+ has been engineered for optimal individual performance or as part of a multiple cabinet system with added flexibility to mount vertically or horizontally, or on pole mount with subwoofer base. Ground stack and flown applications with companion kiT Series subwoofers are possible.

The cabinet features a custom 12" transducer and one 2" exit/3" voice coil diameter+ high frequency driver coupled to a 90° H x 40° V (or 60° H x 40° V) rotatable constant directivity horn that delivers naturally smooth uniform coverage in both near-field and medium throw applications.

The kiT12+ is powered by an integrated 2 ch. 3200W power amplifier module that includes internal DSP loudspeaker processing: Xover, EQ and Limiter. The processing is factory programmed and provides the user with the choice between four presets that are specifically designed for various applications and array

configurations. High-pass filter frequency may be set per application by integrated factory presets. (See kiT+ Power Module for detailed specifications on amplifier and dsp modules).

For a cabinet of its size the kiT12+ offers extremely efficient low-end response to 63Hz.

As with all Clair Brothers products, the kiT12+ is constructed of the finest Baltic birch and finished with a rugged polyurea coating to withstand the most demanding conditions.

The speaker grille is constructed of high grade 14 gauge perforated steel with a powder coated finish.

## OPTIONS & ACCESSORIES

### Rigging Accessories

**kiT12-i** – Non-Powered Installation Model w/ Terminal Strip only

**kiT12** – Non-Powered BiAmp Model with EP4 / Terminal Strip Connectors

**RC-kiT12** – Clamshell ATA-style road case (2x) kiT12 or kiT12+

**kiT-Sub** – Rigging / Stacking Companion Subwoofer

**kiT-Sub-mini** – Rigging / Stacking Companion Compact Subwoofer

Call or e-mail Clair Brothers for more information on available options.  
(717-665-4000) e-mail: [sales@clairbrothers.com](mailto:sales@clairbrothers.com)



## AUDIO SPECIFICATIONS

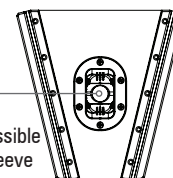
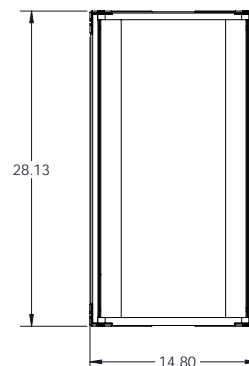
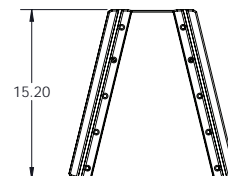
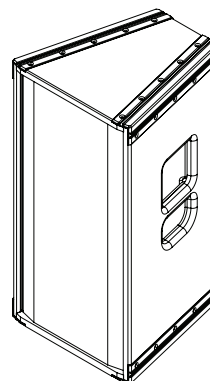
Loudspeaker Type	Mobile	Two-Way Active Self Powered
Frequency Response (+/- 2dB)		63Hz–20kHz
Integrated Power Amplifier		3200W
Sensitivity (1 Watt @ 1 Meter)	LF	98.5 dB SPL
	HF	100 dB SPL
Maximum Output	Peak	129 dB SPL
Drivers	LF	(1) 12 in. (304.8mm)
	HF	(1) Exit 2.0 in. (50.8mm); VC diameter 3.0 in. (76.2mm)
Nominal Impedance	LF	8 Ohms
	HF	16 Ohms
Power Handling	LF	500W Cont.
	HF	150W Cont.
Dispersion	Standard	90° H x 40° V (Rotatable)
	Optional	60° H x 40° V (Rotatable)
Input Connections	Signal	(2) XLR Connectors (1 XLR-F In, 1 XLR-M Thru)
	Power	(2) PowerCon-20a Connectors (1 PowerIn, 1 PowerOut)

## MECHANICAL SPECIFICATIONS

Enclosure	Shell	18mm, 13-Ply Baltic Birch
	Finish	Durable Polyurea Coating
Rigging		kiT Rigging Corners
Grille		Perforated Steel, Foam Backed
Dimensions	Height	28.13 in. (714.6mm)
	Front Width	14.80 in. (376.0mm)
	Rear Width	7.75 in. (197.0mm)
	Depth	15.20 in. (386.0mm)
Weight		62 lbs. (28.1kg)
Shipping Weight		72 lbs. (32.7kg)

Note: All wattage figures are calculated using the rated nominal impedance.

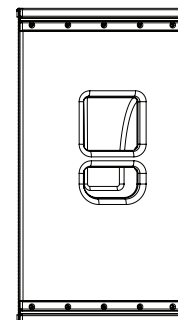
Clair Brothers products are designed to perform optimally by utilizing factory recommended proprietary DSP settings.



Integral Vertical Pole Mount

Fixed Angle 0°

Variable tilt range of 0° to +/-15° possible using accessory, (1x) Tilt Adaptor Sleeve PN10707.



## ARCHITECT AND ENGINEER SPECIFICATIONS

The loudspeaker shall be a two-way self powered system featuring a total of two drivers. The low frequency section shall contain one 12" driver capable of handling 500 watts of pink noise with a 6 dB crest factor for 8 hours (as per EIA RS-426-A standard). The high frequency section shall contain a single 2" exit compression driver with a 3" diaphragm and shall be attached to a 90° H x 40° V (Optionally 60° V x 40° H) constant-directivity horn. The driver shall be capable of handling 150 watts (1 kHz – 10 kHz) of pink noise with a 6 dB crest factor for 2 hours (as per AES-1984 and ANSI S4.26-1984 standards). The enclosure shall be constructed of 18mm, 13-ply Baltic birch and shall be finished with a durable polyurea coating. Dimensions shall be 28.13" high, 14.80" front width tapering 14° to 7.75" rear width, and 15.20" deep. The total cabinet weight shall be 62 lbs (28.1kg). The loudspeaker shall be the Clair Brothers kiT12+.



## MODES OF USE

