ABICUS DMX Gateway

A1G10-DMX / A1G20-DMX

SAFETY INSTRUCTION

- **IMPORTANT:** NEVER attempt any work without shutting off the electricity.
- Read all instructions before installing.
- System is intended for installation by a qualified technician in accordance with the National Electrical Code and local regulations.

CAUTION:

All parts must be used as indicated in these instructions. Do not substitute any parts, leave parts out, or use any parts that are worn out or broken.

AVERTISSEMENT

IMPORTANT: Coupez l'électricité avant TOUTE manipulation.

- Lisez toutes les instructions avant d'installer.
- Système est destiné à être installé par un techniciene qualifié en conformité avec le code national de l'électricité et les règlements locaux.

MISE EN GARDE:

Toutes les pièces doivent être utilisées tel qu'il est indiqué dans ces instructions. Ne remplacez pas les pièces, n'en laissez pas de côté et ne les utilisez pas si elles sont usées ou brisées.

THIS INSTRUCTION APPLIES TO THE MODEL(S) BELOW



A1G10-DMX

A1G20-DMX





waclighting.com Phone (800) 526.2588 (800) 526.2585 Fax

Headquarters, East Manufacturing Facility 44 Harbor Park Drive Port Washington, NY 11050

South East Manufacturing Facility 1600 Distribution Ct Lithia Springs, GA 30122

Central Manufacturing Facility 1700 South J Elmer Freeway, Ste 100 Cedar Hill, TX 75104

West Manufacturing Facility 1750 S Archibald Ave Ontario, CA 91761

1

ACCESSORIES (INCLUDED IN BOX)

SPiRE



Power Supply (Not included with A1G20-DMX)

RJ45 120 Ohm Terminator

120 Ohm Resistor

STEP 1: MECHANICAL INSTALLATION AND WIRING

"Top-Hat" DIN module & IEC/EN 60715 35mm Rail (See FIG. 1) ADD: "Place & Click" - Recess Top back of module within DIN channel, rotating downward and toward lower DIN to secure, **REMOVE:** Pull down bottom orange tag gently with a flathead screw driver, rotate outward and upward from the bottom of the module.

Power & Ethernet Connections (See FIG. 2) top of Unit Connect the ABiCUS to the DC Power Source via the two PIN Phoenix connector, A1G20 also has POE (Type 1/Class 0) capability. Connect the ABiCUS LAN (silver port marked 10/100 Ethernet) to a network switch using a standard Cat5e (or higher) patch cord. NB: Distance between ABiCUS and switch should not exceed 300' or 100m.

DMX Communications Connections (See FIG. 3) bottom of unit port 2 is used for data connection to the first DMX lighting fixture Follow DMX Design rules for subsequently connected fixtures (Daisy Chain up to 32no. Fixtures)

NOTE:

7

Specific PIN OUT detail for the DMX RJ45 Plug T-568B PIN 1, 2 & 7 PIN 1 = DMX (+) PIN 2 = DMX (-)PIN 7 = DMX (GND)



ABICUS DMX Gateway

A1G10-DMX / A1G20-DMX













STEP 2. ADDING ABICUS TO THE IT NETWORK

Note: confirm ABiCUS is connected to the ethernet network Discovering ABiCUS using a MS Windows PC (See FIG. 4) Open Windows File Explorer Click "Network" at the bottom Connected ABiCUS will appear with the symbol



Alternatively refer to the project router or network client list to determine an ABiCUS IP.

Address will be assigned by the networks router via the DHCP table. This is the recommended network configuration.

For additional guidance including using MacOS devices contact the factory.

Double click the icon and open ABiCUS Webpage (See FIG. 5). Hover over the three line menu header and click Settings. Within the Ethernet TAB It is possible to define a STATIC IP. For support including designated port allocation contact the project network administrator.

STEP 3. UPDATING FIRMWARE

The Home Screen allows for Firmware Updates.

Good Practice: ABiCUS has file sharing capabilities, always Export (1) and save the latest configuration prior to firmware updates. See FIG.6 (b). Click DMX tab, Export and save.

Click ABiCUS TAB FIG.6 (a) FIRMWARE should always be set to "USER" (2). Click on the UP arrow to the right of VERSION FW for the latest version. Click "Check Web" then "Web Update" If there is a later version it will be downloaded, "written to flash" and will reboot to the Home Screen automatically

If web update takes longer than two minutes, then check Internet connectivity. There is a factory RESET available that returns ABiCUS to default settings. Click the "Factory" (3) button to initiate. Be aware, all configured data will be lost during factory reset.

STEP 4. ADDING FIXTURES

Select the DMX Tab.

Start adding fixtures within the DMX directory. See FIG.7 (a) Click the "+" symbol and add fixture types.

Create meaningful location names by editing "ALIAS" description The example here shows Master Vanity.

ZONE, GROUP, NODE Address (2.1.1) will automaticaly populate. The Z,G,N address is a tag used to identify fixtures within the Integration Platform.

STEP 5. SELECTING PROFILES

AiSPiRE and WAC DMX fixtures have a unique profile (4). See FIG.7 (b) Click the Down arrow to the right of PROFILE and select the fixture associated with the ALIAS created. ABiCUS will automatically define base DMX channel, it's footprint, dynamic range and Presets. Ensure the configured Base DMX address matches the Fixture Base DMX address. (6) FIG.8 (a) In this example we're adding an Aurora 1780 PROFILE (5). ABICUS has Custom & NONE Profile selections for generic DMX fixtures.

waclighting.com Phone (800) 526.2588 Fax (800) 526.2585

Headquarters, East Manufacturing Facility 44 Harbor Park Drive Port Washington, NY 11050

South East Manufacturing Facility 1600 Distribution Ct Lithia Springs, GA 30122

Central Manufacturing Facility 1700 South J Elmer Freeway, Ste 100 Cedar Hill, TX 75104

West Manufacturing Facility 1750 S Archibald Ave Ontario, CA 91761

ABICUS DMX Gateway

b.

WAC

ABICUS

Fixtures

a Auro

Aurora

AUTO

b.

WAC

ABICUS

Fixtures

Atmosphere 2L 1840

DMX

+

Aurora 1780

(6)

Settings Presets

Properties

HANNELS ASE DMX CH SSIGN CH 1 (50) SSIGN CH 2 (51) SSIGN CH 3 (52) 4 50 VALU CCT SAT

SIGN CH 4 (53) HUE

ALIAS

ADDRESS PROFILE

DMX

Aurora

+

Lutron

Preset 4

Preset 5

Preset 6

Preset 0 Preset 10 Preset 11 Preset 12 Preset 13

Preset 14

Preset 15

Preset 16 Preset 17

Preset 17 Preset 18 Preset 19

Lutron

Settings Presets

Presets

Preset 2 Preset 3 Preset 4 Preset 5 Preset 6

Preset 3

Preset 8

Preset 9

Preset 11

Atmosphere RPS 1840

800.240 2000 240 2000.240 2200.240 2400.240 2700.240

3000.240

3500.240

4000.240

EMPTY EMPTY EMPTY

Settings Presets Presets (7)

Aurora

1700.240 1800.240 2000.240

2200.240

2400.240

2700.240

3000.240

3000.240 3500.240 4000.240 5000.240 5500.240 6500.240 8000.240

0.240.240.0

80.240.240.0

80.240.240.0 160.240.240.0 40.240.240.0 122.240.240.0 198.240.240.0

RED

BLUE AMBER

CYAN MAGENTA

YELLOW

A1G10-DMX / A1G20-DMX

FIG.8

a.

WAC

Fixtures

â Aur

FIG.9

a.

с.

WAC

ABICUS

Fixtures

Aurora 1780
Atmosphere 2L 18
Atmosphere 2L 2

DMX

+

Lutron

Settings Presets

AUTO

VALUE CCI

Properties

ALIAS

ALIAS ADDRESS PROFILE NOTIFY

CHANNELS BASE DMX CH ASSIGN CH 1 (30) ASSIGN CH 2 (31)

DISSOLVE : DISSOLVE :

WAC

ABICUS

Fixtures

Aurora 1780

DMX

+

Lutron

Settings Presets

Atm

AUTO

VALUE CCT

d.

WAC

ABICUS

Fixtures

Atmosphere 2L 2765

DMX

+

Lutron

Preset

Preset 3

Preset 4

Preset 5

Preset Preset 7

Preset 10 Preset 11

Settings Presets Presets

Atmosphere 2L 2765

2700.240 3000.240

3500.240

4000.240

5000.240 5500.240

6500.240

EMPTY EMPTY EMPTY EMPTY

Properties

ASSIGN CH 2 (21)

DISSOLVE 1 DISSOLVE 2

ALIAS

ADDRES PROFILE

NOTIFY

ABICUS DMX Lutron

+





Profile Details

Aurora 1780

Within the Presets (7) TAB, a set of CCT values and colors have be assigned based on the fixture profile. See FIG.8 (b).

To edit a Preset highlight the value and simply overtype a new value.

NOTE: Color preset are defined by their values Example: Preset 14 0.240.240.0 = RED Footprint creation.

These are provided as a baseline only and not representative of Industry standard colors.

Atmosphere2Line 1840

(Atmosphere 2.5" Line Voltage 1800K - 4000K) Similarly for

Atmosphere4Line 1840

(Atmosphere 4.5" Line Voltage 1800K - 4000K)

FIG.9 (a) details the DMX footprint for Atmosphere 2.5" & 4.5" Line Voltage 1800K - 4000K.

FIG.9 (b) details the associated Preset CCT values. To edit a Preset highlight the value and simply overtype a new value.

Atmosphere2Line 2765

(Atmosphere 2.5" Line Voltage 1800K - 4000K) Similarly for Atmosphere4Line 2765 (Atmosphere 4.5" Line Voltage 1800K - 4000K)

FIG.9 (c) details the DMX footprint for Atmosphere 2.5" & 4.5" Line Voltage 2700K-6500K.

FIG.9 (d) details the associated Preset CCT values. To edit a Preset highlight the value and simply overtype a new value.

waclighting.com Phone (800) 526.2588 Fax (800) 526.2585

Headquarters, East Manufacturing Facility 44 Harbor Park Drive Port Washington, NY 11050

South East Manufacturing Facility 1600 Distribution Ct Lithia Springs, GA 30122

Central Manufacturing Facility 1700 South J Elmer Freeway, Ste 100 Cedar Hill, TX 75104

West Manufacturing Facility 1750 S Archibald Ave Ontario, CA 91761

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. MAY 2024

ABICUS DMX Gateway

A1G10-DMX / A1G20-DMX







FIG. 11. b. WAC ABiCUS DMX Lutron Fixtures a. + WAC Settings Presets Preset Linear WWW 1850 ABICUS DMX Lutron 1800.240 2000.240 2200.240 2400.240 2700.240 Fixtures + Preset 4 Preset 5 ۵ ۵ Aurora 1780 Atmosphere 2L 18 Atmosphere 2L 27 Atmosphere RPS : Settings Presets Preset 6 3000.240 Linear WWW 1850 Preset : 3500.240 Properties Preset 8 Preset 9 4000.240 Atmosphere RPS UID 5000.240 ALIAS ADDRESS PROFILE NOTIFY Linear WWW 1850 Preset 10 Preset 11 EMPTY 2.6.1 Linear WWW 1850 AUTO × CHANNELS BASE DMX CH ASSIGN CH 1 (60) ASSIGN CH 2 (61) WARM ASSIGN CH 3 (62) ASSIGN CH 4 (63) COOL FULL

Atmosphere RPS 1840

See **FIG.10** (a). details the DMX footprint for Atmosphere RPS Low Voltage 1800K - 4000K.

FIG.10 (b). details the associated Preset CCT values To edit a Preset highlight the value and simply overtype a new value.

Atmosphere RPS 2765

FIG.10 (c) details the DMX footprint for Atmosphere RPS Low Voltage 2700K-6500K.

FIG.10 (d) details the associated Preset CCT. To edit a Preset highlight the value and simply overtype a new value.

Linear WWW 1850 also applies to DPI WWW 1850

FIG.11 (a) details the DMX footprint for Linear WWW 1800K - 5000K and DPI WWW 1800K - 5000K.

FIG.11 (b) details the associated Preset CCT values. To edit a Preset highlight the value and simply overtype a new value.

waclighting.com Phone (800) 526.2588 Fax (800) 526.2585

Headquarters, East Manufacturing Facility 44 Harbor Park Drive Port Washington, NY 11050 South East Manufacturing Facility 1600 Distribution Ct Lithia Springs, GA 30122 Central Manufacturing Facility 1700 South J Elmer Freeway, Ste 100 Cedar Hill, TX 75104 West Manufacturing Facility 1750 S Archibald Ave Ontario, CA 91761

ABICUS DMX Gateway

b.

Settings Presets

Properties

ALIAS

ADDRESS

PROFILE

NOTIFY

WAC

ABICUS

Fixtures

Linear RGBWW2750

Linear R

2.7.1

Linear AUTO

DMX

+

Lutron

eset 4

eset 5

eset 6

set

Settings Presets Preset

Linear RGBWW2750

RED GREEN

BLUE YELLOW

MAGENTA

CYAN

2700.240 3000.240 3500.240

4000.240

5000.240

240.0.0.0 0.240.0.0

0.240.0.0 0.0.240.0 182.42.0.0 0.240.23.0 240.0.96.0

A1G10-DMX / A1G20-DMX

DMX Lutron

+

FIG. 12.

a.

WAC

ABICUS

Fixtures

a Aurora 1780

Aurora 1780
Atmosphere 2L 18
Atmosphere 2L 27
Atmosphere RPS :
Atmosphere RPS :
Atmosphere RPS :
Linear WWW 1850
Linear RGBWW2





Linear RGBWW 2750 also applies to DPI WWW 2750

FIG.12 (a) details the DMX footprint for Linear RGBWW 2700K - 5000K and DPI WWW 1800K - 5000K.

FIG.12 (b) details the associated Preset CCT and Color values. To edit a Preset highlight the value and simply overtype a new value

NOTE: Color preset are defined by their values. Preset 6 240.0.0.0 = RED Footprint creation. These are provided as a baseline only and not representative of industry standard colors.

VENTRIX MONO – INTENSITY

FIG. 13 details the single channel footprint for VENTRIX Elements are available in fixed 2700K, 3000K, 3500K & 4000K CCTs.





WAC - COLORSCAPING

Fig.14 (a) details the DMX footprint for ColorScaping Landscape lighting RGBW – RED, GREEN, BLUE plus 2700 - 6500 CCT.

FIG14 (b) details the associated Preset CCT and color values to edit Preset highlight the value and simply overtype a new Value.

NOTE: Color presets are defined by their numeric value Preset 6 240.0.0.0 RED footprint creation. These are provided as a baseline only and not representative of industry standard colors.

waclighting.com Phone (800) 526.2588 Fax (800) 526.2585

Headquarters, East Manufacturing Facility 44 Harbor Park Drive Port Washington, NY 11050

South East Manufacturing Facility 1600 Distribution Ct Lithia Springs, GA 30122

Central Manufacturing Facility 1700 South J Elmer Freeway, Ste 100 Cedar Hill, TX 75104

West Manufacturing Facility 1750 S Archibald Ave Ontario, CA 91761

ABICUS DMX Gateway

A1G10-DMX / A1G20-DMX





STEP 6. TROUBLESHOOTING

Before moving to platform integration confirm channel functionality for each fixture. (See **FIG. 15**)

Click Log OFF (8) on the DMX home page.

Launch **Troubleshoot** (9) from the three line menu bar.

Individual channel control is available for each fixture.

Simply drag the slider right / left to raise / lower the channel value.

FIG. 15			
WAC			
ABICUS DMX Lutron			Logoff
			_
ARICI	IC		Settings
			About
5 Alpin		X reline	Troubleshoot
DMX Bus	Activity	3	
4 ALL	0.0	6	
↑ CH 2	69.4	\uparrow	
FADE CH 3	20.8	HUE	

waclighting.comHeadquarterPhone (800) 526.258844 Harbor ParFax(800) 526.2585Port Washingt

Headquarters, East Manufacturing Facility 44 Harbor Park Drive Port Washington, NY 11050

South East Manufacturing Facility 1600 Distribution Ct Lithia Springs, GA 30122

Central Manufacturing Facility 1700 South J Elmer Freeway, Ste 100 Cedar Hill, TX 75104 West Manufacturing Facility 1750 S Archibald Ave Ontario, CA 91761