



ATG Electronics® DynColor™ 300-BL RGB DMX Controllers

USER GUIDE

Part Number HCD-00300-000000-BL



NOTE:

This user guide is to explain the steps necessary to use the specified and assure peak performance. Its intended use is for reference only, by a fully qualified electrician or technician. This document should never be considered a substitute for any provision of a regulation or state and/or local code.

Please read this entire manual to fully understand and safely use this product.

Specifications are subject to change without notice. Please visit www.atgelectronics.com for most recent user guide versions.

GETTING STARTED

ATG Electronics® DynColor™ 300 Series RGB DMX Controllers are designed specially for manage most RGB LED products of ATG Electronics.

DynColor™ 300-BL (Part Number: HCD-00300-000000-BL) is compatible with UniQ™ A144T and A72T RGB Border Lights.

Based on high performance microprocessor technology, supporting standard DMX512 protocol, it is available for cross-platform operation on DMX console or DMX simulation software (our DMX Controllers support most DMX consoles and DMX simulation software, A TEST-OPERATION IS HIGHLY RECOMMENDED.) With this enhanced tool, you can manage and design color changing patterns and changing speeds from across platforms.

With over 30 preprogrammed color changing patterns, including gradual changing, screening and jumping. As a powerful color managing controller, it will enable you to choose the desired pattern and according speed to manage the RGB lighting fixtures.

The LCD monitor on the controller offers an easy and visible managing method; the mounting bracket will enable the operator to easily fix the controller onto any place.

This guide contains important information about installing and operating your new DynColor™ 300-BL safely and accurately.

Included in this Box

DynColor™ 300-BL RGB DMX Controller, 1 PCs

User Guide, 1 Set

Power Adaptor, 1 Set

ATG
Electronics Corp.

Light your world
Color your life!

Warnings

- 1) Risk of electric shock. Ensure that the power supply is off when wiring or soldering the sections of the device.
- 2) The device shall be installed and operated by a qualified electrician or technician in accordance relevant local codes.

Precautions

- 1) Please avoid installing the device in lightning, intense magnetic and high-voltage fields.
- 2) The device should be installed indoors. Otherwise, please arrange rain shielding.
- 3) Make sure the wires are connected correctly and avoid short cut and burnt out the fuse.

User Responsibilities

The responsibility of complying with all state and local laws, ordinances, and regulations in regards to the installation, maintenance, and operation of the device lies with the buyer and handler of the device. These parties may include, but are not limited to the contractor, installer, purchaser, owner, and user of the product.

Note:

The instructions and precautions set forth in this user guide are not necessarily all-inclusive, all conceivable, or relevant to all applications as ATG Electronics cannot anticipate all conceivable or unique situations.

PLANNING THE INSTALLATION

This device installation requires planning to ensure timely, successful installation with minimal complications and down time.

Planning Suggestions

Consult an Electrical Inspector to review all wiring plans.

Create a Layout Plan drawing, per a Lighting Designer's or Architect's recommendation.

Consult ATG Electronics Application Engineering Services as needed.

Installation Considerations

When creating your installation plan, consider the following:

- 1) Location of the controller

ATG Electronics recommends that the controller is placed in dry environment.

- 2) Selection of soldering tools

Ensure that the tool selected is appropriate for the soldering surface.

- 3) Maximum distance between the controller and the first LED Border Light

30 m (98 feet)

- 4) Maximum series-wound quantity

UniQ™ A144T (120VAC input), 100 pcs;

UniQ™ A144T (240VAC input), 200 pcs;

UniQ™ A72T (120VAC input), 200 pcs;

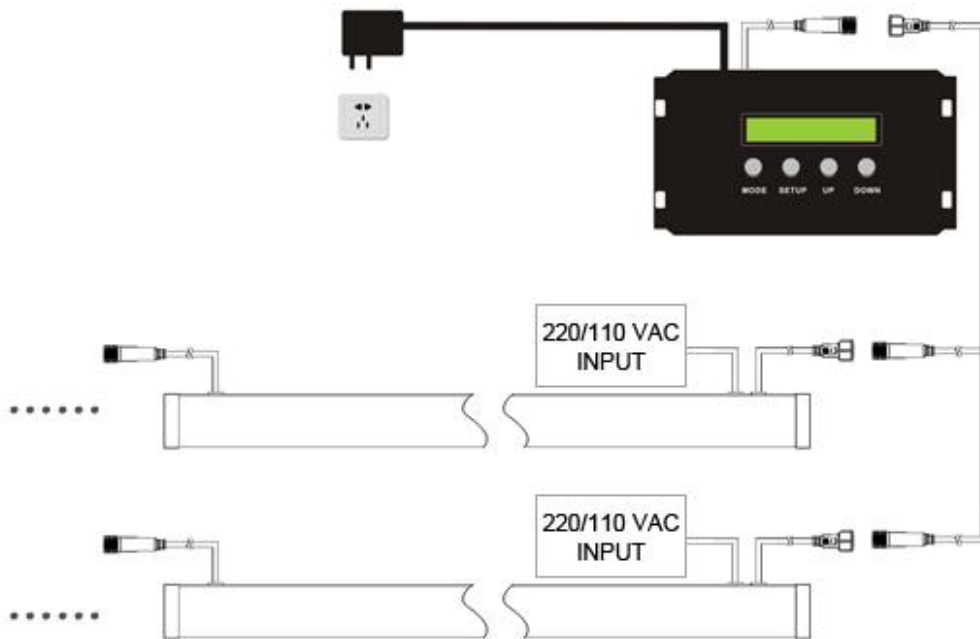
UniQ™ A72T (240VAC input), 400 pcs.

5) Maximum Driving Quantity
4,000 pcs.

Installation Steps

- 1) Make sure the switch is keeping off before wiring or installation.
- 2) Connect the first border light to the controller via the data wire (4-pin connector).
- 3) Plug the power adaptor into the controller, and plug it into the power outlet.
- 4) Plug the power connector of the first border light into the power outlet.
- 5) Switch on the controller, choose the desired color pattern, and set changing speed etc.

Wiring Diagram:



Function Introduction

1) Physical Specifications

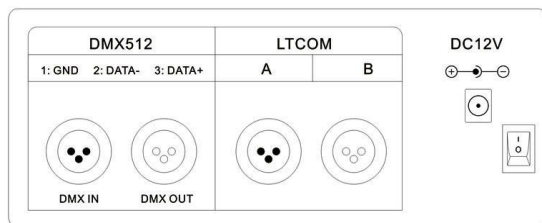
Dimension: L190 x W120 x H50 mm

Weight: 830g

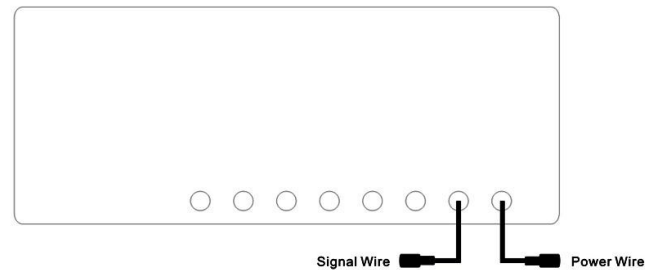
Working Environment: dry environment

Buttons: MODE, SETUP, UP & DOWN

Data Interfaces: DMX512



Front View



Back View

2) Electrical Specifications

Input Voltage: 12VDC

Operation Temperature: -10°C~50°C (14°F~122°F)

3) Function of Buttons

MODE: Select the preferred pre-programmed color pattern.

SETUP: Set the parameters of selected color pattern.

UP: Increase the parameter step by step

DOWN: Decrease the parameter step by step

4) Button "MODE" Introduction

Serial NO.	Displayed Content	Description
1	BLACK	Static Black
2	STATIC RED	Static Red
3	STATIC GREEN	Static Green
4	STATIC BLUE	Static Blue
5	STATIC YELLOW	Static Yellow
6	STATIC PURPLE	Static Purple
7	STATIC CYAN	Static Cyan
8	STATIC WHITE	Static White
9	COLOR CHANGE	7 Color Changing
10	FLOW CHASE	7 Color Flowing
11	COLOR CHASE	7 Color Chasing
12	CORUSCATE RUN	7 Color Scroll Flickering
13	FAST FLOW1	7 Color Fast Rolling 1
14	FAST FLOW2	7 Color Fast Rolling 2
15	ROLL CHASE	7 Color Roll Chasing
16	ROLL COLOR	Roll Color
17	MULCOLOR1	Multi Color 1
18	MULCOLOR2	Multi Color 2
19	MULCOLOR3	Multi Color 3
20	STROBE FLOW	7 Color Strobe Flowing
21	R&G FLOW	R & G Flowing
22	G&B FLOW	G & B Flowing
23	R&B FLOW	R & B Flowing
24	R&G CHASE	R & G Chasing
25	R&B CHASE	R & B Chasing
26	Y&P CHASE	Y & P Chasing
27	SMOOTH CHG1	7 Color Smooth Changing 1
28	SMOOTH CHG2	7 Color Smooth Changing 2
29	RAINBOW CHASE	7 Color Chasing
30	AUTO PROGRAME	Automatically Run Selected Process
31	DMX512 MODE	DMX512 Control Mode

5) Button "SETUP" Introduction

MODE 1-8 is static color without setup function.

Serial NO.	Displayed Content	Instruction	Description
1	INTERVAL	0 to 100	Interval between 2 patterns
2	RUN SPEED	0 to 100	Run speed
3	FLASH	0 to 100	Flash frequency
4	LOAD DEFAULT	YES or NO	Load default parameters
5	AUTO SELECT	YES or NO	If you want this pattern appeared in AUTO PROGRAMME, select YES, otherwise NOT
6	TUBE QTY	0-4000	Select the actual tube quantity you have

6) How to set the DMX controller under DMX512 mode?

Under DMX512 mode, the DMX controller occupies 4 channels/addresses.

The first channel/address is for mode selection; the second channel/address is for speed selection and also the red color percentage control; the third channel/address is for green color percentage control and the fourth channel/address is for blue color percentage control.

Please follow the below steps to set up your DMX controller:

- ① Set DMX controller to DMX512 MODE;
- ② Set DMX channel/address for the DMX controller: if the DMX channel/address is set to 13, the controller will occupy channel/address 13, 14, 15 & 16; if the DMX channel/address is set to 128, the controller will occupy channel/address 128, 129, 130 & 131;
- ③ Manage the first channel/address on the DMX console, like 13 or 128, to select the preferred pattern to use;
- ④ Manage the second channel/address on the DMX console, like 14 or 129, to set the changing speed and red color percentage;
- ⑤ Manage the third channel/address on the DMX console, like 15 or 130, to set the green color percentage;
- ⑥ Manage the fourth channel/address on the DMX console, like 16 or 131, to set the blue color percentage.

QUALITY WARRANTY

This product is sold pursuant to ATG Electronics Standard Terms and Conditions which can be found at www.atgelectronics.com/warranty and which contain important provisions, including, among others, the Quality Warranty, exclusions and limitations on ATG Electronics liability for damages, and restrictions on available remedial actions.

For any after-sales assistance, please contact our Customer Service Team at service@atgelectronics.com. All your concerns and requests will be handled within 12 hours.

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