# Automated Wash Luminaire Quick Reference Card

### **Power Requirements**

The following items must be used to provide power to Studio Color: • 12 AWG stranded THHN or equivalent if hard wired

- · Branch Circuit Protection (circuit breaker)
- · 20 A, high-surge thermal breaker (GE THQB, THQL, or equivalent)

	575-8	575-M	
Voltage	Number of Fixtures per 20 A Breaker		
110	3	n/a	
208	5	3	
230	6	4	

Note: do not use magnetic type circuit breakers.

## Electrical Specifications

5/5-5	
Rated voltage:	100-230 V.A.C.1
Rated frequency:	50/60 Hz
Rated current:	7.0 A @100 V/60 Hz,
	3.0 A @230 V/50 Hz
Rated power:	700 W max
575-M	
Rated voltage:	208/230 V.A.C.1
Rated frequency:	50/60 Hz
Rated current:	3.2 A @208 V/60 Hz,
	3.0 A @230 V/50 Hz
Rated power:	700 W max
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<sup>1</sup>Note: fixtures can operate with international 200, 240 and 250 V.A.C. supplies. 575-M fixtures must be re-tapped for some voltages. To relap 575-M fixtures, contact High End Systems Service.

#### Communication

Protocol:	USITT DMX-512
Maximum load:	32 fixtures per DMX link
Required channels:	16
Termination:	120 ohm

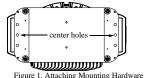
### **Truss Mounting**

To mount the fixture on a truss, you will need the following equipment: · (2) Safety cables

- · (2) Cheeseborough clamps (recommended) or other mounting hardware
- Complete the following procedure to mount the fixture to a truss:

1.Lay the fixture on its side and attach the mounting hardware to the

center holes on the base. Refer to Figure 1.



2.Install the fixture on the truss.

3.Loop the safety cables through an outer hole on the base of the unit, around the handle, and out the other outer hole. Refer to Figure 2.



#### Setting the Starting Channel by DMX Channel or Fixture Number

- 1.Hold <MENU> until the display changes to A d d R .
- 2.Using the up and down buttons, scroll down to the SET field and press <ENTER>.
- 3. Using the up and down buttons, scroll down to the C H N L field and press <ENTER>.
- 4. Using the up and down buttons, select either A d d R (fixture number) or d M X (DMX channel) and press <ENTER>.

#### Setting the Fixture's Starting Channel

1.Hold <MENU> until the display changes to A d d R. Press <ENTER> to edit the address field.

2.Using the up and down buttons, set a starting channel. The display will flash when the value is different from the stored value.

3.Press <ENTER> to store the appropriate channel. The display will stop flashing.

Note: if <ENTER> is not pressed, the unit will not store the channel.

### Setting Display Output

- 1.Hold <MENU> until the display changes to A d d R
- 2.Using the up and down buttons, scroll down to the SET field and press <ENTER>.
- 3. Using the up and down buttons, scroll down to the d S P L field and press <ENTER>.
- 4. Using the up and down buttons, select either ON, OFF, or d I M and press <ENTER>.

#### **Cross-Loading Fixtures**

- 1.Disconnect the data cable between controller and the first fixture.
- 2.Hold  $\langle MENU \rangle$  until the display changes to A d d R
- 3.Using the up and down buttons, scroll down to the MOdE field and press <ENTER>.
- 4. Ûsing the up and down buttons, scroll down to the X L d field and press <ENTER>. The fixture will cross-load its software version to all connected fixtures on the link.

#### Viewing Lamp Hours+

- 1.Hold <MENU> until the display changes to A d d R
- 2.Using the up and down buttons, scroll down to the 1 N F O field and press <ENTER>. The display will indicate L / H R.

3.Press <ENTER> to enter the field and display the lamp hours.

### Resetting Lamp Hourst

- 1.Hold <MENU> until the display changes to A d d R . 2.Using the up and down buttons, scroll down to the 1 N F O field and press <ENTER>.
- 3.Using the up and down buttons, scroll down to the L / R S field and hold down <ENTER> until the lamp hours reset to 0 0 0 0. Note: resetting lamp hours automatically resets lamp strikes.

#### Viewing Fixture Hours

- 1.Hold <MENU> until the display changes to A d d R . 2.Using the up and down buttons, scroll down to the I N F O field and press <ENTER>.
- 3.Using the up and down buttons, scroll down to the F / H R field and press <ENTER>. The fixture will display the fixture hours.

#### **Resetting Fixture Hours**

1.Hold <MENU> until the display changes to A d d R 2.Using the up and down buttons, scroll down to the 1 N F O field and press <ENTER>.

3.Using the up and down buttons, scroll down to the F / R S field and hold down <ENTER> until the fixture hours reset to 0 0 0 0.

#### Performing Self Tests

1.Hold <MENU> until the display changes to A d d R 2.Using the up and down buttons, scroll down to the TEST field and

press <ENTER>.

3. Using the up and down buttons, scroll to the desired test and press <ENTER>. The fixture will perform the desired test. 4.To exit the test in progress, press <MENU>.

#### Viewing DMX Data By Channel Number

1.Hold <MENU> until the display changes to A d d R

2.Using the up and down buttons, scroll down to the I N F O field and press the <ENTER>.

- 3.Using the up and down buttons, scroll down to the d M X field and press <ENTER>.
- 4. Using the up and down buttons, scroll down to the d A T A field and press <ENTER>.
- 5. Using the up and down buttons, scroll to the desired channel and press <ENTER> to view the DMX value.

## Inverting or Swapping Pan and Tilt 1.Hold <MENU> until the display changes to A d d R

- 2.Using the up and down buttons, scroll down to the SET field and press <ENTER>.
- 3. Using the up and down buttons, scroll to P / I N (pan invert), T / I N (tilt invert), or S W A P (swap pan and tilt) and press

<ENTER>,

#### †Available only on the 575-S.

P/N 60600082 Rev. C

**DMX Control** Studio Color may be controlled by either by 8- or 16-bit DMX controllers. Use the following table to control Studio Color functions.

#### DMX Control

Chan.	Function	Notes	DMX	Fader %
1	Pan MSB	coarse positioning, 8 bit;8-bit controllers use only high byte	0-255	0-100%
2	Pan LSB	fine positioning	0-255	0-100%
3	Tilt MSB	coarse positioning, 8 bit;8-bit controllers use only high byte	0-255	0-100%
4	Tilt LSB	fine positioning	0-255	0-100%
5	Color func- tions	default- color wheel continuous F1- allows the color mixing wheels to make two complete rotations F2- locks all motors to MSpeed F3- forw. color spins/ color mix sequences F4- revs. color spins/ color mix random F5- color wheel color lock and quick path default F3 F4 F5 F1 F1 and F3 F1 and F4 F2 and F5 F1 and F5 F2 and F5 F1 and F5 F1 and F4 F5 and F5 F1 and F4 F5, and F4 F1, F2, and F4 F1, F2, and F4 F1, F2, and F4 F1, F2, and F4	0 16 32 48 64 80 96 112 128 144 160 176 192 208 224 240	0% 8% 14% 20% 26% 33% 45% 51% 58% 64% 70% 76% 83% 89% 95%

#### DMX Control

Chan.	Function	Notes	DMX	Fader %
6	Color wheel	default- continuously variable pos 0 - open pos 1 - CTO pos 2 - pink pos 3 - magenta pos 4 - red pos 5 - aqua	0 & 255 44 86 128 170 213	0 & 100% 17% 34% 50% 66% 83%
		F3- variable forward spin/color sequences spin stop spin forward slowest spin forward fastest color seq. slowest color seq. fastest	0-3 4 127 128 255	0-1% 2% 48% 50% 100%
		F4- variable reverse spin/color random spin stop spin reverse slowest spin reverse fastest color random slowest color random fastest	0-3 4 127 128 255	0-1% 2% 48% 50% 100%
		F5- color lock and quickest path pos 0 - open pos 1 - CTO pos 2 - pink pos 3 - magenta pos 4 - red pos 5 - aqua	0-43 44-85 86-127 128-169 170-212 213-255	0-17% 18-33% 34-50% 51-66% 67-83% 84-100%
7	Cyan mix	<i>red subtractive</i> cyan in cyan out	0 255	0% 100%
8	Magenta mix	green subtractive magenta in magenta out	0 255	0% 100%
9	Yellow mix	blue subtractive yellow in yellow out	0 255	0% 100%

Chan.	Function	Notes	DMX	Fader %
10	Lens wheel	Full rotation, continu- ously variable		
		open wide angle filter narrow horizontal shap- ing center axis	0 & 255 64 128	0 & 100% 25% 50%
		wide vertical shaping center axis	192	75%
11	Frost wheel	full rotation, continu- ously variable		
		open frost narrow vertical shaping center axis wide horizontal shap-	0 & 255 64 128	0 & 100% 25% 50%
		ing center axis	192	75%
12	Shutter	closed strobe slow strobe fast random strobe-low sat- uration random strobe-high sat- uration open	0-7 8 127 128 247 248-255	0-2% 3% 49% 50% 96% 97-100%
13	Dim	closed open	0 255	0% 100%
14	MSpeed	movement speed controller cross-fade slowest fastest	0-3 4 255	0-1% 2% 100%
15	Control <sup>1</sup>	safe home shutdown <sup>2</sup>	0 64 128	0% 25% 50%
16	Checksum	set to default value (00)	00	0%

<sup>1</sup>Note: the shutter must be closed and the value sent for 0.5 seconds <sup>2</sup>Note: available only on the 575-S.