ID84 / ID84L

User manual
# EU Conformity declaration

We, NEXO SA
ZA DU PRE DE LA DAME JEANNE
60128 PLAILLY – France

Declare under our sole responsibility that the product **Loudspeaker**
Type **ID84 / ID84L**
Serial number **On the product**

Is in conformity with the provisions of the following directive including all applicable amendments:

**2014/35/UE (Low Voltage Directive)**

Applied rules and standards: **EN 13155, EN 62368**
Plailly, 01 June, 2021

Joseph CARCOPINO, R&D Director
WARNINGS

PRECAUTIONS

Do not open the speaker, do not try to disassemble it neither to modify it in any way. The system doesn’t include any user-repairable part.

If the system seems to be malfunctioning or damaged, stop using it at once and have it repaired by a NEXO qualified technician.

Do not expose the system directly to the sun or to the rain, do not immerse it into fluids, do not place objects filled with liquid on the system. If a liquid gets into the system, please have it inspected by a NEXO qualified technician.

The connection should be performed by qualified technician, by ensuring that power is off.

Operating temperature with temperate climate: BR0°C to +40°C (+32°F to +104); -20°C à +60°C (-4°F to +140°F) for storage.

SAFETY INFORMATIONS

Read this manual before using the speaker.

Keep this manual available for further reference.

Observe all warnings and cautions.

Please check the NEXO Web site nexo-sa.com to get the most up-to-date version of this manual.

Ensure you are aware of the safety rules applying to rigging, stacking or installing on tripod or speaker stand. Failure to observe these rules may expose persons to potential wounds or even death.

Only use the system with accessories specified by NEXO.

Please always consult a NEXO-accredited technician if the installation needs architectural works and observe following precautions:

Mounting Precautions:
- Please select screws and mounting location supporting 4 times the system weight.
- Do not expose the system to excessive dust, vibrations, to extreme cold or hot temperatures, to reduce the risk of damaging components.
- Do not place the system in an unstable position; it could fall accidentally.
- If the system is used on a tripod, please ensure the tripod’s specifications are adapted and that its height does not exceed 1.40m/55”. Do not move the tripod with the system in position.

Connection and Powering Precautions:
- Unplug connected cables before moving the system.
- Power off the system before connecting the system.
- When switching on the installation, the amplifier must be powered last; when switching the installation off, shut off the amplifier first.
- If you work by cold temperatures, progressively raise the level to nominal value during the first minutes of use, to allow the system components to stabilize.

Please check regularly the system condition.

HIGH SOUND PRESSURE LEVELS

Exposure to very high sound pressure levels may cause permanent hearing losses. Degrees of hearing losses may be different from one person to another, but almost everybody will be affected if exposed to high sound pressure levels during a long period of time. The OSHA (Occupational Safety and Health Administration) American Agency specified the following maximal exposures:

<table>
<thead>
<tr>
<th>Number of Hours</th>
<th>Sound Pressure Level (dBA), Slow Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>90</td>
</tr>
<tr>
<td>6</td>
<td>92</td>
</tr>
<tr>
<td>4</td>
<td>95</td>
</tr>
<tr>
<td>3</td>
<td>97</td>
</tr>
<tr>
<td>2</td>
<td>100</td>
</tr>
<tr>
<td>1 ½</td>
<td>102</td>
</tr>
<tr>
<td>1</td>
<td>105</td>
</tr>
<tr>
<td>½</td>
<td>110</td>
</tr>
<tr>
<td>¼ or less</td>
<td>115</td>
</tr>
</tbody>
</table>

WASTE OF ELECTRIC OR ELECTRONIC EQUIPMENT

This symbol on the product or its packaging indicates that this product must not be treated as household waste. Instead, it is your responsibility to hand it over to a designated collection point for the recycling of waste electrical and electronic equipment. By ensuring your waste equipment is recycled, you will help prevent potential negative consequences for the environment and human health, which could appear if this product was not recycled. Recycling helps spare natural resources. For more information about the recycling of this product, please contact your local city office, your household waste disposal service or your reseller.
Locations for hanging on the back.

2 locations for connecting, 1 on the back and a quick connect in the base cover (ID84 only).

ID84 versions T & TIS: a directivity switch, located between the NL4 connectors, allows to virtually curve the drivers to achieve 2 vertical directivity patterns:
- Narrow (0° / -10°)
- Broad (0° / -25°)

WARNINGS
Do not use ID84 on the floor without using VNT-BP600 and IDT-BPADAPT.
Do not use ID84 on IDS312 on the floor without using VNT-BP600 and IDT-BPADAPT.
Assembly on ID84 / ID84L

<table>
<thead>
<tr>
<th>Use IDU-COUP to assemble 2x ID84. Use only fasteners provided (thread lock coated screws for permanent installation).</th>
</tr>
</thead>
</table>

**IMPORTANT**

Use VNT-BP600 and IDT-BPAPDT for stacking. Speaker must always be installed on a horizontal surface. Stand height and footprint must be defined to prevent assembly from collapsing. Ensure that audience is not allowed within a safety area which radius is equal or higher than assembly height. Test steadiness of the assembly by pushing in all directions.

Assembly on IDS312

<table>
<thead>
<tr>
<th>Open the trap above IDS312. Place ID84 on IDS312, magnet keeps it in place</th>
</tr>
</thead>
</table>

**IMPORTANT**

Speaker must always be installed on a horizontal surface. Stand height and footprint must be defined to prevent assembly from collapsing. Ensure that audience is not allowed within a safety area which radius is equal or higher than assembly height. Test steadiness of the assembly by pushing in all directions.
ID84 is a column speaker, 2 ways passive

ID84L is a column extension speaker, increase directivity control in LF

Versions
- ID84 / ID84L: for Touring Application; black, white
- ID84-TIS / ID84L-TIS: for Touring Application, with Installation grille; black, white
- ID84-I / ID84L-I: for Permanent Installation; black, white

ID84 Dispersion:
- Horizontal: 100°
- Vertical: ±0°/-10° or ±0°/ -25°. Switch on the back

ID84 can be used alone or with ID84L and/or IDS312 subwoofer

ID84 / ID84-TIS / ID84L and ID84L-TIS are equipped with two NL4 connectors with parallel-wired pins. ID84 / ID84-TIS have a quick connect in the base cover to be connected with IDS312 / IDS312-TIS.

ID84 / ID84-TIS use 2+/2-. The 1+/1- pins are used by the sub.

ID84L and ID84L-TIS use 1+/1-.

ID84-I and ID84L-I are equipped with a cable gland M16 (clamping range, Ø 5 to 12 mm), supplied with a fixed cable 2x 1.5 mm² section, length 2m, outside diameter 8mm ±1 mm

Amplification
- ID84/ID84L speakers must be used with a NEXO processor to handle EQ, phase alignment, crossover and excursion/thermal protection for the system loudspeaker.
- The following table shows the number of OD84, ID84L speakers and IDS312 subwoofers usable with each solution.
Please consult nexo-sa.com for NEXO TD Controllers firmware information.

For optimal acoustic performance, follow these rules:
- Always use at least 1x ID84.
- Never assemble more than 4 cabinets.
- Never use more than 2x ID84 or 2x ID84L in a column assembly.
- 2xID84 can only be coupled upside-down for HF section continuity.
- Never link an ID84L to the top of an ID84.

For the ID84, the following setups are available:
- NARROW: directivity 0° / -10°.
- BROAD: directivity 0° / -25°.

Preset
- ID84 BROAD, with high pass at 90 or 120 Hz.
- ID84 NARROW, with high pass at 90 or 120 Hz.

For the ID84L, the following setups are available:
- NARROW: use when next to an ID84 in NARROW mode.
- BROAD: use when next to an ID84 in BROAD mode or when not directly attached to an ID84.

Preset
- ID84L BROAD, with high pass at 90 or 120 Hz.
- ID84L NARROW, with high pass at 90 or 120 Hz.

1x ID84
**PRESET**

**ID84 + IDS312**

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**2xID84 / ID84 + ID84L**

**ID84**
Switch and Set up:
NARROW or BROAD

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**ID84L**
Set up identical to ID84.

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**ID84**

ArrayEQ HF: +3dB

Switch and Set up:
NARROW or BROAD
**ID84**

ArrayEQ HF: +1.5dB

Switch and Set up:
NARROW or BROAD

**ID84L**

Set up identical to the ID84 directly above.

**ID84**

ArrayEQ HF: +4.5dB

Switch and Set up:
NARROW

**ID84L**

Setup BROAD
**CROSSOVER FREQUENCY**

*2xID84 + 2x ID84L*

**ID84**
ArrayEQ HF: +3dB
Switch and Set up:
NARROW or BROAD

**ID84L**
Setup NARROW

**ID84**
ArrayEQ HF: +3dB
Switch and Set up:
NARROW or BROAD

**ID84L**
Set up identical to the ID84 just below it.

**ID84**
ArrayEQ HF: +3dB
Switch and Set up:
NARROW or BROAD

**ID84L**
Setup BROAD

**ID84L**
Set up identical to the ID84 directly above.

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**CROSSOVER FREQUENCY**

- 90 Hz: Full range application.
- 120 Hz: Use with a NEXO subwoofer, e.g. IDS312.
### WARNINGS

All ID84 / ID84L accessories are specifically rated in agreement with structural computations. Never use other accessories – including push-pins – when assembling ID84 / ID84L cabinets than the ones provided by NEXO: NEXO will decline responsibility over the entire ID84 accessory range if any component is purchased from different supplier.

**PROHIBITED:** ID84/ID84L below ID84/ID84L or ID84/ID84L with IDS312 without dedicated accessory

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### IDU-BUMP

Lifting bracket for ID84 / ID84L, can be used with VNT-LIFTADAPT or VNI-WMADAPT and VNI-WM200.

Up to 2x ID84 + 2x ID84L can be lifted.

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### IDT-PLADAPT

Pole stand accessory for ID84 to be use with 35mm pole.

Can be fixed to upper part of the ID84.

For 1x ID84.

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### IDU-COUPL

Coupling bracket for ID84

Up to 2x ID84 + 2x ID84L can be coupled together

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### IDU-TCBRK84

Truss-clamp bracket for ID84, to attach one or multiple ID84 to a truss, in horizontal or vertical arrangement.

1x TCBRK84 for a maximum of 2x ID84

2x TCBRK84 and additional hanging on IDU-COUPL for a maximum of 2x ID84L + 2xID84

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### VNT-BP600

Base plate for ID84/ID84L/IDS312, footprint M20 for extended bar.

IDT-BPADAPT must be used to secure ID84/ID84L/IDS312 to the base plate

- 1x ID84L + 1x ID84
- 1x IDS312 + 1x ID84
ACCESSORIES

**IDT-BPADAPT**

Bracket for ID84/ID84L/IDS312, use to secure the assembly with VNT-BP600

- 1x ID84L + 1x ID84 (with IDU-COUPL).
- 2x ID84 (with IDU-COUPL).
- 1x IDS312 + 1x ID84 by using quick connect on IDS312.

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**VNT-LIFTADAPT / VNI-WMADAPT**

Max : 2xID84 + 2x ID84L

- VNT-LIFTADAPT avec IDU-BUMP
- VNI-WMADAPT avec IDU-BUMP & VNI-WM200

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**IDI-WB02 / VNI-WB02**

Wall mount (up to 15 kg)

Use 2x WB02 to hang 1x ID84 on a wall.

± 35° horizontal

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**IDI-WM02 / VNI-WM02**

Wall mount (up to 25 kg)

0° to -6° vertical and ± 50° horizontal

Can be fixed only on the upper hanging point of the ID84.

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**IDT-BAG84: transport bag for 1x ID84 ou ID84L**

**IDT-2CASE84: flight case for 2x (ID84 ou ID84L) + accessories (2x IDT-BUMP + 2x IDT-PLADAPT + 2x IDT-BPADAPT + 2x IDT-COUP + little storage)**
The ArrayEQ allows to adjust the system frequency response in its lower range (see curves below, with different ArrayEq values):

Apply the following array EQ HF on all ID84 (not ID84L) of the assembly:

<table>
<thead>
<tr>
<th>1x ID84</th>
<th>2x ID84</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x ID84L</td>
<td>No adjustment</td>
</tr>
<tr>
<td>1x ID84L</td>
<td>+3dB</td>
</tr>
<tr>
<td>2x ID84L</td>
<td>+4.5dB</td>
</tr>
</tbody>
</table>
Driver access

Remove the top cover (3 screws) and the bottom cover (2 screws). Tx 15 – 20
Tightening torque : 1.5Nm

Remove the 14 screws and the both sides plates. Tx 20. Tightening torque : 2.0Nm
Carefully, remove the grille.

Remove the 4 screws and the RJ45 connector.
Remove the HF assembly. Tx20
Tightening torque : 1.2Nm

Remove the 4 screws to access the 4-inch driver. Tx15
Tightening torque : 1.0Nm
### Spare parts

#### ID84

<table>
<thead>
<tr>
<th>MARK</th>
<th>QUANTITY</th>
<th>REFERENCE</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>05ID84TOP</td>
<td>Top cover Black</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>05ID84TOP-PW</td>
<td>Top cover White</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>05ID84HFC</td>
<td>HF assembly complete Black</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>05ID84HFC-PW</td>
<td>HF assembly complete White</td>
</tr>
<tr>
<td>3</td>
<td>8</td>
<td>05HPB4-8</td>
<td>BASS DRIVER 4” 8 OHMS</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>05ID84T-A</td>
<td>Grille ID84 Touring Black</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>05ID84T-APW</td>
<td>Grille ID84 Touring White</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>05ID84I-A</td>
<td>Grille ID84-I Install Black</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>05ID84I-APW</td>
<td>Grille ID84-I Install White</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>05ID84QC</td>
<td>Quick connect Black</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>05ID84QC-PW</td>
<td>Quick connect White</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>05LOGNEXO3</td>
<td>Logo NEXO</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>05CAPSWITCH-2</td>
<td>Switch Cap Grey</td>
</tr>
<tr>
<td>MARK</td>
<td>QUANTITY</td>
<td>REFERENCE</td>
<td>DESIGNATION</td>
</tr>
<tr>
<td>------</td>
<td>----------</td>
<td>-------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>05ID84COV</td>
<td>Top cover Black</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>05ID84COV-PW</td>
<td>Top cover White</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
<td>05HPB4-8</td>
<td>BASS DRIVER 4” 8 OHMS</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>05ID84LT-A</td>
<td>Grille ID84L Touring Black</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>05ID84LT-APW</td>
<td>Grille ID84L Touring White</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>05ID84LI-A</td>
<td>Grille ID84L-1 Instal Black</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>05ID84LI-APW</td>
<td>Grille ID84L-1 Instal White</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>05LOGNEXO3</td>
<td>Logo NEXO</td>
</tr>
</tbody>
</table>
### TECHNICAL SPECIFICATIONS

**ID84 / ID84L WITH NEXO ELECTRONICS**

<table>
<thead>
<tr>
<th>Model</th>
<th>ID84</th>
<th>ID84L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range (±6dB)</td>
<td>90 Hz – 20 kHz</td>
<td>90 Hz – 1500 Hz</td>
</tr>
<tr>
<td>Peak SPL Level (1m)</td>
<td>135dB Peak</td>
<td>132dB Peak</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>35Vrms (105Vpeak)</td>
<td>35Vrms (105Vpeak)</td>
</tr>
<tr>
<td>Vertical directivity</td>
<td>+0°/-10° or +0°/-25°</td>
<td>Depends on ID84 Main module configuration and assembly</td>
</tr>
<tr>
<td>Horizontal directivity</td>
<td>100°</td>
<td>100°</td>
</tr>
<tr>
<td>Crossover Frequency</td>
<td>90Hz – 120 Hz</td>
<td>90Hz – 120 Hz</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>4Ω</td>
<td>4Ω</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>ID84</th>
<th>ID84L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>LF: 8x 4” ; HF : 8x 1”</td>
<td>LF: 8x 4”</td>
</tr>
<tr>
<td>Material</td>
<td>Aluminum body and Magnelis® covers and grille</td>
<td></td>
</tr>
<tr>
<td>Finish</td>
<td>Black (RAL9005), white (RAL9016) powder coating or custom RAL</td>
<td></td>
</tr>
<tr>
<td>Front finish</td>
<td>Magnelis® front grille</td>
<td>Magnelis® front grille</td>
</tr>
<tr>
<td></td>
<td>Magnelis® front grille – Automotive grade front cloth (versions I and TIS)</td>
<td></td>
</tr>
<tr>
<td>Fittings</td>
<td>Threaded M6 inserts on the back</td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>2x NL4, 4 poles connectors</td>
<td>2x NL4, 4 poles connectors</td>
</tr>
<tr>
<td></td>
<td>Quick connect in the base cover</td>
<td>1x cable gland with 2x core cable (version I)</td>
</tr>
<tr>
<td></td>
<td>1x cable gland with 2x core cable (version I)</td>
<td>(version I)</td>
</tr>
<tr>
<td>Weight</td>
<td>15 kg / 33 lb</td>
<td>14 kg / 31 lb</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>