



Portable Sound



ACTOR DX

The new dimension in performance



The new dimension in performance

The new ACTOR DX is a self-contained high-tech active PA system with innovative digital technologies (DDO™) that help it achieve an unprecedented dimension in performance.

HK AUDIO® sound know-how

The ACTOR DX speaker system was engineered using top-notch components to deliver superb sound even without the benefit of a controller. And when DDO™ controlling is added to the audio equation, what is already very good sound turns into an unsurpassed sonic sensation.

Innovative DDO™ controller

Every loudspeaker has a specific sonic character. Like an instrument, its timbre will vary with volume level; it will produce distortion, harmonics, resonances. In other words, under the constantly changing load of normal operation, its overall response likewise changes. And in a system comprising several loudspeakers, these undesirable effects are multiplied. This is where the new ACTOR DX's patent-applied-for DDO™ (Digital Dynamics Optimization™) technology comes into play. Leveraging many years of experience with the HK AUDIO DFC (Digital Field

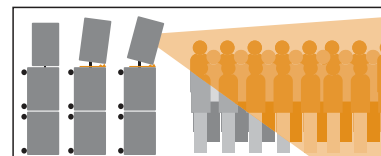


Controller), our engineers have developed an extremely powerful new controller that is unique in its ability to compensate for these dynamically generated tonal colourations. The final result is a breathtakingly vivid and natural sound that remains stable and very manageable all the way from a whisper to a roar. To make it even easier to adapt the rig to different applications and configurations, this DDO™ Controller offers eight presets.



Facts & Features

- 56-bit DDO™ System Controller
- 8 Controller presets
- 3200 W RMS overall system output power
- 2x mid/high units (12"/1.4"), 600-watt PWM power amp und DuoTilt™
- 2x active subwoofers (15"), 1000-watt PWM power amp
- 2x passive subwoofers (15")
- Optional rigging yoke and protective covers
- 100 mm casters
- Ergonomically shaped handles



HK AUDIO® Tilt-Unit

In combination with the integral HK AUDIO DuoTilt™, the optional Tilt unit lets you incline the mid/high units at angles of either 7.5° or 15° to make the most of the sonic energy by aiming the speakers squarely at the listeners, ensuring the sound is clear and focused.

Top-notch components and 56-bit computing power

ACTOR DX is a powerhouse package: Top-drawer components such as the B&C 1.4" driver and dramatically responsive PWM digital power amps join forces with the novel DDO™ Controller, which uses its 56-bit computational agility to compensate for the speakers' dynamic distortion and provide a richly detailed signal free of discolouration.

With its extremely high-performance components and revolutionary DDO™ controlling, the new ACTOR DX delivers breathtakingly vivid and natural sound; yet even at the highest volume levels the sound remains transparently clear while at low levels it loses none of its warmth and fullness.

To learn more about ACTOR DX and its groundbreaking DDO™ technology, visit our website at www.hkaudio.com.



ACTOR DX Full Stack

comprises 2x ACTOR ADX 112 A, 2x ADX 115 Sub A, 2x ADX 115 Sub B



ACTOR DX Half Stack

comprises 2x ACTOR ADX 112 A, 2x ADX 115 Sub A



ACTOR DX Top Only

comprises 2x ACTOR ADX 112 A



ACTOR DX Double Stack

comprises 4x ACTOR ADX 112 A, 4x ADX 115 Sub A, 4x ADX 115 Sub B



ADX 112 A Mid/High Unit

These enclosures are loaded with one 12" HK AUDIO Custom speaker and one 1.4" compression driver with a 60° x 40° CD horn. Delivering 600 W RMS, the Class D power amp is housed in a separate chamber along with the DDO™ Controller.



ADX 115 Sub A Subwoofer

The ACTOR DX A Sub's housing is split up into two chambers. The front chamber serves as the speaker cabinet for the 15" front-loaded loudspeaker, which has a power handling capacity of 500 W RMS and a nominal impedance of 8 ohms. The power amp is housed in a separate compartment at the rear of the cabinet.



ADX 115 Sub B Subwoofer

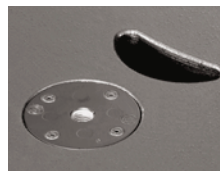
The housings and speakers of the ADX 115 Sub Bs and Sub A are identical. The Sub B is the passive version of the Sub A.



56-bit DDO™ Controller with 8 presets that quickly adapt the rig to suit different scenarios:

- 0 Mute
- 1 Top Only
- 2 Half Stack DJ
- 3 Half Stack Band
- 4 Full Stack DJ
- 5 Full Stack Band
- 6 2 x Stack DJ
- 7 2 x Stack Band

Backlit display for easy operation even on dimly lighted stages



M20 pole mount and additional grips integrated into the subwoofer enclosures



Subwoofers come factory-equipped with 100 mm casters for easy transport.

Technical specifications.

ACTOR ADX 112 A

Connections:	1x XLR Line In, 1x XLR Line Through, 1x XLR Subwoofer Output
Line In:	XLR female (pin 1= ground; 2= +, 3= -)
Input:	Electronically balanced & floating
Input impedance:	20 kOhms
Sensitivity:	Switchable between -10 dB and 0 dB (equivalent to +4 dBu)
Max. input level:	+22 dBu
Frequency response: 1 (+/- 3dB)	80 Hz-19 kHz full-range mode 130 Hz-19 kHz satellite mode
Axial sensitivity 1W@1m:2	106 dB
Maximum SPL @1m:2	129 dB @ 10% THD 3
Maximum SPL Peak:	134 dB @ 10% THD
Mid/high-range amplifier:	1x 600 W RMS/Class D
Active protective circuits:	DDO™ controller, multi-band limiter, subsonic filter
Midrange speaker:	12"
Tweeter/ driver:	1.4"
Directivity:	60° x 40° CD horn
Crossover frequency:	950 Hz, 12 dB/octave
Pole mount:	HK AUDIO DuoTilt™, 36 mm, 7.5°, 15°
Rigging points:	4x M10 bushings for optional rigging yoke
Accessories:	ACTOR DX Tilt Unit, 7.5°, 15°
Dimensions (WxHxD):	39 x 65 x 42 cm 15-2/8" x 25-5/8" x 16-4/8"
Weight:	32 kg / 70.6 lbs.

1) Via active crossover

2) All measurements taken under half-space conditions

3) Averaged between 50 Hz and 120 Hz with the music signal

ACTOR ADX 115 Sub A

Connections:	1x XLR Subwoofer Input, 1x XLR Subwoofer Through 1x Speakon® Parallel Out
Subwoofer Input:	XLR female (pin 1= Ground; 2= +, 3= -)
Input:	Electronically balanced & floating
Input impedance:	20 kOhms
Sensitivity:	+10 dBu (all the way up)
Max. input level:	+22 dBu
Frequency response:1 (+/- 3dB)	48 Hz-130 Hz
Axial sensitivity 1W@1m:2	104 dB
Maximum SPL @1m: 2	127 dB @ 10% THD 3
Maximum SPL Peak:	134 dB @ 10% THD
Subwoofer amplifier:	1x 1000W RMS/ Class D
Active protective circuits:	DDO™ Controller, Multiband Limiter, Subsonic Filter
Woofer:	15"
Pole mount:	M20 threaded base plate
Casters	4x 100 mm casters on the rear panel
Dimensions (WxHxD):	48 x 65 x 66 cm incl. casters 18-7/8" x 25-5/8" x 26"
Weight:	36.6 kg / 80.8 lbs.

ACTOR ADX 115 Sub B

Connections:	1x Speakon Input
Power handling, nominal:	500 W RMS/ 8 Ohms
Frequency response +/- 3dB: 1	48 Hz-130 Hz
Axial sensitivity 1W@1m: *	104 dB
Maximum SPL @1m: 2	127 dB @ 10% THD 3
Maximum SPL Peak:	134 dB @ 10% THD
Woofer:	15"
Pole mount:	-
Casters	4x 100 mm casters on the rear panel
Dimensions (WxHxD):	48 x 65 x 66 cm incl. casters 18-7/8" x 25-5/8" x 26"
Weight:	33.7 kg / 74.3 lbs.

Specifications subject to change without notice.
Copyright 2006 Music & Sales GmbH • 01/2006



HK Audio® • Postfach 1509 • 66595 St. Wendel
Germany • info@hkaudio.com • www.hkaudio.com
International Inquiries: fax +49-68 51-905 215
international@hkaudio.com