

HDL 50-A

ACTIVE THREE-WAY LINE ARRAY MODULE

Official product detail overview

4400 W Peak / 2200 W RMS

Built-in 3-way amplification

140 dB Max SPL

High-output touring performance

90° × 10° Coverage

Controlled directivity with RDNet

Touring / Archived product family



Product Positioning



Official positioning

A ready-to-use active high-power speaker system for large events, indoors and outdoors. The HDL 50-A combines touring-grade SPL, integrated DSP, and low handling weight in a compact large-format line array module.

Typical applications

Large touring systems
Festival stages
Indoor arenas
Worship and large venues

Core value

Active 3-way design
RDNet monitoring/control
Symmetrical configuration
Easy handling and flying

2 × 12"

LF

4 × 6.0"

MF

2 × 1.4"

HF

Key Performance

Frequency Response

40 Hz – 20000 Hz

Maximum SPL

140 dB @ 1 m

Coverage

90° horizontal / 10° vertical

Amplification

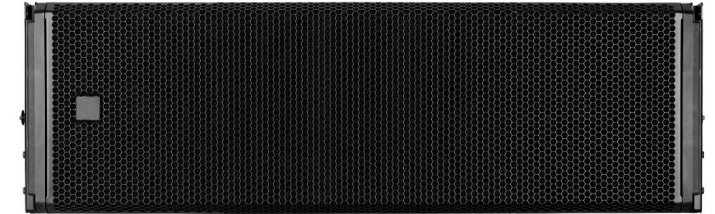
4400 W Peak / 2200 W RMS

DSP / Control

48 kHz, 32-bit DSP / RDNet

Weight

56 kg / 123.46 lbs



Built-in power section: HF 1100 W Peak / 550 W RMS; MF 1100 W Peak / 550 W RMS; LF 2200 W Peak / 1100 W RMS.
Input / Output: XLR and RDNet Ethercon; mains connection via Powercon IN/OUT.
Controls: Cluster size, HF correction, RDNET. Protections: Thermal, RMS. Limiter: Soft Limiter.

Acoustic & Enclosure Design



Official product gallery detail views

Symmetrical 3-way topology

2 × 12" woofers, 4 × 6.0" midranges, and 2 × 1.4" compression drivers deliver consistent coverage and high output.

Cabinet construction

Official physical specifications list a Baltic birch plywood cabinet with integrated mechanics.

Protection & hardware

Steel grille, two side handles, two rear handles, and integrated rigging mechanics support touring workflows.

Cooling & control

Convection cooling, built-in DSP processing, and RDNet remote monitoring/control are integrated into the active module.

Technical Specifications

Product Model	HDL 50-A
Type	Active three-way line array module
Drivers	2 × 1.4" neo, 3.0" v.c compression drivers; 4 × 6.0" neo, 2.0" v.c midranges; 2 × 12" neo, 3.0" v.c woofers
Frequency Response	40 Hz - 20000 Hz
Rated Power	2200 W RMS
Peak Power	4400 W Peak
Sensitivity	Not specified in official materials
Maximum SPL	140 dB
Nominal Impedance	Not specified in official materials
Coverage / Dispersion	90° horizontal / 10° vertical
Enclosure	Baltic birch plywood
Finish	Not specified in official materials
Protective Grille	Steel
Connectors	Input: XLR, RDNet Ethercon; Output: XLR, RDNet Ethercon; Mains: Powercon IN/OUT
Dimensions	1171 × 366 × 502 mm (W × H × D)
Weight	56 kg / 123.46 lbs
Supplied Fittings	Integrated Mechanics
Recommended Amplifier	Not specified in official materials

System Application / Rigging

Integrated rigging concept



- Front link / link point
- Splaying pin position
- Integrated mechanics
- Rear handle access

Official materials state: Hardware = Integrated Mechanics. Handles: 2 side, 2 rear. The module is intended for professional flying / rigging workflows and the HDL 53-AS is identified as the ideal flyable bass complement.

Featured official accessories



CVR 4X HDL 50

Cover for 4 modules / protection



KRT-WH 4X HDL 50

Kart with wheels for up to 4 modules



RP 1X HDL 50

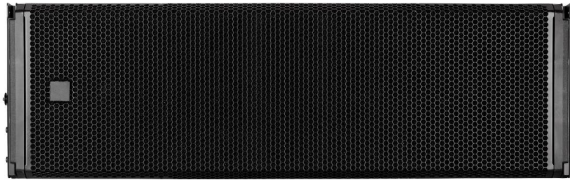
Rain protection set



AZM-BR 2X

Azimuth bracket for horizontal array control

Deployment Options



Flown line array

Primary touring deployment for large-format systems

Integrated mechanics



Ground support / prep

Kart, cover, and rain protection support load-in and deployment

Transport up to 4 modules



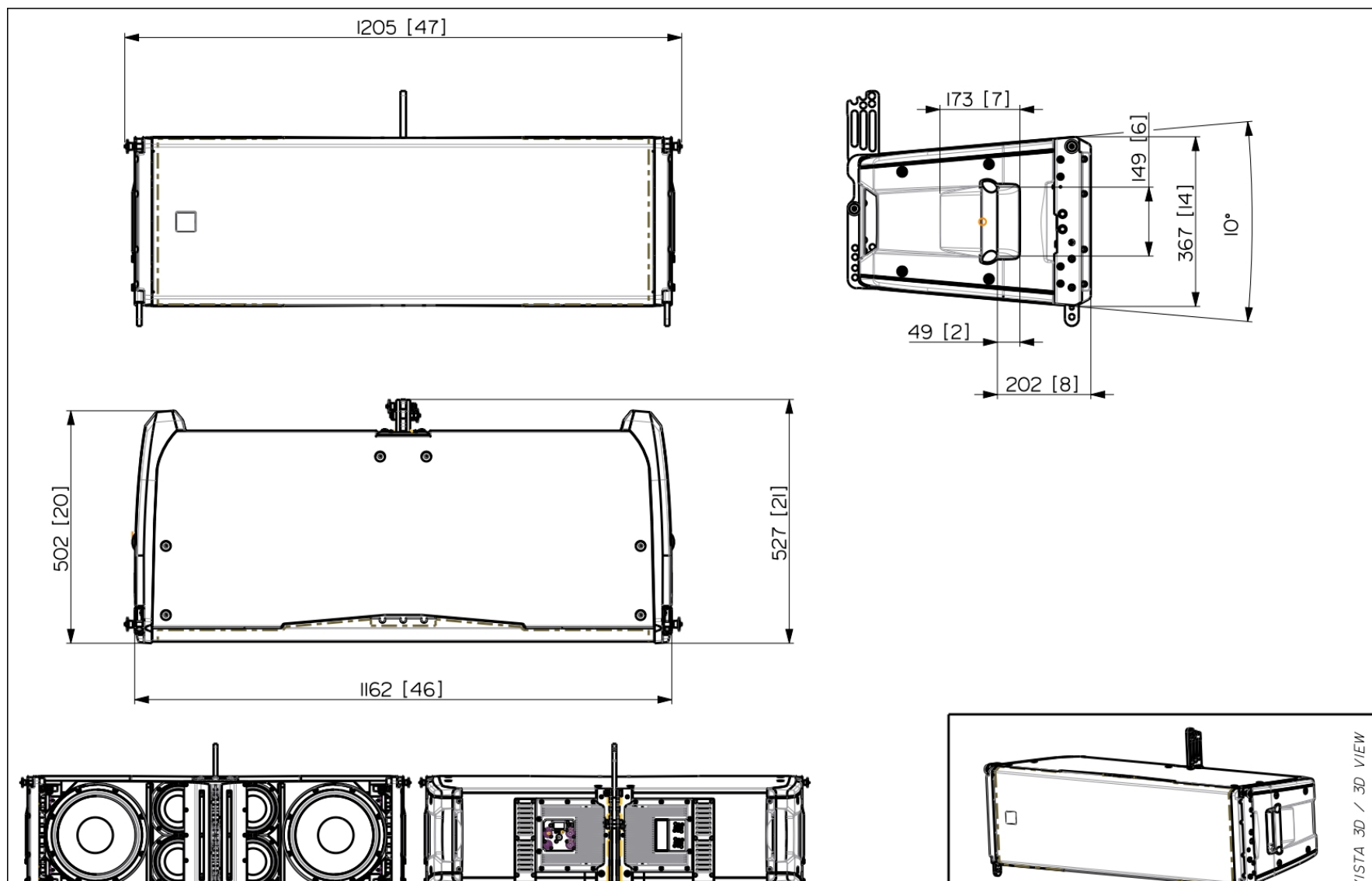
System networking

RDNet + XLR + Powercon support audio, control, and power distribution

XLR / RDNet / Powercon

Deployment logic is described using official product and accessory information; no unofficial installation rendering is used.

Technical Drawing / Dimensions



Dimensions

Width	1171 mm
Height	366 mm
Depth	502 mm
Weight	56 kg
Vertical angle	10°
Horizontal angle	90°

Drawing source: official LINE ART 2D / PDF from the HDL 50-A download area.

Connections & Hardware Details



I/O and networking

Input connectors: XLR, RDNet Ethercon
Output connectors: XLR, RDNet Ethercon
Power connection: Powercon IN/OUT

Signal and processing

Input signal: bal/unbal
Input sensitivity: +4 dBu
Controls: Cluster size, HF correction, RDNET

Protection and cooling

Protections: Thermal, RMS
Limiter: Soft Limiter
Cooling: Convection

Mechanical details

Official gallery images show integrated link points, side handles, rear handles, and the active amplifier/rear control panel arrangement.

Accessories



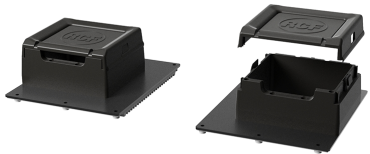
CVR 4X HDL 50 — Cover — Protection for 4 modules / used with 1 kart

Compatibility / Application: HDL 50-A family accessory page or official ENG specsheet.



KRT-WH 4X HDL 50 — Kart with wheels — Transportation of up to 4 modules

Compatibility / Application: HDL 50-A family accessory page or official ENG specsheet.



RP 1X HDL 50 — Rain protection — Protection against rain for HDL 50-A

Compatibility / Application: HDL 50-A family accessory page or official ENG specsheet.



AZM-BR 2X — Azimut bracket — Horizontal array control accessory

Compatibility / Application: HDL 50-A family accessory page or official ENG specsheet.

Additional official accessories listed in the latest ENG specsheet include FL-B HDL 50, FL-B EXT HDL 50, QL-PIN 007 / 010, STK60727, HOIST SPACING CHAIN CH 001, HDL 50 UPGRADE KIT 4K, and multiple Ethercon / multipin / Powercon cable sets. Image not available in official materials for this slide selection.

Application Scenarios

Festivals

High-output main PA arrays for open-air concert deployment.

Arenas

Controlled coverage for large indoor audience areas.

Touring productions

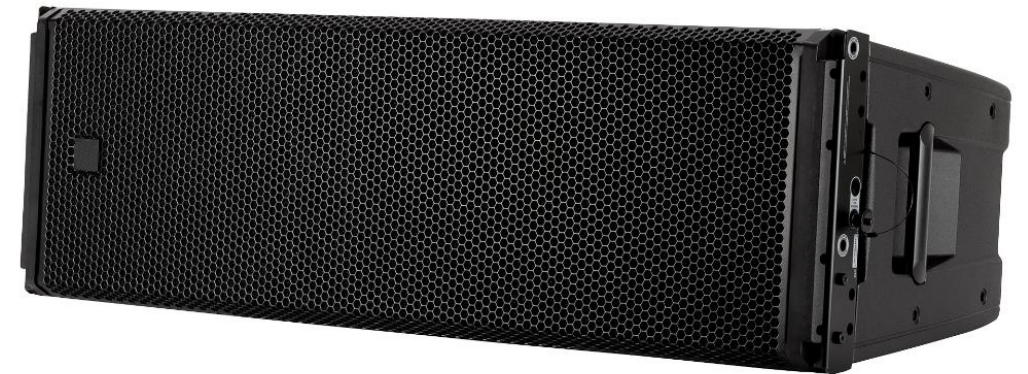
Active architecture simplifies system integration and logistics.

Worship / large venues

Suitable where high intelligibility and scalable line-array deployment are required.

Special events

Corporate, civic, and large-scale temporary reinforcement.



No unofficial event or case-study photo is used. This page summarizes appropriate use scenarios derived from the official product positioning.

Product Summary

HDL 50-A

Active three-way line array module

40 Hz – 20 kHz

Frequency response

140 dB

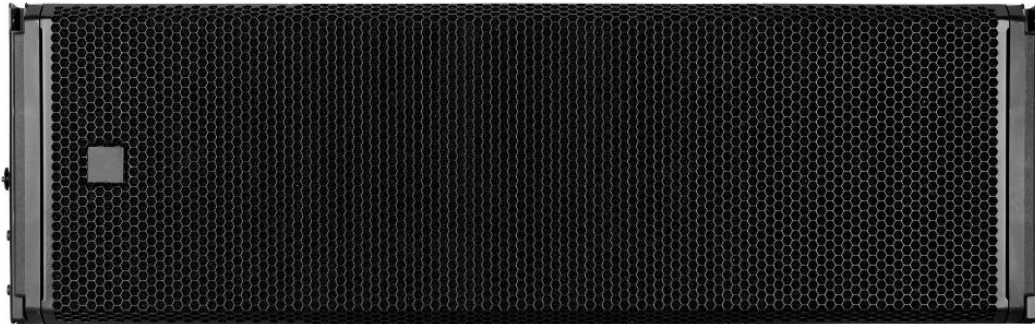
Maximum SPL

4400 W Peak

Amplification

56 kg

Net weight



Official touring-grade active 3-way module with RDNet control.

Integrated mechanics and dedicated accessories support flying, transport, and weather protection.

Full technical data and dimensions based on the latest official ENG specsheet and drawing files.