



**EXCLUSIVE MODULAR DESIGN ALLOWS MAXIMUM FLEXIBILITY TO SUIT ALL CUSTOMER'S NEEDS**



**Strand Sirio 4000**  
Fresnel Daylight



**ADB C 203**  
Anti-Halo Pc Spot



**Spotlight Vedette 12**  
Followspot with  
colour changer



**ETC Source Four**  
Profile Spot

**CONTROLS**

4-button keyboard with display for the setting of the main functions of the ARC system:

- selection of first DMX control channel
- selection of speed (slow / fast)
- selection of resolution (8 or 16 bits)
- setting the max/min run limits of different functions
- selection of self test function

**CONNECTIONS**

**Supply:**  
Panel IEC plug: to supply control electronics and motors.  
Flexible cable of appropriate size: to supply lamp.

**Control:**  
5-pole XLR male connector:  
for DMX control signal IN  
5-pole XLR female connector:  
for DMX control signal OUT  
Red LED 1:  
indicator of low voltage supply of the system  
Red LED 2:  
indicator of supply of internal DMX  
Green LED:  
indicator of incoming DMX signal

**arc**system

High precision motorised yokes for theatre and professional applications





## OVERVIEW

The ARC (Automated Remote Control) system enhances the performance of all conventional lighting fixtures: from theatre spots, to TV luminaires and even video projectors. In practice, these fixtures, although more complex and expensive than the corresponding traditional models, offer a much higher level of performance and, in the medium term, a significant cost saving.

A single motorised spot, be it a Fresnel, PC or others, can in practical use replace two or more conventional spots. This represents savings, not only with the need for fewer lighting fixtures, but also reduced cable runs, reduced dimming requirements and the all important saving on power consumption.

The use of intelligent motorised spots can also save time. No longer will it be necessary to spend valuable time and man power flying fixtures in or focusing at high level (usually above awkward stage sets). All focusing can be carried out from the control desk and, once a focus position is defined, memorising the movement for future repetition.

Last but not least, intelligent motorised spots provide an important creative aspect for the lighting designers who have available a flexible and powerful tool for applications and results that are unobtainable with conventional fixtures.

# arc system

## GENERAL TECHNICAL FEATURES



## DISCOVER THE RANGE OF ARC MOTORISED YOKES



arc stage

DMX motorised yoke with 2 parameters (pan and tilt) or 3 parameters (pan, tilt and iris/focus) for small lighting fixtures (1000, 2000W max)



arc stage plus

DMX motorised yoke with 2 parameters (pan and tilt) or 3 parameters (pan, tilt and iris/focus) for larger lighting fixtures (up to 5000W max)



arc svobo

DMX motorised yoke with 2 parameters (pan and tilt) for ADB Svoboda lighting fixtures



arc video

DMX motorised yoke with 2 parameters (pan and tilt) for small/medium video projectors

### High Precision Focusing



The DMX control signal uses 2 channels each of 8 bit, giving a control definition higher than 1/10,000 and, thanks to the precise mechanics, can guarantee a physical focusing precision better than 0,01 degrees.

### Possibility of manual positioning



The provision of a clutch system built onto the motors allows for pan, tilt, beam and iris adjustment to be made manually without causing damage, even when the power to the fixture is on. This also acts as a safety feature. For example, if the fixture were to be accidentally hit by a piece of scenery, the motors will move freely, reducing the risk of damage to unit.

### Smooth and progressive movement



The use of C.C. motors, controlled by an encoder for speed regulation and a potentiometer for accurate positioning, allows a smooth movement, with progressive accelerations and decelerations, even on larger fixtures.

### Flexibility of use



Over 360° of pan is obtainable so that full horizon can be covered. The degree of tilt is greater than 180° making lighting from the grid, to downlight on the stage and even the audience possible. It is also possible to include in the software a dedicated function in case any lamps utilised do not allow the fixture to be positioned upside down. The spots can be hung on a truss or lighting bar, or placed direct on stage.

### Total noise-free focusing



Thanks to the use of largely over-sized worm gear motors, the spot movement is absolutely noise-free. This allows focusing to be adjusted during the show, without disturbing the audience.

### Position maintained – no reset necessary



In the case of power failure, even during the show, all spots will maintain their most recent position and settings. Once power is restored, the fixtures do not require a "reset" to return to the original position. Even if the fixture is powered down for lamp replacement the spot will return to the original position when power is restored.