AVA TECHNOLOGY

Lighting the world, one LED at a time
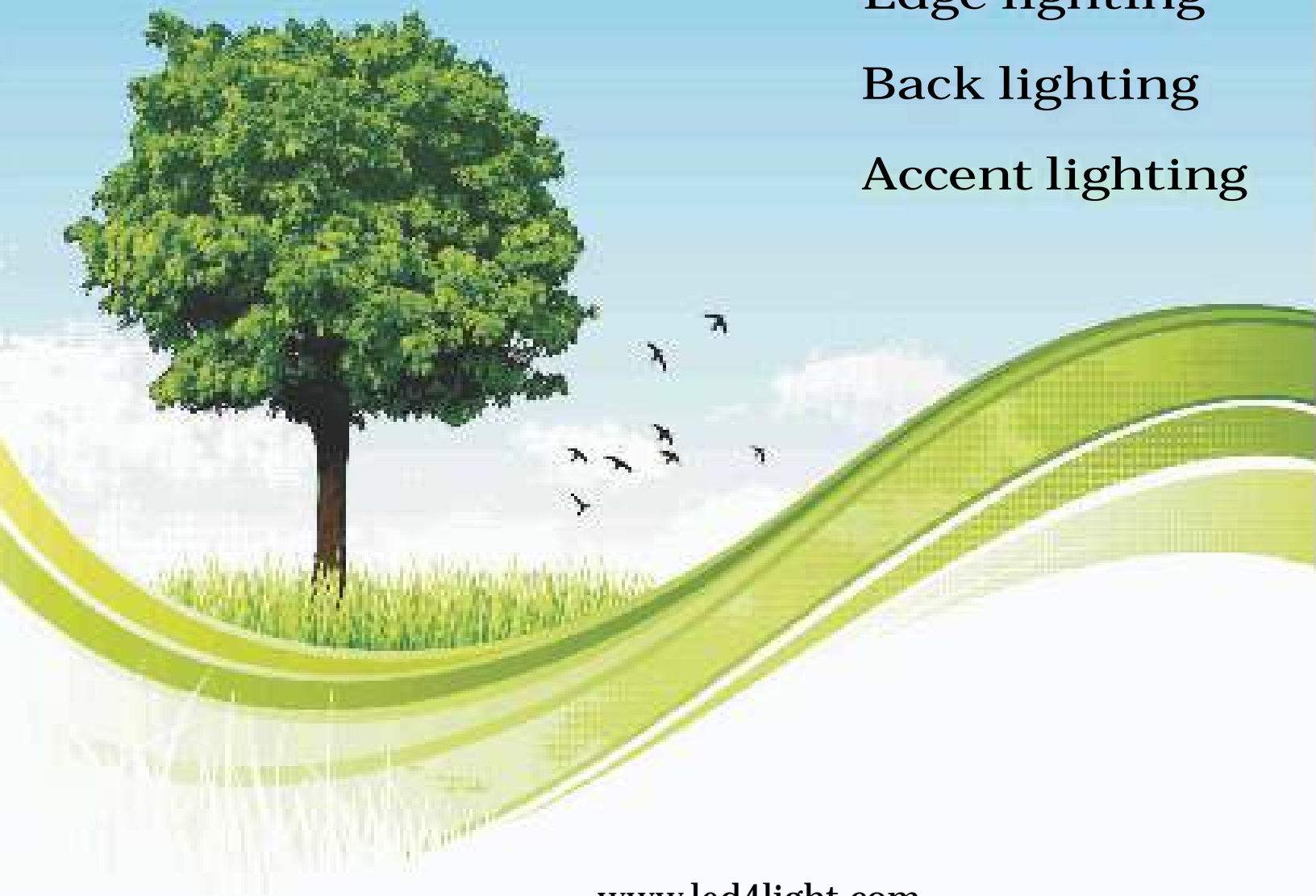
Channel letters

Pylon signs

Edge lighting

Back lighting

Accent lighting

www.led4light.com
www.ava-technology.com

Product Catalog

AVA TECHNOLOGY

Pioneer of LED Lighting Industry

AVA Technology, Inc. was founded to design and develop high-realibity LEDs for the cell phone and military industries. By late 2003s, AVA LEDs has been approved and used in numerous military defense projects in USA. Today we manufactures millions of LEDs for cell phone and military industries.

In 2008, we expand LED application to Sign and General lighting.   Although LED modules can be readily found at cheap prices, many fail in short period of time. We chose to invest in the signage industry because we saw a clear void in the market, a lack of high quality LED products.

The AVA Advantage

Quality

AVA Technology has complete quality control from its own LED components to packaged modules. Our modules are designed with embedded constant current technology. We make sure all production meets the highest standard in regars to color, brightness and efficiency. Our quality control engineers ensure color consistency from different production lots.

Reliability

The Military industry has much higher reliability requirement for LEDs.   With decades of experience manufacturing LEDs to meet these requirements, AVA Technology brings the experience, expertise, and quality standards to the Sign and General lighting industry.

Innovation

AVA Technology, Inc. has an experienced team of Research and Development engineers to innovate new LED products for signage applications. We offer full line of white and RGB product for various applications.

RGB color programming system
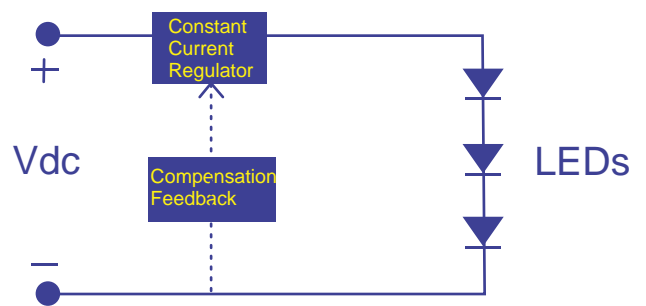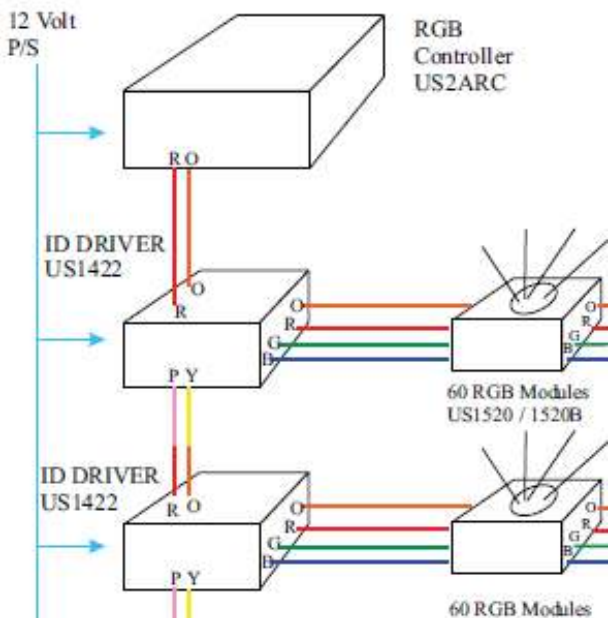
Closed Loop Constant Current Technology

Voltage drops along the line. Most competitors lack in good constant current, resulting in brighter in the front and darker in the end.

Due to our constant current circuit in our modules:
- when voltage drops, current to LEDs is increased
- when power surges, current to LEDs is restricted

THOR Series

Brightest and Most Cost Effective Signage Lighting Solution

US12-G2

US12-B3

US12-B3 RED

- US12-G2 180 degree lighting angle, illuminates 125 lumen.
- US12-B3 White, illuminates 50 lumen.
- US12-B3 Red, Brighest true Red module in market.
- Operating temperature: -30 ~ +85 C
- 12 Volt DC.
- Constant current technology.
- Thermal management technology.
- UL Listed.
- 3M VHB adhesive tape.
- Packaging: 10 feet length.
- Perfect for channel letters, pylon signs & cabinet lighting.
- Available in white & warm white.

PRODUCT SPECIFICATIONS

Model	View Angle (Degree)	Size (W x L)	Modules / Foot	LED(s) / Module	Lumen / Module	Lumen / Foot	Power Consumption / Module	Power Consumption / Foot
US12-B3 White	120	.50" x 1.25"	3	1	50	150	.6w	1.8w
US12-B3 Red	120	.50" x 1.25"	3	1	20	60	.36w	1.08w
US12-G2	180	.50" x 1.25"	2.4	1	125	300	1.2w	2.88w

POWER LOADING GUIDE

Model	60 Watt P/S (Max Load)	60 Watt P/S (Recommend 90% Load)
US12-B3 White	33 Feet	30 Feet
US12-B3 Red	55 Feet	50 Feet
US12-G2	21 Feet	18 Feet

THOR Series

US12-B4

US14-N3

- US12-B4 illuminates 100 lumen.
- US14-N4 is designer injection package, Weather Proof, illuminates 50 lumen.
- Operating temperature: -30 ~ +85 C
- 12 Volt DC.
- Constant current technology.
- Thermal management technology.
- UL Listed.
- 3M VHB adhesive tape.
- Packaging: 10 feet length.
- Perfect for channel letters, pylon signs & cabinet lighting.
- Available in white & warm white.

PRODUCT SPECIFICATIONS

Model	View Angle (Degree)	Size (W x L)	Modules / Foot	LED(s) / Module	Lumen / Module	Lumen / Foot	Power Consumption / Module	Power Consumption / Foot
US12-B4	120	.75" x 3.0"	2	2	100	200	1.2w	2.4w
US14-N3	120	.50" x 1.25"	3	1	50	150	.6w	1.8w

POWER LOADING GUIDE

Model	60 Watt P/S (Max Load)	60 Watt P/S (Recommend 90% Load)
US12-B4	25 Feet	23 Feet
US14-N3	33 Feet	30 Feet

ATOM SERIES

US1440 White

US1440 R-G-B

- Constant current technology.
- Operating temperature: -30 ~ +85 C
- 12 Volt DC.
- Thermal management technology.
- UL Listed.
- 3M VHB adhesive tape.
- Packaging: 10 feet length.
- Excellent for narrow-stroke letters, or cramped tight applications.
- US1440-Available in white, red, green & blue.

PRODUCT SPECIFICATIONS

Model	View Angle (Degree)	Size (W x L)	Modules / Foot	LED(s) / Module	Lumen / Module	Lumen / Foot	Power Consumption / Module	Power Consumption / Foot
US1440 WHITE	120	.27" x 1.25"	3	1	25	75	.3w	.9w
Us1440 R-G-B	120	.27" x 1.25"	3	1	–	–	.3w	.9w

POWER LOADING GUIDE

Model	60 Watt P/S (Max Load)	60 Watt P/S (Recommend 90% Load)
US1440 White	67 Feet	60 Feet
US1440 R-G-B	67 Feet	60 Feet

JAZZ SERIES
Vibrant, Full Color RGD LED Modules

US1520

US1520B

US1630

US1620B

- Operating temperature: -30 ~ +85 C
- 12 Volt DC.
- Thermal management technology.
- UL Listed.
- 3M VHB adhesive tape (US1520/ 1630) Screw attachment (US1520B / 1620B)
- Packaging: 10 Feet length.
- Weather Proof Package.
- US1520 &1520B modules are for Jazz Lite/Standard system.
- US1630 &1620B modules are for Jazz Ultra system.

PRODUCT SPECIFICATIONS

Model	View Angle (Degree)	Size (W x L)	Modules / Foot	LED(s) / Module	Power Consumption / Module	Power Consumption / Foot
US1520	120	.50" x 1.25"	3	1	.9w	2.7w
US1520B	180	1.00" x 1.00"	2	1	.9w	1.8w
US1620B	180	1.00" x 1.00"	2	1	.72w	1.44w
US1630	120	0.7" x 3.00"	2	3	.72w	1.44w

POWER LOADING GUIDE

Model	60 Watt P/S (Max Load)	60 Watt P/S (Recommend 90% Load)
US1520	22 Feet	20 Feet
US1520B	33 Feet	30 Feet
US1620B	41 Feet	37 Feet
US1630	41 Feet	37 Feet

Important Note

AVA RGB modules are used with AVA's RGB systems.
AVA has three (3) RGB systems:

1. Jazz Lite
2. Jazz Standard
3. Jazz Ultra

Please refer to RGB system page for more detail.

JAZZ SERIES

JAZZ *LITE* RGB SYSTEM COMPONENTS

RGB
Controller

RGB Modules

Data
Repeater

US1421

OR

US1520

OR

US1423
(Optional)

US1521

US1520B

SYSTEM CONFIGURATION

12 Volt P/S

12 Volt P/S

RGB CONTROLLER
US1421/
US1521

RGB Modules
US1520/
US1520B

Data
Repeater
US1423

RGB Modules
US1520/
US1520B

SYSTEM FEATURES

extends data
signals up to
60 RGB modules.
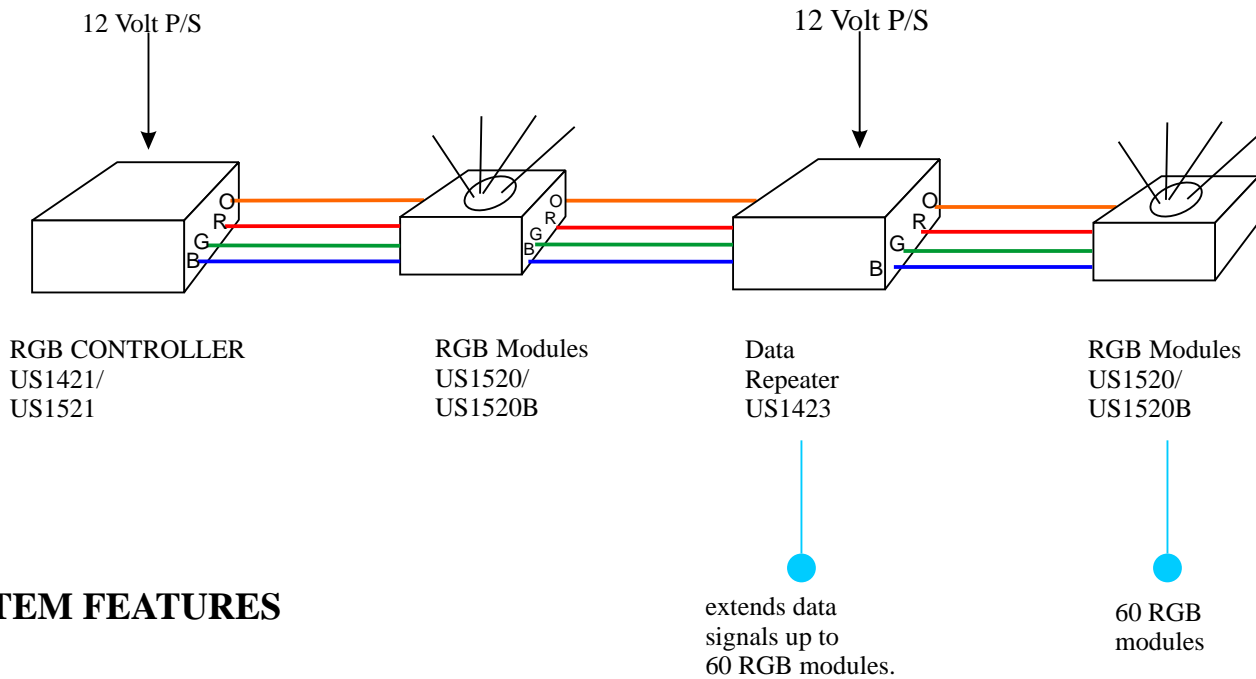
60 RGB
modules

RGB mini controller US1421 controls up to 20 RGB modules. RGB Lite Controller with remote US1521 controls up to 60 RGB modules. A data repeater is added to extend the data signal to another 60 RGB modules.

RGB controller US1421 / US1521 sends data signals to the entire RGB system, and not the individual modules. To address individual or a string of modules, you need our advance RGB systems: JAZZ Standard or JAZZ Ultra.

US1421 (RGB mini controller) comes with 6 pre-programmed color changing effects.

Us1521 (RGB Lite controller) comes with 16 fixed colors and 4 changing color effects. Remote key pad is included which provides additional adjustment for brightness and color changing speed.

Program customization is not available for JAZZ Lite RGB system.

JAZZ SERIES
Vibrant, Full Color RGB Systems

JAZZ *STANDARD* RGB SYSTEM COMPONENTS

RGB Controller	ID Driver	RGB Modules	Data Repeater

US2ARC + US1422 + US1520 OR US1520B + US1423 (Optional)

SYSTEM CONFIGURATION

12 Volt P/S

RGB Controller US2ARC

R O

12 Volt P/S

ID DRIVER US1422

O R

P Y

60 RGB Modules US1520 / 1520B

Data Repeater US1423

60 RGB Modules US1520 / 1520B

ID DRIVER US1422

R O

P Y

60 RGB Modules

Data Repeater

60 RGB Modules

ID DRIVER US1422

R O

60 RGB Modules

Data Repeater

60 RGB Modules

SYSTEM FEATURES

RGB DMX controller US2ARC assigns and implements color changing effects on clusters of RGB modules. An ID Driver heads the cluster and drives up to 60 RGB modules. A data repeater is added to extend the data signal to another 60 RGB modules.

DMX controller US2ARC can assign addresses up to 170 ID drivers. It is custom-programmable and stores up to 40 programs. There are 16 pre-set programs, 16 custom-programmable programs, and 8 macro programs which combine preset/custom programs to show color changing effects. Program customization available upon request.

Remote key pad included.

JAZZ SERIES

Vibrant, Full Color RGB Systems

JAZZ *ULTRA* RGB SYSTEM COMPONENTS
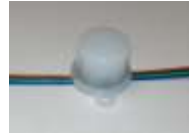
RGB
Controller

RGB
Modules

US1621

OR

+

US1620B

OR

US2PXL

US1630

SYSTEM CONFIGURATION

12 Volt P/S

12 Volt P/S

O
B
G
B

O
B
G
B

RGB
Controller
US1621/ US2PXL

RGB Modules
US1620B
US1630

RGB Modules
US1620B
US1630

implements color
changing effects up
to 1024 RGB modules.

80 RGB
modules.

80 RGB
modules.
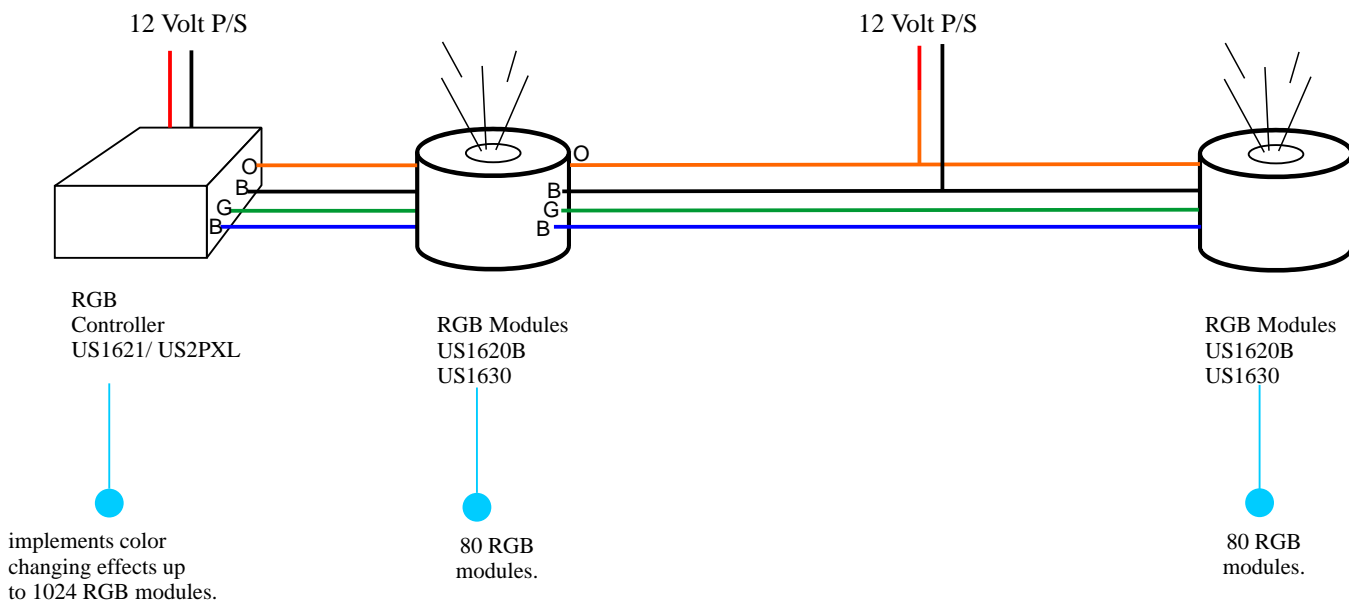
SYSTEM FEATURES

RGB controller US1621/US2PXL can address and specify color changing effects for each US1620B/US1630 RGB module. Each US1620B/US1630 RGB modules has embedded ID.

RGB controller US1621/US2PXL can address a maximum of 1024 RGB modules individually. To avoid voltage drop and current overloading along the line, a new power supply is added for every 80 RGB modules.

Controller US1621 comes with 32 pre-set programs. Controller US2PXL is programmable and can store up to 64 programs. There are 32 pre-set programs, 24 custom-programmable programs and 8 macro programs which combine preset/custom programs to show color changing effects.   Program customization available upon request.

Remote key pad included.

-8-

SILVER SERIES

Powerful and Stylish Linear LED Lighting

US2344

US2324

US23A5

- Operating temperature: -30 ~ +85 C
- 12 Volt DC.
- Constant current technology.
- Thermal management technology.
- UL Listed.
- 3M VHB adhesive tape.
- Perfect for back lighting, border lighting, cove lighting, accent lighting and cabinet lighting.
- Available in warm white, day white & cool white.

Image of frosted diffuser cover with surface and corner mounting clips.

PRODUCT SPECIFICATIONS

Model	Unit Measurements (W x H)	LEDs / ft	LED Type	Voltage	Current (Amp)	Power Consumptio	Lumen	Cuttable Length
US2344	.40" x .24"	24	5630	DC 24 V	.23A	5.5w/ft	450 / ft	2.95"
US23A5	1.20" x .37"	5	T6W6C	DC12V	.25A	3w/ft	225 / ft	2.37"
US2324	1.20" x .37"	10	T6W6C	DC24V	.25A	6w/ft	450 / ft	2.37"

POWER LOADING GUIDE

Model	60 Watt P/S (Maxload)	60 Watt P/S (Recommended 90%)
US 2344	11 Feet	10 Feet
US 23A5	20 Feet	18 Feet
US 2324	10 Feet	9 Feet

IMPORTANT NOTE:

When ordering, customers will be charged by the standard unit length of product.

Custom orders for products less than the standard unit length will still be charged the standard unit amount.

EVOLUTION SERIES Our BRAND NEW additions to AVA Catalogue

US25E5 Light Bar: LED replacement for T5/T8 fluorescence

US25E5
* Excellent energy conservation, high efficiency, no flickering or noise
* Eco-Friendly, mercury free, no UV or IR light radiation
* Built with Constant current and Thermal management technology
* Upscale replacement for T5/T8 fluorescent or LED tube, cuttable   every 10 mm
* Perfect for custom made project - back lighting, border lighting, cove lighting, accent lighting and cabinet lighting

PRODUCT SPECIFICATIONS

Model	Unit Measurements (W x H)	LEDs / ft	LED Type	Voltage	Power Consumption	Color White	Lumen	Cuttable section
US25E5-H	24mm x 23mm	54	3014	DC 24 V	4.25W/ft	3000K	350 /ft	10mm
US25E5-W	24mm x 23mm	54	3014	DC 24 V	4.25W/ft	6000K	400 /ft	10mm

US2500 Lamp: LED replacement for MR16 Halogen

US 2500
   * Compatible with traditional halogen MR-16.
   * No UV or IR light radiation
   * Highly energy efficient, Excellent Heat dissipation package

PRODUCT SPECIFICATIONS

Model	Unit Measurements	Lens Angle	LED Type	Voltage	Current (Amp)	Power Consumption	Color White	Lumen
US2500-H	50mm x 54mm	30	Hi-Power	AC/DC 12V	0.40 A	5 W	3000K	350
US2500-W	50mm x 54mm	30	Hi-Power	AC/DC 12V	0.40 A	5 W	6000K	420

Jazz Lite Controller

US 1421 Mini RGB Controller
* US 1421 is used in Jazz Lite RGB system.
* Addresses entire RGB system.
* 6 pre-set programs.
* Controls up to 20 modules.
* Remote key pad not included.

US 1521 Lite RGB Controller
* US 1521 is used in Jazz Lite RGB system.
* Addresses entire RGB system.
* 20 pre-set programs.
* Controls up to 60 modules.
* Remote key pad included.

Jazz Standard Controller

US 2ARC RGB Controller
* US 2ARC is used in Jazz Standard RGB system.
* Addresses clusters of RGB modules identified and headed by ID drivers (US1422).
* Programs up to 170 ID drivers.
* Programmable controller stores up to 40 color effect programs.
* There are 16 pre-set programs, 16 custom-programmable programs, and 8 macro programs which combine preset/custom programs to show color changing effects.
* Remote key pad included

US 1422 ID Driver
* ID driver receives signals from the RGB controller (US 2ARC) and sends the signals to clusters of RGB modules allowing the clustered LEDs to display desired color effects.
* Drives up to 60 RGB modules.

ACCESSORIES

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Jazz Lite/Standard RGB Repeater

US 1423 Data Repeater
* Extends effects to another 60 RGB modules

Jazz Ultra Controller

US 1621 RGB Controller
* US 1621 is used in Jazz Ultra RGB system.
* Addresses each RGB module (US 1620B/US1630) , allowing each module to display different color changing effects.
* Addresses up to 1024 RGB modules at any one time.
* To avoid voltage drop and current overloading the line, a new power supply run is recommended for every 80 RGB modules.
* 32 pre-set programs.
* Remote key pad included.

US 2PXL RGB Controller
* US 2PXL is used in Jazz Ultra RGB system.
* Addresses up to 1024 RGB modules (US1620B/US1630), allowing each module to display different color changing effects.
* Can be daisy- chained to address another 1024 RGB modules.
* Programmable controller stores up to 64 color effect programs.
* There are 32 pre-set programs, 24 custom-programmable programs and 8 macro programs which combine preset/custom programs to show color changing effects.
* Remote key pad included

Warranty

MANUFACTURER'S LIMITED PRODUCT WARRANTY

AVA Technology, a US company, warrants its products to the purchaser against manufacturing defects in material or workmanship for a period as specified under the enclosed product warranty. Hereafter in this warranty, AVA Technology will be referred to as "Company".

"Warranty Period" will begin at the date of original product purchase from either Company, or an authorized Company Distributor/Dealer. Company will repair or replace products covered under this warranty with same or comparable components of Company's inventory. Under no circumstances will a refund be issued for the products. Each party, Company and customer, will pay for one-way shipping for the repair or replacement of the product during the warranty period. Advances in technology may lead to "better or advanced" products being selected for replacement. This warranty is further conditioned on the purchaser contacting the Company during the warranty period between normal business hours to review issue and initiate the Return Material Authorization (RMA) process. This must be done prior to the return of any defective product. Only Company manufactured products may be returned through the Company's RMA process. No defective products, Company or otherwise, will be returned to the purchaser. The Company's RMA form must be legible and completed in detail prior to approval for return. The Company's warranty is further conditioned and will only apply to Company's products that are properly installed. This warranty is void and does not apply to products that fail as a result of neglect, mistake, misuse, alteration, or that is improperly installed and implemented. This includes but is not limited to: improper wiring, installation under improper and non-approved operating environments such as temperature, humidity or voltage conditions; improper installation using components that are not approved or are not Company's manufactured products.

Installation and usage of Company's products should only be completed in association and complete knowledge of all necessary and related codes, standards, and instructions of installation developed by local, state, and federal systems. This should include the National Electrical Code and applicable Underwriters Laboratory standards or instructions, as well as, all Company instruction guides or data sheets. It is the responsibility of the purchaser to obtain all necessary approvals, to understand the product's intended use as well as all relevant instructions, recommendations, guidelines for the proper installation using any Company product alongside related "manufactured products", used in conjunction with the accuracy and completeness of any statements. Technical information and recommendations in any form of product literature or instructions are not guaranteed, are not part of this warranty, nor do they constitute a warranty in any way. The purchaser must determine the potential applications and installations independently of the Company, must ensure the suitability of installation, as well as full product implementation.

Warranty compensation will be based on "normal usage factors". Power ratings should not exceed recommended voltage levels. Company only warrants company's own manufactured product line: LED modules and LED light bars.

FIVE YEARS WARRANTY	
THOR Series	US12-B3 White, US12-B3 Red, US12-G2, US12-B4, US14-N3
ATOM Series	US1440 White, US1440 R-G-B
SILVER Series	US2344, US23A5, US2324, US2320
THREE YEARS WARRANTY	
JAZZ Series	US1520, US1520B, US1620B, US1630
EVOLUTION Series	US2500, US25E5

Not covered under this Limited Warranty are defects of any kind caused or created by improper installation of any kind; excessive force or abrupt stress to the components; "Act of Nature". Company will not cover additional labor costs or warranty such labor associated with the replacement of the product. This warranty document represents the only expressed or implied warranty - no other warranties exist.

Want to get a FREE project estimate?

Call, email, or fax us your request

Tel: (626) 574-7726   Fax: (626) 574-7732
Email: support@led4light.com

AVA TECHNOLOGY

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