

# Flex Range U12+



## U-12+

### APPLICATIONS

- Paging and announcing indoors and outdoors
- Audio/Visual productions
- Live broadcasting production facilities
- Front fill and under balcony or over balcony delay system in theaters
- Music playback system in hotels, restaurants or small clubs
- Churches
- Conference rooms
- Personal monitoring
- Surround sound in cinemas

### INTRODUCTION

The AXYS® U-12+ is the introduction to a new generation in compact sound reinforcement systems. It represents an ultra-compact public address or sound distribution system, self-powered and two-way actively controlled, with high acoustical output capability and true studio reference quality.



### MULTI-PURPOSE

Because of the well considered design, both in terms of quality and in terms of usability, this system will cover a large variety of applications, from industrial sound processing to any other kind of sound reinforcement like monitoring and as music playback system.

### THE ACTIVE CONCEPT

The introduction of the active concept in a system also designed for industrial purposes will be a breakthrough in the world of sound contracting. The active concept does not suffer the disadvantages of conventional and often outdated 70 volt ELA speaker systems. Why distributing high voltage audio while mains power is nowadays almost everywhere at hand?

The U-12+ is equipped with two power amplifiers and control electronics, eliminating the need of extreme long speaker wiring and high power audio transformers. With this concept the use of delay grouping in industrial applications has come within reach and thus proper sound projection possibilities. The system features a volume control and a contour switch offering maximum flexibility in all situations.

### HIGH RELIABILITY

The control electronics contain the DLC (Dynamic Level Control), a circuit which monitors and controls the average power applied to the speakers according to their power handling capacity without affecting the dynamic response. This method guarantees safe operation under all circumstances.

## HIGH FIDELITY

The U-12+ is equipped with one 6.5" low frequency cone driver, supplied with a 1.5" voice coil preventing power compression, providing high SPL capability and a 1.1" ferrofluid cooled soft dome tweeter to ensure high definition and low distortion. The U-12+ is offering superb fidelity and full bandwidth reproduction. If extended low-end reproduction is required the AXYS® UB-24, an optional active sub-woofer, can be easily integrated in a system set-up.

## ULTRA COMPACT

The AXYS® U-12+ is an ultra compact loudspeaker system with high acoustical power capability (112 dB SPL continuously), decreasing the often large space required. Its distinguished design and the small housing make the U-12+ unobtrusive in all kinds of environments. Upon request the unit can be factory finished in any color in order to meet the architectural requirements. The U-12+ comes with a vertical U-bracket offering ease of installation. A horizontal U-bracket is available as an accessory.

For fixed installations the U-12+ is the ultimate choice.

## TECHNICAL DATA<sup>1)</sup>

<b>Acoustical<sup>2)</sup></b>	
Frequency Range(f-3dB) <sup>3)</sup>	80-20000 Hz(+ /-3 dB)
Max.SPL (1m) <sup>4)</sup> - Continuous	110 dB
Max.SPL (1m) <sup>4)</sup> - Peak	113 dB
Coverage Angle <sup>5)</sup>	110°Hx110°V
Self generated noise SPL (A-weighted,1m)	10 dB
<b>Electrical</b>	
Input -Sensitivity(100 dB <sub>SPL</sub> /1m)	-6 dB
-Impedance (balanced)	2x10k Ω
-Connector(XLR female)	p2=+, p3=-, p1=gnd
Link -Impedance	hard wired to input
-Connector(XLR male)	p2=+, p3=-, p1=gnd
Cross-over -Type	24 dB/Oct
-Frequency (-6dB)	3.5 kHz
-Control switch	contour switch and volume control
Power amplifiers <sup>4)</sup>	2x100 W <sub>rms</sub> (8 Ω)
Protection -DLC	standard
-Thermal	11dB gain reduction if T <sub>heatsink</sub> >72° C mute if T <sub>heatsink</sub> >80° C
-Overload	11dB gain reduction
-DC protection	standard
Indicator LED -green	contour filter off
-red	contour filter on
-flash	start-up / thermal and DC- protection mute
Mains -Voltage <sup>6)</sup> (+5/-10%)	230 V

-Power inlet	IEC 320
-Fuses (slow blow)	1x1.6 A
-Power Consumption	17 W <sub>idle</sub> / 120 W <sub>full load</sub>
<b>General</b>	
Temperature Range (ambient)	0 to +40° C
Transducers	1 x 6.5"/ 1x1.1"soft-dome tweeter
Dimensions(H x W x D)	12.4" x 8.25" x 8.1" 315 x 210x206 mm
Weight	20 lbs. / 9 kg

- 1) Specifications are valid for 1 unit with 'contour' filter switch off (green LED) and at max. position unless stated otherwise.
  - 2) Measured under anechoic 'full-space' conditions unless stated otherwise.
  - 3) Low cut-off frequency 'full space', 'contour' filter on.
  - 4) Measured with gated sine waves.
  - 5) -6 dB, average value 2k - 15k Hz.
  - 6) Other voltages are available upon request.
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