

## Tender text

### L-RAY/1000

#### Professional PA speaker array (controlled by DSP software), active, 1,000 W

Compact array of high power capability with 4 mid-high range speaker units and a dual bass module, each section with its own 350 W power amplifier and controlling software (the configuration of the system is supported by a PC, but it operates as a stand-alone unit). Supplied with extensive and variable equipment for suspended mounting systems (Flyware). The mid-high range systems are each equipped with 2 x 10 cm (4") high-performance speakers and a magnetostatic speaker for a perfect reproduction rich in detail. The dynamic characteristics are absolutely convincing, at the same time the tonality at the basic setting is very pleasant. Despite its compact size, the bass module with 2 x 20 cm (8") bass speaker provides an amazingly deep bass reproduction and a high level stability which is only possible by using special bass speakers of very high power capability and the comprehensive DSP optimisation.

The software allows the following adjustments (min. system requirement is a Windows PC only, WIN98 or higher, with CD drive and interface):

- Parametric equalizer (6 bands)
- Filters (high-pass or low-pass up to 36 dB/oct. with various characteristics)
- Level
- Compression and limiting
- Delay

Up to 10 L-RAY systems can be addressed via one RS-485 data bus. With the optional USB/RS-485 converter DA-70157, it is possible to connect a PC or laptop with USB interface to the serial RS-485 interface. On delivery, the software of the system is matched to a perfect base linearity and can be used immediately. Otherwise, the software adjustments are extremely easy to do and sound engineers can even operate it intuitively.

The system is supplied with a robust mounting frame which is both suitable for suspended installation and for floor and stage applications. The array elements can be curved in 1° steps. The individual components are locked via quick-release pins. The mounting frame also allows for suspended installation of the array elements only, without the subwoofer.

Furthermore, the array elements feature a connecting plate for a bracket for mounting it onto a stand. With the accessories LR-1000U and KM-21367, which are both available at option, the system also allows for a ground-stacked configuration. For this purpose, the subwoofer cabinet features a recessed M20 mounting plate.

The speaker cables with NEUTRIK SPEAKON connectors are in the scope of delivery and allow to connect the parts with each other and with the subwoofer.

Connection to the mains is done via a POWERCON jack, suitable mains cable AAC-115P is included in the delivery.

The robust wooden cabinets feature grilles and a durable structured coating.

The L-RAY/1000 systems are a very high-quality solution for every PA application where both perfect tonality and perfect radiation across the room are required. The advantages of the system particularly take effect with fixed installations in clubs and discotheques as well as mobile stage applications of medium size. For larger PA applications, the use of several L-RAY in a cluster is recommended.

#### Specifications:

Active/passive	active
Transmission method	Cables
Total output power	1,000 W
Power rating (RMS)	700 W (350 W + 350 W)
Frequency range	50-25,000 Hz
THD	< 0.1%

S/N ratio	80 dB
Input signal	1-10 V/30 kΩ
System	compact line array
Bass speaker	2 x 20 cm (8")
Midrange speaker	8 x 10 cm (4")
Tweeter	4 x magnetostatic speaker
Speaker size	20 cm (8")
Sensitivity	98 dB/W/m
Max. rated SPL	121 dB
Radiation angle, horizontal	120°
Radiation angle, vertical	30°-90° var.
Housing material	wood
Colour	black
Admiss. ambient temp.	0-40 °C
Power supply	~ 230 V/50 Hz/1,400 VA
Width	495 mm
Height	850 mm
Depth	610 mm
Weight	47.88 kg
Inputs	XLR jack (line), NEUTRIK SPEAKON (speaker) PowerCon (power supply)
Outputs	XLR par. out (line), NEUTRIK SPEAKON par. out (speaker)
Other features	interface for DSP programming: USB, RS-232, RS-485 IN & OUT, supplied with software which is both extremely easy to use and very efficient

Brand: IMG STAGELINE

Type: L-RAY/1000

Quantity: 1

Packing dimensions (W x H x L): 0.72 x 0.64 x 0.72 m

Gross weight: 55.76 kg

Net weight: 47.88 kg

Item weight (w/o accessories): 47.88 kg