



**Imagine...A 36,000 Hour MR16 Constant Color Halogen (Not LED)
See Our 18,000 MR16 Combined With Our Lamp Maximizing Regulator**

Titanium MR-16

The Longest Life Halogen MR-16 Lamp Series on the Market

Introducing the longest life MR-16 on the market with lamp life up to 18,000 hours. Historically MR-16 lamps were known for outstanding performance, but limited life capability. We broke new ground with the introduction of the Titanium lamp series which allowed for long lamp life while maintaining outstanding lamp performance. .

Manufactured under ISO 9001 guidelines and through proprietary advancements in filament design, gas fill technologies and refinements in the reflector coating process, Titanium lamps produce long life hours and maintain their consistent halogen color throughout the life of the lamp. The halogen capsule also helps to protect ultraviolet sensitive objects by eliminating harmful UV emissions.

Rated at more than three times the life of standard MR-16 lamps on the market, Titanium lamps are the astute choice for those applications where frequency of lamp changes and cost of ownership are significant factors.

Available in Spot, narrow Flood, Flood and Wide Flood beam spreads, the Titanium employs an axial filament that is computer-aligned to attain precise 12°, 24°, 36° and 60° beam angles.

FEATURES & BENEFITS

- Up to 18,000 Hour lamp Life – A rated lifetime of over three times the life of other / standard MR-16 lamps currently on the market.
- Minimizes the amount of maintenance required to support retail, commercial and display lighting installations.
- Dramatically reduces lamp costs – Eliminates up to three lamp replacements over the life of the lamp
- Halogen Capsule Cuts Harmful UV – Reduces the amount of material wear from harmful UV radiation.
- Advanced Titanium Oxide Coating – Consistent color throughout lamp life.
- Axial Filament – Provides optimal light output and consistent beam spreads.
- Crisp White Halogen Light
- High Color Temperature – 3100K
- Cool Beam Effect
- Base Type GU5.3

Net Price Per Lamp: \$11.95 each

Watts (W)	Ordering Code	Lamp Code	Voltage	Color Temp (K)	Beam Angle	Beam Spread	Luminous Intensity (cd)	Average Life (h)***
20	1003551	BBF/FG/ULTRA TITAN	12	3000	24°	Narrow Flood	880	12000
20	1003552	BAB/FG/ULTRA TITAN	12	3000	36°	Flood	450	12000
35	1003556	FMV/FG/ULTRA TITAN	12	3000	24°	Narrow Flood	1700	18000
35	1003557	FMW/FG/ULTRA TITAN	12	3000	36°	Flood	950	18000
35	1003558	FMW60/FG/ULTRA TITAN	12	3000	60°	Wide Flood	370	18000
50	1003554	EXT/FG/ULTRA TITAN	12	3100	12°	Spot	8600	18000
50	1003555	EXZ/FG/ULTRA TITAN	12	3100	24°	Narrow Flood	2700	18000
50	1003553	EXN/FG/ULTRA TITAN	12	3100	36°	Flood	1500	18000
50	1003559	FNV60/FG/ULTRA TITAN	12	3100	60°	WideFlood	600	18000

***Achieve 200% (double) the rated lamp life with our voltage regulator- See attached.

Contact Information: 818-349-2663 or sales@lightclubusa.com



Double Your Lamp Life!

I.Q. SYSTEM

Landscape Lighting Voltage Regulator

LightClub USA's I.Q. System employs the I.Q. Voltage Regulator to change the rules of landscape lighting. I.Q. Voltage Regulators can be pre-installed on LightClub USA landscape lighting fixtures. The I.Q. Voltage Regulator is attached to the fixture leads, then to the main cable run, and finally, buried directly in the ground. One regulator is required for each fixture.

I.Q. Voltage Regulator

The smart solution for landscape lighting

- Turns hours of wiring design time into minutes
- Regulates 12-18 volts to 11.6 volts
- Provides equal voltage to each light on the system
- Eliminates complicated Multi-tap calculations
- Unit is completely potted
- Overload Protected
- 75 Watt Maximum
- Eliminates the "pop corn" affect where burned out lamps affect cable resistance

Voltage Affects on 12-Volt Lamps		
Voltage	Light Output	Lamp Life
13.0	131%	35%
12.5	120%	67%
12.0	100%	100%
11.6	93%	200%
11.0	75%	300%
10.5	65%	500%
10.0	50%	900%

Model No. LVR12-18 Dimensions: 1" W x 1.5" L x .5" H

Note: 1 regulator required per fixture. Can be direct buried or simply placed in a PVC enclosure / pipe.



Contractor pricing: \$20.00 each
If purchased with fixture: \$18.00 each



OLD RULES

REQUIRES MULTI-TAP TRANSFORMERS

- Every tap requires many complicated steps that cost you time and money
- Can't share higher tap circuit-runs

HOURS OF WIRING DESIGN

- Calculate voltage to the first and last fixtures on every circuit
- Complicated wiring methods: hub, tee, loop, daisy chain, etc
- Up to 13-steps to calculate voltage drop for each circuit-run

INCONSISTENT LAMP LIFE, COLOR & OUTPUT

- Different voltages to every lamp causes decreased lamp life
- Inconsistent lamp voltages will vary color and light intensity
- Increased call-backs due to lamp problems

NEW RULES

REQUIRES SINGLE 18-VOLT TAP

- Fixtures limitations eliminated: place them anywhere
- Eliminates over-voltaged lamps

MINUTES OF WIRING DESIGN

- One 18-volt tap is used for every circuit run
- Pick wire length and gauge from the chart and you're finished!
- Simple 3-step process- just determine:
1. watts; 2. distance, 3.wire size

CONSISTENT LAMP LIFE, COLOR & OUTPUT

- Regulating voltage to each lamp increases lamp life up to 200%
- Every lamp will produce same color and intensity on a single wire run
- Reduce call-backs from inconsistent lamps



FREQUENTLY ASKED QUESTIONS

How does the regulator work?

The regulator is a small (1" x 1" x 1.5") solid-state device, designed to take secondary transformer input voltage (12-18 volts) and regulate the output to 11.6 volts. The regulator does not increase voltages, and it will not stop the lamp from operating at voltages lower than 12-volts.

What are the benefits to the Designer and Contractor?

Say goodbye to hours of design time using multi-tap transformer runs. One 18-volt tap is the only tap needed. 18-volts is the maximum allowed by the National Electric Code and U.L. for garden transformers. All lamps will be the same brightness and color. In most cases the lamp-life will increase by 200%. No more callbacks due to under or over-volting lamps. 18-volts allows maximum distance allowed on every circuit run.

What is the maximum wattage on the regulator?

The maximum wattage on the **LightClub USA's Regulator** is 75 watts.

Can the regulator fail and over-volt the fixture?

No, each regulator has a "fail-safe" override to prevent over-voltage.

Can the regulator regulate voltages higher than 18-volts?

Not with our LVR12-18 model. The current U.L. requirements and National Electrical Codes (N.E.C.) limit the secondary tap on garden transformers to 25 amps/ 300 watts.

How is the regulator installed?

The regulator has two wires out to the fixture and two wires out to the transformer cable. The regulator is fully potted for direct burial application or it can be installed inside the **LightClub USA Regulator Stake**.

What is the warranty and life expectancy?

The regulator carries a 5-year replacement warranty. All components have a long field history in the lighting industry. Millions of similar units are used in the track lighting market every year. All components have been designed and tested not to exceed 50% of their maximum ratings.

How is the regulator ordered?

The regulator is an optional accessory on all **LightClub USA's Products**. Simply include the Low Voltage Regulator option when placing your order.

Will this change the landscape lighting industry?

Absolutely. We believe that the **LightClub USA Regulator** is the biggest breakthrough since higher tap transformers. No more multi-tap complications. No more multi-tap applications. No more limited hub systems. No more lamp voltage problems. The regulator will reduce training time for the non-electrical installer/ designer from hours and sometime days to minutes by using the simple one-tap chart.