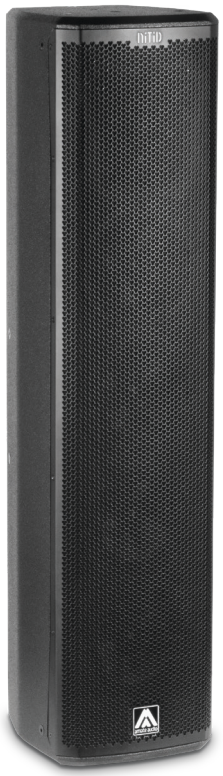
S46 4x 6” TWO-WAY ACTIVE FULL-RANGE COLUMN SPEAKER SYSTEM

NÍTID-S

amate audio



- LIGHT NEODYMIUM COMPONENTS
- CARBON FIBER CONE
- ASYMMETRICAL DISPERSION HORN
- REAR PANEL TOUCHSCREEN GUI OPERATION
- INTEGRATED POWER & CONTROL WITH MULTIPLE PRESETS
- HIGH RESISTANCE POLYUREA® FINISH
- EASY RIGGING & INSTALLATION ACCESSORIES

Full range, high-fidelity signal reproduction with exceptional LF response. The S46 provides high intelligibility, musicality and 125 dB continuous SPL, for unrivalled coverage in all kinds of large and medium auditoria and entertainment venues.

KEY FEATURES

TRANSDUCER TECHNOLOGY

Two-way, full range active loudspeaker system comprising four direct radiating 1.5-inch voice coil, neodymium magnet 6” loudspeakers and one 1.5-inch voice coil diameter, polymer diaphragm, neodymium magnet ring HF compression driver loaded to an asymmetrical rotational horn (50º to 100º x 55º dispersion).

AMPLIFICATION

Onboard 700 W 3rd generation Class D bi-amplification.

Universal switch mode power supply (SMPS) with Power Factor Correction (PFC), allowing constant power delivery from 85 to 265 VAC input and high efficiency (>90%), with extremely compact lightweight form factor.

Automatic EcoMode low power consumption mode when no signal input present.

Connectors mounted on an inclined, recessed moulded connector plate for improved security and environmental protection.

Double PowerCon® connectors (input & link).

ADVANCED DSP SYSTEM CONTROL

Onboard 64-bit precision DSP loudspeaker system control manages amplifier gain and cross-over settings, peak and thermal limiters and mutes. Includes adjustable 294 ms / 100 m delay line for extensive alignment delay and 5-band fully configurable parametric EQ.

High order FIR filtering ensures fully phase coherent PEQ adjustment and absolute phase alignment of common cabinet coupling.

Extensive R&D’d factory presets provide instantaneous system configuration for common applications, including point-source PA, speech and subwoofer coupling.

ALC (Adaptive Loudness Compensation) improves the listening experience when the system is used at low volume levels.

Operation and monitoring of system parameters, presets and user adjustments is via Amate Audio’s unique rear-panel 3.5” TFT colour touchscreen GUI. The front-panel Nítid backlit logo can be switched on or off, or set to indicate system limiting.

DESIGN & ACCESSORIES

Recessed ergonomic carry handle for easy handling.

Exclusive 1.5mm black mesh speaker grille with optimum perforation gradient and attractive appearance.

Multilayer birch plywood cabinet with Polyurea® coating providing maximum robustness and strength for touring, events production, venue installation and other highly demanding applications.

M8 rigging points for easy flying.

35mm diameter pole mount socket mounted on the bottom side, for a standard tripod.

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TECHNICAL FEATURES

Amplifier (program)	600 W (LF) + 100 W (HF) Class D Bi-amplified
Input Sensitivity	8 dBu – 1.94 V
Input Impedance	50 kΩ Balanced
Mains	Universal Switch Mode Power Supply 85-265 V / 45-65 Hz
Average current draw	1.7 A (Heavy duty musical program)
SPL (1 m)	125 dB musical program, 128 dB peak
Built-in DSP	64-bit processing unit. Includes factory presets
AD/DA converters	24 bit – 48 kHz
Standby mode consumption	3.7 W @230 VAC
Adjustable delay line	294 ms / 100 m
Crossover frequency	1k8 Hz
Frequency response (-10 dB)	50 Hz – 19 kHz
Components LF - MF	4x 6" neodymium woofers with carbon fiber cone (1.5" voice coil)
HF	1.5” polymer diaphragm, neodymium magnet ring driver
Directivity (-6dB)	50º to 100º (H) x 55º (V)
Directivity factor (Q)	12.6
Directivity Index (DI)	11 dB
Weight	20.9 kg
Dimensions (HxWxD)	1056 x 250 x 274 mm
Finish	Multilayer baltic birch plywood with high resistant black Polyurea® coating
Grille	1.5 mm powder coated steel with black acoustic mesh
Rigging	M8 points
Connectors	1x XLR input / 1x XLR link / 1x AC PowerCon® input / 1x AC PowerCon® link

Amate Audio’s latest generation DSP System management is integrated with 3rd generation Class D amplification. Colour touchscreen operation and monitoring of DSP System includes access to powerful presets - engineered by Amate Audio R&D team – that instantly configure your Nítid loudspeaker for the majority of common application environments within seconds, prior to rigging or installation.

TOP VIEW

BOTTOM VIEW

SIDE VIEW

FRONT VIEW

REAR VIEW

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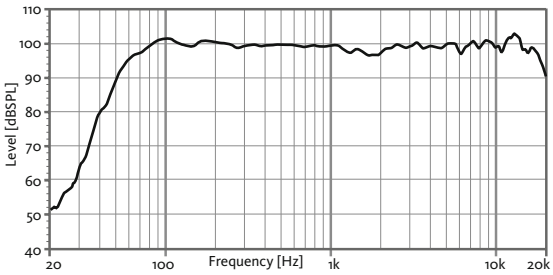
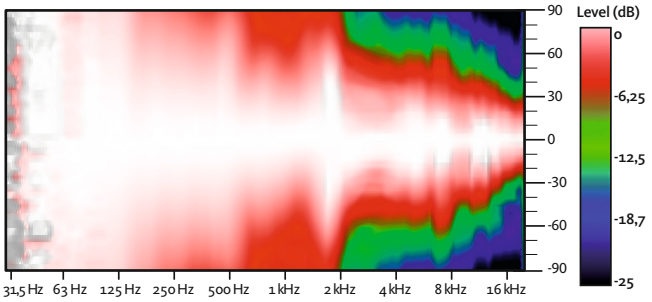
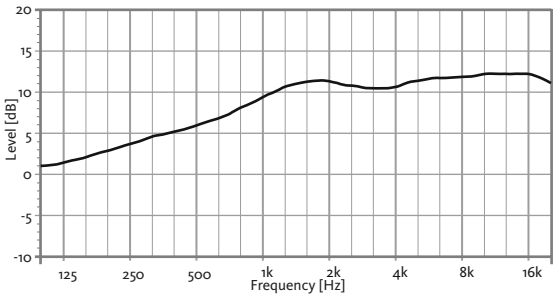
FREQUENCY RESPONSE 1w/1m (FLAT PRESET)



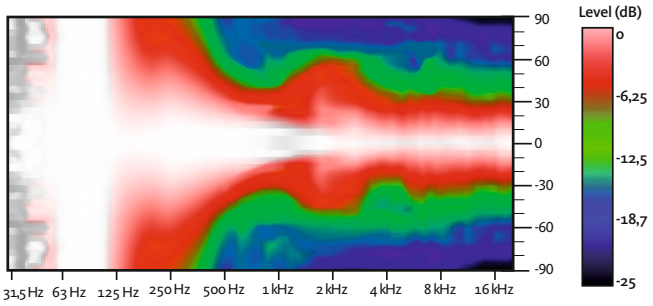
HORIZONTAL COVERAGE



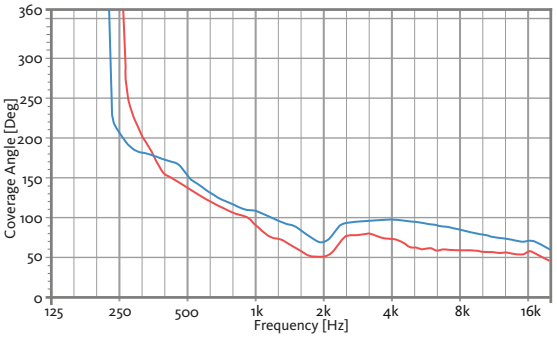
DIRECTIVITY INDEX (DI)



VERTICAL COVERAGE

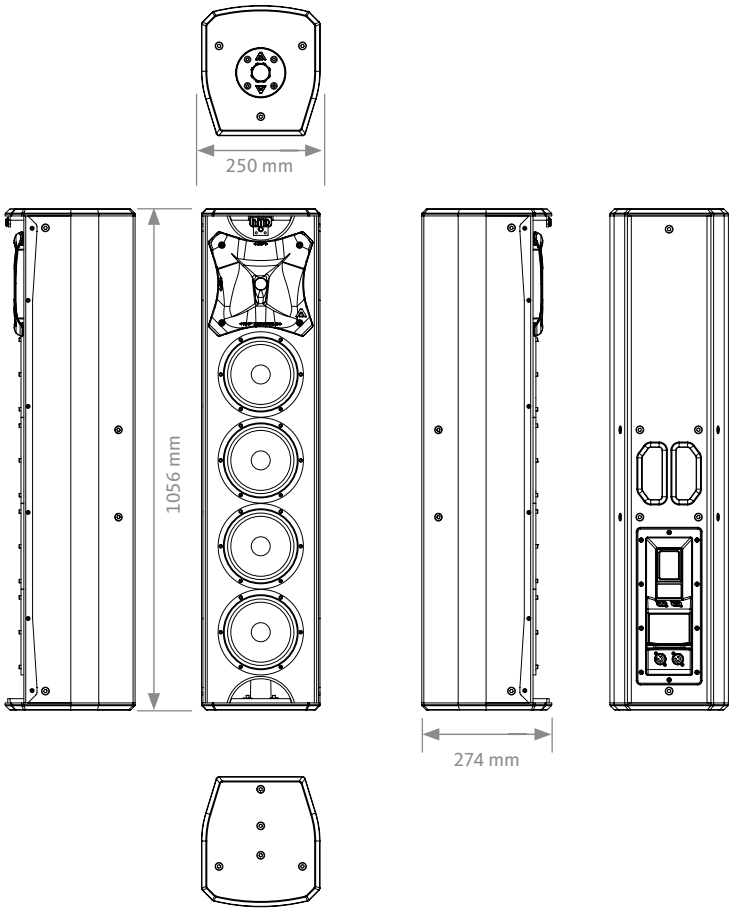


HORIZONTAL & VERTICAL BEAMWIDTH (-6dB point)

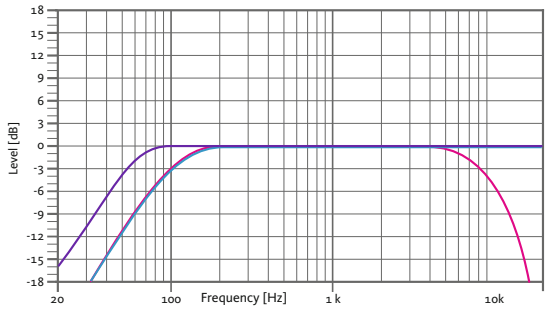


HORIZONTAL VERTICAL

CAD DRAWING SCHEME



BUILT-IN PRESETS



FLAT
Flat response

SPEECH
Vocal use

HPF90
HPF 90 Hz

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ACCESSORIES

TRANSPORT COVER
NC-S46

WALL MOUNT BRACKET
SP-46N

WALL-MOUNT BRACKET
SP-WHR

FLYING BAR
RB-S

SAFETY SLING
SC-15

M8 RIGGING EYEBOLT
ACR-M8

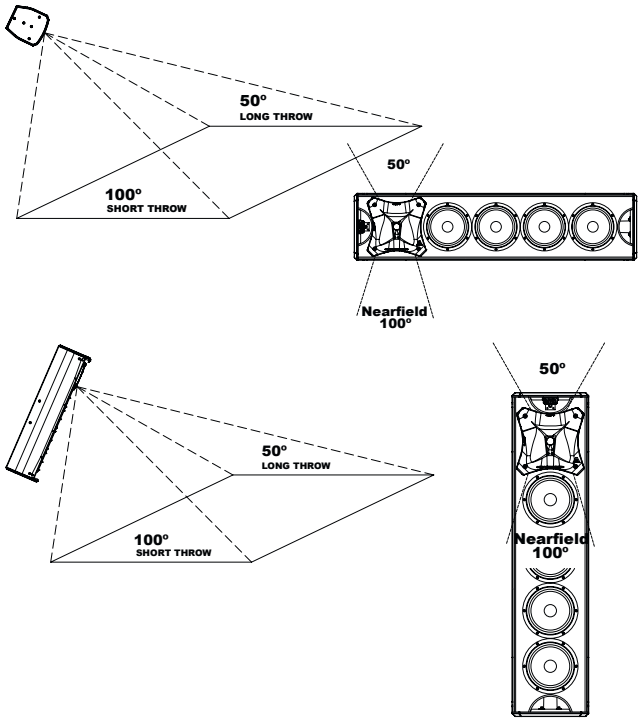
FLYING BAR WITH HOOK
RB-S/GT

TELESCOPIC DISTANCE ROD
SP-CRTL

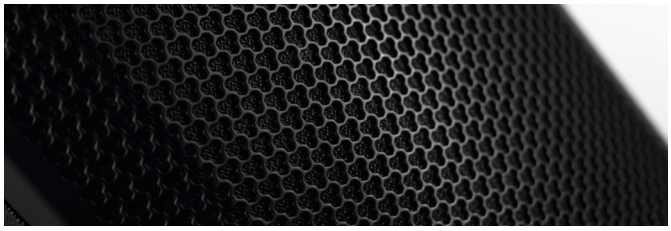
ø: 35 mm
Length: 55 cm ~ 90 cm
Thread: M20

ASYMMETRICAL DISPERSION HORN

It allows to optimize the coverage depending on its position.



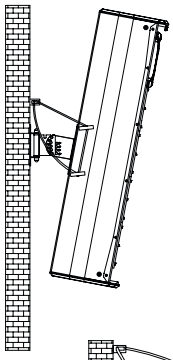
DISCOVER NÍTID



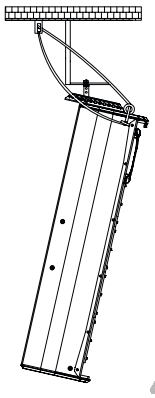
UNIQUE DESIGN
New S-series models build on the success, innovation and best-in-class performance of the original Nítid designs with improved features including a recessed moulded connector plate, more highly stylised form factor and improved robustness of the world’s most acoustically transparent pro-audio speaker grille.

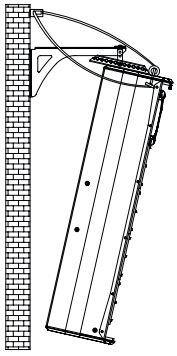
THE PERFECT BALANCE
An ongoing programme of research and development ensures that Nítid series loudspeakers continue to achieve the highest levels of output and performance from the most compact sized designs, in an unrivalled synthesis of engineering and aesthetic form.

VERTICAL WALL-MOUNT
SP-46N + SC-15

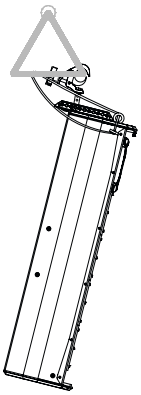


VERTICAL COLUMN-MOUNT
HR-LU + SC-15





VERTICAL WALL-MOUNT
SP-WHR + SC-15



VERTICAL TRUSS-MOUNT
HR-LU/GT + SC-15

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