



Sfiligoi Company has been producing innovative articles for aquaristic use for several years, with special attention to marine aquariums. One of our brand new products is the electronic dimmer **ACLS** (Advanced Control Lighting System).

ACLS is a revolutionary device, patented by SFILIGOI, which can reproduce the sunset-sunrise effect on the aquarium tank only by using HQI bulbs (**ACLS** allows gradual lighting up and darkening from 0 to 100% and vice versa of the lighting).

Thank to **ACLS** the experts in aquariology field can **reproduce a an ecosystem** on which fishes, corals and other inhabitants in the aquarium tank can find all the characteristics of the real natural habitat.

Even rare and weak species can easily get used to the aquarium habitat: the **biologic cycle** of the sun, day/night and the seasons is in fact perfectly reproduced since the passage from daylight to dusk is very gradual.

Consequently, there is no shock for the animals and invertebrates in the aquarium.

ACLS recreates the natural conditions of sun and moon light, and in particular of the moon phases, helping the reproduction of the aquarium guests, especially of the invertebrates.



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ACLS

During the sunrise-sunset phases the dimmer reduces the power, the lamp absorbs and consequently grants high energy savings. ACLS offers many options, for example the reproduction of the cloudy day, power reduction. Further, after the tension falls, ACLS allows turning on of the lamp reducing the time by 50% in comparison with common magnetic reactor.

ACLS FUNCTIONS

Using the display and the keypad you can control:

THE WATCH/DATARY - TIMER INTO THE ACLS (day/month / year/time)

With this function you can set the time in hours and minutes. Moreover you can set the day, the month and the year, because the system includes also the leap year.

THE DURATION OF THE SUNRISE AND OF THE SUNSET

With this function you can select both the duration of the sunrise and of the sunset from 5 minutes to 6 hours.

THE DURATION OF THE MAXIMUM LIGHTING ("Midday")

With this function you can select the Maximum Lighting from 1 minute to 12 hours.

CLOUDY DAYS

With this function you can select every 5, 10 or 15 days a cloudy day. The ACLS reduce the Maximum Lighting at 60 %.

THE "NEW" FUNCTION TO REPLACE THE BULB

You can avoid the shock of the increase of light when you replace almost exhausted lamps with new ones : the "NEW" function reduces the power of the new bulb at 75 % and increases it gradually of a 2 % per each, day till the maximum power in 15 days.

REDUCTION OF THE LIGHTING FLOW

You can adjust the bulb power and improve the lighting flow of some trade mark bulb (for example you can reduce "the green effect" of the Sylvania AquaArc 10.000 °K bulb)

STANDARD TIMER FOR HQI BULBS

With a standard timer for the HQI bulbs, you can use only one ACLS system to control lightings equipped with 2 or 3 HQI (only one HQI bulb works using ACLS system, the other bulbs work using standard magnetic reactor).

TIMER FOR ACTINIC TUBES

A standard relay controls the fluorescent lamps (actinic blue): you can use the fluorescent tubes to increase the blue luminosity flow.

New ACLS "FULL DIMM" version

With this new release the ACLS dimms in the same time both the HQI bulbs and T5 tubes. So you can have both the sunrise and sunset more realistic. ! **REALLY AWESOME !!!!!**

MOON PHASES LAMP

The ACLS drive the moonlights LEDs with 15 steps up and 14 steps down: one day every 29 days the moonlights (LEDs) are switched off (full dark) (new moon).

AUTOMATIC PHOTOPERIOD

Thank to the "AUTO" option ACLS can automatically increase the lighting flow as we approach to summer and consequently reduce it when we approach to winter: ACLS automatically anticipate (or postpone) the sunrise phase as we approach to summer (or winter);

TOTAL PHOTOPERIOD

With two bulbs and two ACLS at least you can obtain a special effect in your aquarium tank: you can have the sunrise effect on the East and the sunset on the West (total photoperiod);

SERIAL PORT RS 485

ACLS has a serial port RS 485 to control the lighting from a P.C. (version 250 and 400 W only).

ACLS can dimmer bulb from 150 to 400 W power.

ACLS has an electronic system which can delete EMI jammings and noise to obtain a $\cos\phi = 1$.

ACLS has an electronic system which keeps the power light very stable during all the lamp life.

The electronic HQI ballasts reduces the weight of the suspension lamp by about 4/8 Kg so that more powerful lamp can be hanged.

Power	250 W	400 W
Voltage	100-240V 50/ 60Hz	100-240V 50/ 60Hz



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