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# MICROPHONE AND LOUDSPEAKER REELER SYSTEM

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## MICROPHONE REELER

Cable length	16 or 25 meters
Cable type	Microphone StarQuad (four insulated twisted conductors in a common braided copper shield)
Cable diameter	3 mm (2 mm by a special order)
Speed	controlled, up to 0.5 m/sec
Maximum allowable load weight	Up to 2 kg
Positioning accuracy	+/- 1 cm
Microphone connector type	XLR 3 pin, LEMO optionally
Power supply voltage	110-220 V AC, 24 V DC optionally
Control	In operational mode – from control server. In service mode – local pushbuttons.
Dimensions	500 x 600 x 150 mm
Weight	30 kg



Microphone and loudspeaker reelers provide precise vertical positioning of microphones and active loudspeakers in theaters, auditoriums, studios, concert and conference halls and in other situations that require quick vertical microphone or loudspeaker repositioning. Possible applications include sound recording, TV productions and microphones and loudspeakers repositioning as a part of dynamically-reconfigurable acoustics system.

The microphone reeler is available in two modifications: with 16 m and 25 m cable lengths. Other cable lengths are available on request. A professional Starquad microphone cable provides a very high EMI and RFI noise immunity and makes it possible to use the microphone reelers in the most unfavorable electromagnetic conditions, for example in proximity of lighting equipment. Cable outer diameter may be specified at the point of order.

For safety purpose, user can limit the maximum deployment length of the cable that correspond to the lowest operational position of a microphone.

Standard mounting options include grips for fixing the reeler on a 50-60 mm pipe and fixtures to install the reeler on a stage grid. Other fixtures are available on request.

## LOUDSPEAKER REELER

Cable length	16 or 25 meters
Cable type	Special: • 22 AWG stranded (7x30) TC conductors, foam FEP insulation (audio), shielded; • 18 AWG (16x30) TC conductors unshielded, polypropylene binder tape, (power) ; • Kevlar reinforcement.
Cable diameter	5.2 mm
Speed	controlled, up to 0.5 m/sec
Maximum allowable load weight	Up to 10 kg
Positioning accuracy	+/- 1 cm
Loudspeaker connector type	XLR 5 pin
Power supply voltage	110-220 V AC, 24 V DC optionally
Control	In operational mode – from control server. In service mode – local pushbuttons.
Dimensions	500 x 600 x 150 mm
Weight	30 kg

The loudspeaker reeler is similar by design to the microphone reeler and provides the same control functions. However, it works with a specially-designed cable combining a shielded conductor pair (22 AWG) for audio signal, an unshielded power feed pair (18 AWG) and a Kevlar core to ensure cable integrity. The maximum load of the cable is 10 kg. The use of the cable complies with all major safety standards.



## CONTROL SYSTEM

The reelers are controlled by a special control server via Ethernet network. One control server may control up to 100 reelers. An additional portable controller (iOS or Android based tablet) may connect to the server to allow convenient on-site system operation.

The control system includes emergency stop functions to stop the reelers in case of a danger.

The control software can be integrated with third-party systems (for example, with dynamically configurable acoustics systems). DMX512 control option is available on request.

## THE CONTROL SOFTWARE PROVIDES THE FOLLOWING FUNCTIONS:

- Speed and position control of each reeler separately.
- Speed control of a group of reelers (virtually unlimited number of reeler groups may be created).
- Position presets for individual reelers and groups.
- Groups of presets for different shows.
- Individual names to every reeler, preset and group.
- Using an image (e.g. a floorplan) as a background for the reeler choice interface.
- Zero position calibration and height limit setting.
- Real-time status data for each reeler.

## TABLET APPLICATION

