

# BOYCE ROX52

Spec Sheet

## 4-WAY CARDIOID LINE ARRAY SPEAKER

### ACOUSTICS

Max SPL	145 dB (1 m, free field)
Freq. Response	40 Hz – 20 kHz ( $\pm 3$ dB)
Dispersion (H)	80° constant directivity
Splay Angle	0° – 10°
LF Directivity	Cardioid — Front-LF & Side-LF with rear port

### TRANSDUCERS

HF	2 x 1.4" exit compression neodymium drivers   3" voice coil
MF	2 x 8" neodymium driver
Side-LF	2 x 8" neodymium driver
Front-LF	2 x 10" neodymium driver
Crossover	Internal passive (Side-LF / MF / HF)
LF DSP	Active DSP crossover on front-LF channel

### PHYSICAL

Weight	59 kg / 130 lbs
Width	39.625"
Depth	23"
Height (front)	13.25"
Height (rear)	8.5"
Cabinet	Premium Birch Plywood
Finish	Durable moisture-resistant coating
Grille	Steel mesh + acoustically transparent fabric

### CONNECTORS

Bi-Amp (NL4)	Pin 1 (+/-) Side-LF, MF, HF Pin 2 (+/-) Front-LF
Quad-Amp (NL8)	Pin 1 HF   Pin 2 MF Pin 3 Side-LF   Pin 4 Front-LF

### DEPLOYMENT

Max per Column	15 units
Cardioid LF	Front-LF & side-LF with rear port
Amp Efficiency	1 x BS10K-4 drives 4 cabinets (Bi-Amp)

### POWER — BI-AMP MODE

Boyce BS10K-4 · 8 $\Omega$ · 2 CHANNELS PER CABINET			
CHANNEL	AES	PROGRAM	PEAK
Front-LF (DSP Active)	800 W	1,600 W	3,200 W
Side-LF / MF / HF (Passive)	300 W	600 W	1,200 W

### POWER — QUAD-AMP MODE

Boyce BS20K-4 · 16 $\Omega$ · 4 CHANNELS PER CABINET			
CHANNEL	AES	PROGRAM	PEAK
Front-LF	800 W	1,600 W	3,200 W
Side-LF	700 W	1,400 W	2,800 W
MF	700 W	1,400 W	2,800 W
HF	240 W	480 W	960 W

### RECOMMENDED AMPLIFIERS

Bi-Amp Mode	Boyce BS10K-4 — 1 amp drives up to 4 x ROX52 cabinets
Quad-Amp Mode	Boyce BS20K-4 — 1 amp per cabinet (full 4-channel control)