

express yourself through light



User Guide Based of FW 103.18



Lights On



Overview

"Lights On" is what you will see when the room is off and when pressed will activate the first lighting scene.

- 1. This screen is displayed when the room lighting is OFF, and the screen IR proximity sensor has been activated
- If the LIGHTS ON screen is not pressed, it will dim and then go dark after a set period of time. This timeout can be adjusted within the MENU>SCREEN setup
- 3. The **FRESCO** logo page will display when the screen goes into time out.
- 4. The LIGHTS OUT and/or the FRESCO logo screen settings can be set to "not display" if desired. This change is made within the MENU>SCREEN setup







Home Screen



Overview

Turn room lighting on/off, activate scenes, master raise/lower lighting level, access to lighting zones, menu access for system setup, and current date/time

- 1. Controller name is unique and modified within **MENU** settings
- Scrollable scene bar displays up to 6 programmable scenes per page. Up to 36 scenes can be created per fresco station
- 3. Master control room on/off state, raise/lower current scene, and access additional lighting zones **ADJUST**
- 4. MENU accesses system setup
- 5. Date/Time displayed and setup within **MENU**

Lighting Controller							
Lights On							
7							
	-`• ALL ON Q ALL OFF	RAISE	†‡† Adjust				
≣ menu				06:32PM Tue 14			



Lighting Channels



Overview

Control up to 36 individual zones of lighting using the sliders or rocker switch. Adjustments such as intensity, color and color temperature are also controllable here

- Channels control individual areas of lighting. These can control zones or multiple zones (Groups) of lighting. Groups can be created within the system menu setup. The channel names can be personalized within the system setup settings
- 2. The icon (Attribute Control) below the channel intensity slider indicates additional control of DMX lighting such as color and color temperature
- 3. EDIT SCENES accesses scene setup and configuration. Once created scenes are displayed/accessed from the home screen





DMX RGB Control



Overview

Control color intensity, hue, and saturation for DMX controlled RGB fixtures

- 1. Raise or lower overall intensity for the lighting zone
- 2. RGB values are displayed as colors change. Input specific values be pressing any of the RGB value fields
- 3. Change overall color (hue) by pressing anyway in the color field
- 4. Change color saturation by touching anywhere in the large color box

		2.1 N II
Color Cove 69%	CURRENT	
	NEW	
	R 255	
	G O	
	В 255	

DMX Tunable White Control

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Overview

Control intensity, color temperature and hue for DMX controlled tunable white fixtures

- 1. Raise or lower overall intensity for the lighting zone
- 2. Adjust color temperature by sliding the handle (range is specific to fixture)
- 3. Adjust hue for added effect (only applicable to supported fixtures)

Downlights				
100%	CURRENT		COLOR TEMPERATU	RE
	2700K			
	3500K	2700K		4100
	NEW			
	CURRENT	_	DELTA UV	
	-0.050			
	0.000	-0.05	0	+0.0
	NEW			
			ОК	CANCEL

Scene Creation



Overview

Each fresco station supports up to 36 lighting scenes. Scenes can made up of multiple lighting channels,



1.	Adjust	individual	channel	intensity	levels
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- If available adjust color and/or color temperature setting using by pressing the attribute icon
- 3. After making adjustments press EDIT SCENES

Lights On	2		

1. Assign new look to one of 36 new scenes or overwrite existing scene



Scene Creation (continued)



Overview

Each fresco station supports up to 36 lighting scenes. Scenes can made up of multiple lighting channels,

Scene Properties	
Scene Name:	Scene 2
Fade Time:	3 secs
Included Channels	7 of 7
	FINISH CANCEL
	04, 101791110 C

-	Channe	els included in scene: Scene 2	7 of 7 🗧
	Included	Name	Current Status
	e	Channel 1	100%
	0	Channel 2	100%
	e	Channel 3	100% OK 0.000UV
	e	Channel 4	100% OK 0.000UV
	e	Channel 5	100%
	2	Channel 6	100%
	0	Channel 7	100% OK 0.000UV
	ALL		CLOSE

- 1. Create a new SCENE NAME
- 2. Set the transition time of the scene with **FADE TIME**
- Select INCLUDED CHANNELS that allow specific lighting channels to be included/excluded within the scene

- 1. Choose which lighting channels will be included within the new scene
- 2. When finished press CLOSE



Home Screen Menu



Overview

Menu provides access to system settings. Setup user profiles and access control, system configuration, and hardware setup

USERS establishes the profiles used for secured system access

SCHEDULING is currently not implemented in this firmware version

SETUP accesses system configuration settings

DIAGNOSTIC displays system technical data

 $\ensuremath{\text{LOG IN}}$ to access system controls as setup within USERS

	Lighting Controller		
Lights On			
USERS			
scheduling		† 1+	/
SETUP			
DIAGNOSTIC	L OFF LOWER	ADJO21	
LOG IN			
			06:32PM Tue 14



Menu>Users



Overview

User profiles can be setup to establish secured access to system controls

- 1. LOG IN to access system control and setup
- 2. If any buttons within the **MENU** are "greyed out" it indicates limited system access

		Lighting Controlle	r	
Lights On				
USERS				
SCHEDULING	• -	DALCE	t1+	
SETUP		RAISE		
DIAGNOSTIC	L OFF	LOWER	ADJUST	
LOG IN				
				06:32PM Tue 14

- 1. Default administrator username is **ACUITY** and password is **1234**
- 2. Once logged in as administrator return to **MENU>USERS** to setup user profiles

			Lig	hting	Contro	ller			
	ENTER USE	R NAME	8 PASS	WORD					
	U	SER NAM	ЧE			PA	ASSWOR	D	
4	q w	е	r	t	У	u	j	о р	
	a	s c	d f	· Ç	g ł	n	j k	< I	
	SHIFT Z	×	С	V	b	n	m	ок	
	123+						DEL	CANCEL	
	MENU						09	:10:25AM W	ed 03



Menu>Users (continued)



Overview

User profiles can be setup to establish secured access to system controls

- 1. 3 system access profiles are capable for setup
 - **A.** Administrator- Full system access to control and configuration. Allows system profiles to be created
 - **B.** Configure- Full system access to control and configuration
 - **C. Operate-** Access to lighting controls only. No ability to create/modify scenes or access system configuration. Login is required to access fresco station
- ADD additional profiles for system access
- 3. **REMOVE** a user from the system
- 4. EDIT an existing profile

	Lighting Controller	
Li ^ç User Name	Access	Add
acuity	Administrator	Remove
		Edit
		/
Sec.		1000
		Close
		09:53:21AM Wed 03



Menu>Scheduling and Diagnostic

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Overview

Scheduling stores system time clock control and scheduled lighting events. Diagnostic accesses system technical data that is used for troubleshooting system performance

- 1. Setting up **SCHEDULING** from the station is not currently supported. All schedules must be imported using the Fresco Studio PC tool
- 2. DIAGNOSITC is only needed for reference when needing to troubleshoot system performance

Lighting Controller						
Lights On						
USERS						
SCHEDULING	.	DUCE	+1+			
SETUP		KAISE				
DIAGNOSTIC	U OFF	LOWER	MORE			
LOG IN						
E MENU			08:43:	50AM Wed 03		



Menu>Setup



Overview

Setup accesses system configuration

- 1. SETUP allows access to system configuration for:
 - A. System firmware
 - B. Screen adjustments
 - C. Network IP settings
 - D. Lighting channels
 - E. nLight devices
 - F. DMX fixtures
 - G. Lighting groups

		Lighting Controlle	r/	
Lights On				
USERS				
SCHEDULING	÷		+1+	
SETUP		RAISE		
DIAGNOSTIC	L OFF	LOWER	MUKE	
LOG IN				
E MENU			08:43	50AM Wed 03

ScuityControls...

Setup>About



Overview

System information including device serial number, operating firmware, network settings, and system reset

- 1. Fresco firmware version
- 2. Station serial number
- 3. Network/IP settings
- 4. nLight firmware version
- 5. SET TIME sets date and time for station
- 6. **RESET** is for system reboot which does not erase any stored system data

	Fresco (Beta)	About
	Firmware Version FR10X103.18 Loader Version 0.07	Screen
Serial Number	010600AD	Controller
MAC Address	00-1C-53-00-00-AD	Channels
IP Address	192.168.0.10	nlight
Subnet Address	255.255.255.0	
Broadcast Address	192.168.0.255	
nLight Version	F100A-001 Z004	Groups
	SET TIME	Network
RESET	CLOSE	

SecurityControls.

Setup>Screen



Overview

Modify screen settings and display behavior

- The screen behavior can be set to react in 3 steps when the room is active. These settings can be set to a timeframe (hours, minutes, seconds, or never)
 - 1. First the **SCREEN TIMEOUT** IN will send the display to a logo screen
 - 2. Next the **BACKLIGHT DIM IN** will dim the logo screen
 - 3. Finally the screen will go dark with BACKLIGHT OFF IN
- 2. BACKLIGHT INTENSITY adjust the overall intensity of the screen during normal use
- 3. **PROXIMITY SENSITIVITY** adjust the sensitivity of the station IR sensor that awakes the station when the screen is dark
- SHOW buttons display control buttons on the home screen for 3rd party system control. These are not currently supported
- 5. START ON "LIGHTS ON" PAGE will make this page the primary screen for turning lights on in the space
- 6. SHOW LOGO PAGE will display if the screen is setup to timeout. DEFAULTS sets all screen behavior settings to factory defaults





Setup>Controller

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Overview

Setup station and network settings

- 1. CONTROLLER NAME gives the station a unique name. Press the text box to access keyboard
- ROOM defines the single space that accommodates the connected devices. Up to 8 individual rooms can be setup to be stand alone and also joined (room linking)
- 3. NETWORK ID is the local area Fresco network. This value should not be changed
- 4. CONTROLLER ID is the Fresco station number on the network
- 5. **BAUD RATE** is the data transfer rate. This should not be changed
- 6. **NETWORK** settings are used when accessing the station from an IP network
- 7. IP ADDRESS/SUBNET MASK values can be modified based on IP network configuration
- 8. **DEFAULTS** sends all network settings back to factory default

Controller Name	Lighting Controller	About
Room	A	Screen
Network ID	1	Controller
Controller ID	1	
Baud Rate	115200	Channels
Network	ODISABLED ODHCP OStatic	nLight
IP Address	192.168.000.010	DMX
Subnet Mask	255.255.255.000	Groups
	DEFAULTS	Network
	CLOSE	



Setup>Channels



Overview

Lighting channels are used to control the behavior of lighting devices. A lighting channel corresponds to the control slider. Up to 36 lighting channels can be assigned to a single fresco station

 Create a new lighting channel by pressing (+) next to the channel location



- 1. Create a name for the channel that will appear above the channel slider
- 2. Determine the type of **CONTROL** to be **ZONE, GROUP,** or **NONE**
 - 1. A **ZONE** can be a single or multiple fixture controlled together
 - 2. GROUP is more than one ZONE of lighting controlled together
 - 3. NONE disables the channel slider.





Setup>Channels (continued)



Overview

Lighting channels are used to control the behavior of lighting devices. A lighting channel corresponds to the control slider. Up to 36 lighting channels can be assigned and displayed on a single fresco station

- Choose the **ZONE** that the channel will control. Choose an existing zone or add a new zone
- There are 100 available zones available on each fresco station, but you can only have a maximum of 36 channel sliders. This is intended for additional devices that need to be controlled by the system without controlling them manually from the station

Select Zone
<enter new="" zone=""></enter>
Zone 11
Zone 12
Zone 13
Zone 14
Zone 15
Zone 16
OK CANCEL

- Choose if you want the CHANNEL to be NONDIM. FALSE will provide the 0-100 intensity slider. TRUE will provide an ON/OFF toggle
- 2. MASTER CONTROL allows the home page raise/lower buttons to control the channel.





Setup>nLight[®]



Overview

Add up to 128 supported nLight devices to each fresco station for control

- If you have nLight devices already connected to the station they will appear here
- 2. If you need to manually add devices press < Tap to add nLight> devices

= <r ddd="" dp="" hlights<="" td="" to=""><td>About</td></r>	About
	Screen
	Controller
	Channels
	nLight
	DMX
REMOVE ALL	Groups
REMOVE	Network
CLOSE	

- After pressing <Tap to add nLight> a list of supported nLight devices will display
- 2. Select the device that you want to add





Setup>nLight[®] (continued)



Overview

Add up to 128 supported nLight devices to each fresco station for control

- If the nLight device was auto identified or you manually entered it you now need to set it up*
- 2. Press the (+) next to the device to expand the device settings
- 3. You can change the **NAME** of the device
- 4. SERIAL should be populated already. If it is not press UNASSIGNED and choose it from the list of available serial numbers that match the device



*TIP for UNKNOWN devices

If the station auto discovers an nLight device and appears as UNKNOWN, REMOVE the device and manually enter the device

Setup>nLight[®] (continued)



Overview

Add up to 128 supported nLight devices to each fresco station for control

- Depending on the device it now needs to be configured for control. Press the (+) to setup the control for the device
- 2. Sensors/Wall Stations/Power Packs/Embedded Fixtures Devices
 - 1. Change the **NAME** of the nLight device if desired
 - 2. Choose the type of **CONTROL** it will affect
 - (Group/Zone/Scene/Channel/None)
 - 3. MODE for sensors only will change the setting to (Auto On/Manual Off or Manual On/Auto Off)
 - 4. **TIMEOUT** will adjust device timeout setting
 - 5. **OUTPUT** sets what the relay/dimmer will control
 - 6. Change the **NAME** of the device output if desired
 - 7. Choose what **ZONE** it will control
 - 8. THRESHOLD changes when the relay will get switched on. This will not matter when you assign this to a non-dim channel. You are best to leave this field unchanged
 - LOW SET/HIGH SET are adjustable trim settings for dimming wall stations/power packs/embedded fixture devices





Setup>DMX



Overview

One universe (512 channels) of DMX allows control of DMX/RDM fixtures

- If you have RDM capable DMX devices already connected to the station they will appear here
- If you need to manually add DMX devices press <*Tap to add DMX*> devices



- After pressing <*Tap to add DMX*> choose the DMX fixture type that best matches the profile required
- 2. Choose the DMX start address
- 3. Next select the **ZONE** that it will be assigned to
- If you know the exact fixture ID listed within the Horizon DMX fixture library (provided upon request) choose OTHER and enter the fixture ID and enter the DMX start address and zone output for assignment









Overview

One universe (512 channels) of DMX for control of DMX/RDM fixtures

- If the DMX fixture was auto identified or you manually entered it you now need to set it up
- 2. Press the (+) next to the device to expand the device settings
- 3. Verify the **ZONE** assignment and correct start ADDRESS is correct. Make the changes if necessary
- 4. RDM responding fixtures can be setup by pressing **RDM DEVICE**
- 1. **DISCOVER** will force a DMX signal to search for all RDM discoverable fixtures
- 2. After the search has completed a list of fixtures will display in this list
- **3. IDENTIFY** will locate the fixture (flash to find)
- 4. EDIT will allow the personality of the fixture to be changed if available



Addr	Personality	Status	IDENTIFY
			DISCOVER
			EDIT
			CLOSE



Setup>Groups (continued)



Overview

Multiple lighting zones can be linked together in groups for joint control

1. Create a new group by pressing <*Tap to* add Group>

	About
	Screen
	Controller
	Channels
	nLight
	DMX
REMOVE	ALL Groups
REMO	/E Network
CLOS	

- 1. Set a new **GROUP ID**, start at 1 to keep it simple and easy to manage
- 2. You can create up to 100 groups of lighting

– «Tap to add Group»					About
	Group	IDś			Screen
					Controller
	7	8	9		Channels
	4	5	6		nLight
	Ĩ	°.	3		DMX
		2	5	REMOVE ALL	Groups
	DEL	0	ок	REMOVE	Network
				CLOSE	

ScuityControls.

Setup>Groups



Overview

Multiple lighting zones can be linked together in groups for joint control

- 1. Press (+) to expand the group settings
- Change the group NAME to make it easier to manage by pressing NAME=GROUP #
- 3. Press (+) to expand the **ZONES** that need to be added to the group



1. Select the zones that need to be added to the group. This are existing zones, or a new zone can be setup





Setup>Network



Overview

Network allows the setup and configuration for future fresco system devices

1. There is no current product supported for this system feature at this time

About		-010600AD
Screen		
Controller		
Channels		
nLight		
DMX		
Groups		
Network	DISCOVER	
	CLOSE	

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FCC Guidelines

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

RF Exposure Limit Warning

To comply with FCC's RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This Device complies with Part 15 of the FCC Rules. Operation is subject to the Following Conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

Warning (Part 15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Only the following types of antennas with an equal or lesser gain may be used with this equipment:

PCB, Trace Antenna, 5.3 db Gain



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IC Guidelines

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicablesaux appareils radio exempts de licence.L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil nedoit pas produire de brouillage, et (2)l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'encompromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformémentà la réglementationd'IndustrieCanada, le présentémetteurradio peutfonctionneravec uneantenned'un type et d'un gain maximal (ouinférieur) approuvépour l'émetteurpar IndustrieCanada. Dansle but de réduireles risquesde brouillageradioélectriqueà l'intentiondes autresutilisateurs, ilfautchoisirle type d'antenneet son gain de sortequela puissance isotroperayonnéeéquivalente(p.i.r.e.) ne dépassepas l'intensiténécessaireà l'établissementd'unecommunication satisfaisante.

