

FLEX

TechGuide v25.11

FLEX - AUSTRIA / Vienna

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PA

PA

ALCONS Q-Series

line-source array column system



ALCONS QR24/80

Physical specifications

System	2-way, full-range
Drivers LF	4x AND65-8 Neodymium 6.5", vented
Driver HF	2x RBN1203 12" pro-ribbon driver

Technical specifications

Frequency Response	74 Hz - 20.000 Hz (+/- 3 dB) 53 Hz - (+/- 10 dB)
Sensitivity nominal	109 dB (200 Hz - 10 kHz)
Nominal Impedance	8 ohms
Nominal SPL peak	141 dB (200 Hz - 10 kHz)
Dispersion H x V (array)	80° x depending on array length

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ALCONS QR24/110

Physical specifications

System	2-way, full-range
Drivers LF	4x AND65-8 Neodymium 6.5", vented
Driver HF	2x RBN1203 12" pro-ribbon driver

Technical specifications

Frequency Response	74 Hz - 20.000 Hz (+/- 3 dB)
	53 Hz - (+/- 10 dB)
Sensitivity nominal	108 dB (200 Hz - 10 kHz)
Nominal Impedance	8 ohms
Nominal SPL peak	140 dB (200 Hz - 10 kHz)
Dispersion H x V (array)	110° x depending on array length

ALCONS QM24

Physical specifications

System	1-way, limited bandwidth
Drivers LF	4x AND65/8 Neodymium 6.5", vented

Technical specifications

Frequency response	74 Hz - 1 kHz (+/- 3 dB)
	53 Hz - (+/- 10 dB)
Sensitivity (nominal)	101 dB (200 - 1 kHz)
Nominal impedance	8 ohms
Nominal SPL peak	132 dB (200 - 1 kHz)
Dispersion H x V	80° x array length depending

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SUB SYSTEM

2 x ALCONS BC543

Double-tuned, bass-reflex loaded cardioid-control subwoofer system
Triple 18" woofer with all-carbon cone

Technical specifications

Frequency response	35 Hz - 150 Hz	(+/- 3 dB)
	29 Hz -	(+/- 10 dB)
Sensitivity nominal	100 dB (40 Hz - 100 Hz)	
Nominal impedance	4 ohms/front, 8 ohms/rear	
Nominal SPL peak	135 dB (40 Hz - 100 Hz)	
	140 dB (comparative)	
Dispersion H x V	(hyper) cardioid	

AMPLIFICATION

3 x ALCONS SENTINEL 10

4-channel digital-amp (4 x 1450 W @ 8 ohms)

FLEX SUB HORNS

8 x 15" drivers by Eighteensound

powered by

2 x LAB Gruppen FP10000Q

4-channel digital-amp with a peak total output of 10000 W

DSP

XILICA SOLARO FR1

Technical specifications

Equivalent Input Noise (EIN)	<125dBu, unweighted (20Hz to 20kHz)
Dynamic Range	110dB, unweighted
Propagation Delay	4/2ms (48/96 kHz respectively)
Sampling Rate	48/96kHz
A/D-D/A Converters	32-bit

Inputs

ANALOG in	XLR (L & R)
DIGITAL in	AES/EBU via XLR (L & R)
DANTE	RJ45 (64x64)

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MIXING / FOH / MONITORING

MIXING SYSTEM

ALLEN & HEATH D-LIVE

ALLEN & HEATH DMO (up to 64 in / 32 out with 4x DX-168/X)
with 1 x DANTE Audio Networking Card (64x64)

2 x ALLEN & HEATH DX-168/X Audio Rack (built-in)
2 x ALLEN & HEATH DX-168/X Stagebox (external)

FOH

ALLEN & HEATH D-LIVE S5000 Surface

INPUT TO PA

ANALOG 2x XLR (L + R)

DIGITAL XLR AES/EBU

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STAGE - MONITORING

STAGE MONITORING

8 x NEXO PS15-R2 stage monitor

Product Features

Components	LF: 1 x 15" long excursion Neodymium 8 Ω driver HF: 1 x 2" throat, 3" Titanium diaphragm, driver + Low Distortion, Constant Directivity Asymmetrical Dispersion Horn
Height x Width x Depth	675mm x 434mm x 368 mm (26.57" x 17.08" x 14.48")
Weight	28 kg (62 lbs.)

System Specifications PS15-R2 with NEXO Controller

Frequency Response	50 Hz - 18 kHz ± 3 dB
Usable Range @-6dB	47 Hz - 18 kHz
Sensitivity 1W @ 1m	102 dB SPL Nominal. 99 dB SPL Wideband
Nominal Peak SPL @ 1m	133 to 136 dB Peak
HF Dispersion	50° to 100° Hor. x 55° Vert.

AMPLIFICATION

2 x NEXO powered by YAMAHA - NXAMP 4x4

Number of amplifiers channels	4x channels, 2 by 2 bridgeable
Max. output power (8 Ω)	4 x 1900W

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DJ - MONITORING

L-ACOUSTICS ARCS WIDE

2-way loudspeaker

Usable bandwidth (-10dB)	55 Hz - 20 kHz
Maximum SPL	135 dB
Coverage angle (-6dB)	30° x 90°
RMS power handling	450 W
Transducers	LF: 1 x 12", weather-resistant, bass-reflex HF: 1 x 3", diaphragm compression driver, DOSC waveguide
Dimensions	36.5/14 x 75.9 x 44.4 (W/w x H x D) in cm

L-ACOUSTICS SB18m

subwoofer

Low frequency limit (-10dB)	32 Hz
Maximum SPL	138 dB
RMS power handling	700 W
Transducers	1 x 18" weather-resistant, bass-reflex
Dimensions	75 x 55.3 x 70.7 (W x H x D) in cm

L-ACOUSTICS LA4X

Amplified controller with DSP

Max. output power	4 x 1000W @ 8Ω
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FLEX

LIGHTING & LED-WALL

CONSOLE

MA LIGHTING grandMA2 ultra-lite

Art-Net Node

BOTEX NETCon 8-3

Bidirectional Art-net Node

4096 channels / 8 DMX universes

5 universes used for in-house lighting

3 universes free for additional fixtures on stage

Supported protocols: DMX, Art-Net, sACN

2 etherCON RJ45 connections, lockable (etherCON)

(1x Art-Net in, 1x Art-Net out)

8 XLR 3-pin female DMX input & output

LED-WALL SPECIFICATIONS

dimensions 5 x 3m

resolution 1040 x 624px

aspect ratio 15:9

video input via HDMI from stage, FOH or operator bridge
in-house visuals with Resolume Arena 7

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POWER DISTRIBUTION & NETWORK

Power Lines

stage

6x CEE 32A/400V,

1x CEE 16A/400V,

1x 3-phase 230V to 120V converter transformer

3 separate phases: Schuko 16A/230V (solely for sound)

3 separate phases: Schuko 16A/230V (solely for lighting)

up to 6 separate phases for lighting

FOH

1x Schuko 16A/230V (solely for sound)

1x Schuko 16A/230V (solely for lighting)

NETWORK

<i>1x CAT 7</i>	<i>RJ45 EtherCon</i>	<i>FOH <-> stage right</i>
<i>2x CAT 5e</i>	<i>RJ45 EtherCon</i>	<i>FOH <-> stage right</i>
<i>2x CAT 7</i>	<i>RJ45</i>	<i>FOH <-> stage right (25m)</i>
<i>1x CAT 6</i>	<i>RJ45 EtherCon</i>	<i>FOH <-> stage left</i>

