



Lumina Pro Version 2.15 Firmware Release

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Description

The Lumina Pro Version 2.15 firmware adds the following new features:

- Support for DSC Power Series security system integration
- Program command to blink UPB devices
- Program command set the light level of a lighting unit for a specified time
- Program command to allow temperatures to be adjusted up or down by a specified number of degrees
- Ability to display a message without the beeping or without beeping or flashing the LED
- Program command to beep consoles and touchscreens
- Program command to enable or disable the beeper on a console or touchscreen
- Ability to enable or disable console beeper locally at the console
- Support for the CentraLite StarLite lighting system
- OmniTouch and programming support for the NuVo Grand Concerto, Essentia, and Simplese audio systems
- OmniTouch and programming support for the Xantech MRC-88 audio system
- OmniTouch and programming support for the Speakercraft MZC audio system
- OmniTouch and programming support for the Proficient M4 and M6 audio systems

Note: Loading new firmware and screens into each OmniTouch touchscreen may be necessary to support new features in Version 2.15 Firmware. Ensure that each OmniTouch is running “Screens Version “8”. To check, press the “Setup” icon from the Home page. Next press the “Screen Setup” icon, followed by the “Next” button. The “Screens Version” should be displayed on the bottom left of the display. If the “Screens Version” is lower than “8” or if the text “Screens Version” is not displayed, use the Model 32A09-1 HAI OmniTouch Loader Kit utility to load new firmware and screens into the OmniTouch touchscreen.

The Lumina Pro Version 2.14 firmware adds the following new features:

- Support for Z-Wave technology
- OmniTouch and programming support for the HAI Hi-Fi Digital Whole Home Audio Distribution System

Note: Loading new firmware and screens into each OmniTouch touchscreen may be necessary to support new features in Version 2.14 Firmware. Ensure that each OmniTouch is running “Screens Version “7”. To check, press the “Setup” icon from the Home page. Next press the “Screen Setup” icon, followed by the “Next” button. The “Screens Version” should be displayed on the bottom left of the display. If the “Screens Version” is lower than “7” or if the text “Screens Version” is not displayed, use the Model 32A09-1 HAI OmniTouch Loader Kit utility to load new firmware and screens into the OmniTouch touchscreen.

*See www.homeauto.com for comprehensive list of firmware updates and descriptions.

About DSC integration

When Lumina Pro is set up to communicate with the DSC panel, up to 64 of the Lumina Pro zones are reserved to mimic those of the corresponding DSC security zones. Once Lumina Pro is set up to communicate with the DSC panel, the first 4 available expansion enclosure spots are reserved to follow the actions of the DSC zones. For example, if no expansion enclosures are installed on the Lumina Pro, zones 49-112 will be reserved to follow the actions of the DSC security zones. If one expansion enclosure is installed, zones 56-128 will be reserved.

The Lumina mode will also follow the arming state of the DSC panel. This allows for remote monitoring of the DSC security system via HAI Snap-Link, and also allows programming options when using Lumina modes. Please be aware that arming and/or disarming of the DSC system via the Lumina Pro is not possible, however it is possible to arm and disarm the DSC panel via HAI Snap-Link.

About Modes

When the current state of the DSC panel is changed, the Lumina Pro will change its “Mode” in order to reflect this change. The changed is based on the current mode of the Lumina Pro and the state that the DSC panel changes to. Below is a table that illustrates how the Lumina mode changed based on a change in the DSC’s state.

Lumina Mode	DSC State			
	Disarm	Stay	Away	Night
Home	No Change	No Change	Away	Sleep
Away	Home	Home	No Change	Sleep
Sleep	No Change	No Change	Away	No Change
Vacation	Home	Home	No Change	Sleep
Special	No Change	No Change	No Change	No Change
Party	No Change	No Change	Away	Sleep

It should be noted that the state of the DSC panel will never change due to the Lumina mode changing. The Lumina Pro will change based on changes in the DSC panel, but the DSC arming state will never change based on changes in the Lumina mode.

DSC Integration Setup

No setup is required to use this feature; however, adding programs to the Lumina Pro can greatly enhance the automation of a home. The following programs give a few examples of the countless tasks that Lumina Pro can accomplish to enhance a home when integrated with the DSC security panel.

The following program will turn on the foyer light when the front door is opened and if it is dark outside.

```
WHEN Front Door NOT READY &IF DARK: Foyer Light ON FOR 5 MINUTES
```

The following program will set a thermostat back to conserve power when no one is home.

```
WHEN SET AWAY: Thermostat 1 MODE AUTO  
WHEN SET AWAY: Thermostat 1 HEAT SETPOINT 60  
WHEN SET AWAY: Thermostat 1 COOL SETPOINT 80
```

For more examples of programming please visit our HAI Knowledge Base at <http://kb.homeauto.com>.

UPB Blink Command

Using HAI PC Access Software, you can create programs to blink any UPB device. If you are using HLC, you can not blink an HLC room (i.e. the 1st or 9th unit in an HLC house code); you can however blink all of the devices within the HLC room, individually.

When setting up the blink program, you will be asked to select one of four blink rates (0.25sec, 0.5sec, 1sec, or 2sec). When the program is executed, the unit will begin blinking either indefinitely or for a specified period of time. If timed, the unit will return to its previous state once the timer has expired.

Note: If a unit is currently timed (On for time, Dimmed for time, Brightened for time, or Off for time), when the blink program is executed, the unit will begin blinking and the previous timer is disabled.

This programming feature will simplify programming when attempting to have a unit blink for a certain event such as an alarm. For example:

When ANY ALARM: Hallway Light BLINK (1.00sec) FOR 5 MINUTES

Timed Level Command

Using HAI PC Access Software, you can create programs to set the light level for a specified time. For example, when the Front Door opens and it is dark outside, you can have the Foyer Light illuminate at 50% for 5 minutes with a single program line.

WHEN Front Door NOT READY &IF DARK: Foyer Light TO 50% FOR 5 MINUTES

At the end of the timer duration, the light will return to its previous state. For example if the light level of the Foyer Light was at 25% prior to the Front Door opening, the light level will return to 25% five minutes after the door opens.

Raise or Lower Temperature Command

Using HAI PC Access Software, you can create programs to raise or lower temperatures by a specified number of degrees (between 1-45 degrees Fahrenheit or 0.5 – 25.0 degrees Celsius). When using this command, specify either raise or lower the heat or cool temperature setpoint and number of degrees.

This feature will allow you to raise or lower the temperature from its current (comfortable) setting when you change the security mode (e.g. you leave the house) and have it return to that temperature when you return home.

WHEN AWAY: Downstairs RAISE COOL SETPOINT 5

WHEN OFF: Downstairs LOWER COOL SETPOINT 5

Display Message without Beeping / Without Beeping or Flashing the LED

Using HAI PC Access Software, when creating programs to display a message on a console or touchscreen, you can specify if the message will be displayed “With Beep” (the console will beep 5 times), “No Beep” (the console will not beep, but the LED will flash), or “No Beep or LED” (the message will be displayed on the console but the console will not beep or flash the LED).

When a message is displayed and “No Beep” is selected, the LED on the console will continue to flash until you acknowledge it by pressing “*” key. Furthermore, on a touchscreen, the message will be displayed in the center of the screen until you acknowledge it by pressing the “OK” button.

When a message is displayed and “No Beep or LED” is selected, the message will simply be displayed on the status line of the console or touchscreen; no audible or visual indication is given.

SUNSET M--T---: SHOW Trash Night NO BEEP OR LED

Beep Command

Using HAI PC Access Software, you can create programs to beep a console (or touchscreen) or all consoles (or touchscreens).

You can program the console(s) to beep once per second indefinitely, to turn off a previous “beeper on” command, or a single beep 1-5 times.

WHEN Pool Door NOT READY: ALL CONSOLES BEEP 5

Enable or Disable Beeper Programmatically

Using HAI PC Access Software, you can create programs to either enable or disable the console or touchscreen beeper; individually or all devices. When the beeper is disabled, no audible beeps are emitted from the device, except for alarm conditions. All other beeps (i.e. entry and perimeter chimes, error beeps, confirmation beeps, trouble beeps, etc.) will not be emitted from the respective console or touchscreen.

This may be used to disable the beeper in a bedroom at night.

WHEN NIGHT: CONSOLE 5 DISABLE BEEPS

WHEN OFF: CONSOLE 5 ENABLE BEEPS

Enable or Disable Console Beeper Locally at the Console

From the top-level display or from the main menu, press the “0” key on the console keypad.

CONSOLE BEEP :
0=OFF 1=ON

Press 0 to disable the beeper at the respective console. Press 1 to enable the beeper at the respective console.

Note: It is not possible to enable or disable the beeper locally at a touchscreen. To enable or disable the touchscreen beeper, you must create a program to do so or use commands from either PC Access or Snap-Link.

Support for CentraLite StarLite Lighting System

StarLite uses wireless, radio frequency technology and your home’s existing electrical wiring for its central lighting control system. Lumina Pro can control all 96 possible StarLite lighting loads.

CentraLite lighting scenes are used to control groups of lights which are preset to turn on to various levels of dimming.

When set to CentraLite, the Lumina Pro controller can:

- Send commands (on, off, and level) to individual loads and relays
- Receive status (on and off) from individual loads and relays
- Execute scene commands (on and off) to control lighting scenes
- Receive commands when buttons are pressed on a CentraLite keypad

StarLite Unit / Event Buttons Programs

This Event Button is activated when a button is pressed on a StarLite keypad.

From the Edit Program Command menu, press the 1 (CTRL) key to select the "When Command" for a control unit event.

```
UNIT:  
ENTER UNIT          ↓
```

The unit may be selected by entering the unit number followed by the '#' key or by using the arrow keys to scroll through a list of unit names. Select the desired unit. Next, you are prompted to specify the event that activates the program:

```
WHEN Porch Light:  
0=OFF 1=ON 2=SWITCH
```

Press the 2 (SWITCH) key.

```
SWITCH:  
0=OFF 1=ON 2-11=SW1-SW10
```

Press "2-9" (see the Corresponding Switch Table) to select when that button is pressed on a keypad.

Press the '#' key to enter your selection.

Corresponding Switch Table

Switch	Lumina Pro	StarLite Keypad
1	2	1
2	3	2
3	4	3

Controlling NuVo, Xantech, Speakercraft, and Proficient Audio Distribution Systems

Once configured by your installer, from any OmniTouch touchscreen, you can control on/off, volume, muting, transports, Audio Source (up to 8 Audio Sources), and many other functions for each of the Audio Zones (up to 36 Audio Zones) on your audio distribution system. The touchscreen will emulate the keypad for the respective audio distribution system; although not all of the features and commands for the audio distribution keypad may be accessible from the OmniTouch touchscreen interface.

To control the audio distribution system from an OmniTouch touchscreen, press the "Audio" icon on the Home page. By default, the interface will emulate a keypad in Audio Zone 1 of the audio distribution system. The Audio Zone can be changed using the "Zone" button on the touchscreen interface. Once the Audio Zone has been changed, it becomes the new default Audio Zone for that OmniTouch touchscreen. If desired, each OmniTouch touchscreen can be configured to default to a different Audio Zone.

NuVo Grand Concerto Key Press Commands

The following key press commands are available for simulating key presses on the NuVo Grand Concerto keypad:

NuVo Grand Concerto Key Presses				
Power	Play/Pause	Favorite 1		
Source Step	Previous	Favorite 2		
Volume up	Next	Favorite 3		
Volume down		Favorite 4		
Mute		Favorite 5		
		Favorite 6		
		Favorite 7		
		Favorite 8		
		Favorite 9		
		Favorite 10		
		Favorite 11		
		Favorite 12		

NuVo Essentia and Simplese Key Press Commands

The following key press commands are available for simulating key presses on the NuVo Essentia and Simplese keypad:

NuVo Essentia and Simplese Key Presses				
Power				
Source Step				
Volume up				
Volume down				
Mute				

Xantech Key Press Commands

The following key press commands are available for simulating key presses on the Xantech keypad:

Xantech MRC-88				
Source Select 1	Channel Up	Mute	Play	Volume Up
Source Select 2	Channel Down		Stop	Volume Down
Source Select 3			Pause	
Source Select 4			Rewind	
Source Select 5			Forward	
Source Select 6				
Source Select 7				
Source Select 8				

Speakercraft Key Press Commands

The following key press commands are available for simulating key presses on the Speakercraft MKP keypad:

Speakercraft MZC				
Source Select 1	Power	One	Track	Guide
Source Select 2	Mute	Two	Disc	Menu
Source Select 3	Volume Up	Three	Random	Up
Source Select 4	Volume Down	Four	Repeat	Down
Source Select 5		Five	Bass	Left
Source Select 6		Six	Treble	Right
Source Select 7		Seven		Select
Source Select 8		Eight		Escape
		Nine		Info
		Zero		Rewind
				Forward
				Pause
				Play

Note: In order for the key presses to perform the correct operation, an MKP keypad must be assigned to address zero in each zone of the Speakercraft installation.

Proficient Key Press Commands

The following key press commands are available for simulating key presses on the Proficient keypad:

Proficient M4 and M6				
Source Select 1	Power	One	Track	Guide
Source Select 2	Mute	Two	Disc	Menu
Source Select 3	Volume Up	Three	Random	Up
Source Select 4	Volume Down	Four	Repeat	Down
Source Select 5		Five	Bass	Left
Source Select 6		Six	Treble	Right
Source Select 7		Seven		Select
Source Select 8		Eight		Escape
		Nine		Info
		Zero		Rewind
				Forward
				Pause
				Play
				Stop

Note: In order for the key presses to perform the correct operation, a PMK keypad must be assigned to address zero in each zone of the Proficient installation.

Configuring the DSC Serial Port

The serial port on the DSC panel must first be activated. Consult the DSC installation manual for details. Once the DSC serial port is activated, a serial connection must be made from the DSC serial port to an unused serial port on the Lumina Pro.

Configuring Serial Communications for DSC, NuVo Grand Concerto, NuVo Essentia/Simplese, Xantech, Speakercraft, or Proficient

When connecting the DSC, NuVo Grand Concerto, NuVo Essentia/Simplese, Xantech, Speakercraft, or Proficient to a serial interface on the Lumina Pro controller, the serial interface must be configured to the respective protocol.

Serial Module Setup

When connecting the DSC, NuVo Essentia/Simplese, or Xantech to the HAI Model 10A17 Serial Interface Module, the “Module Type” must be configured as follows:

From the Installer Setup menu, select the 7 (EXP) key.

The Module Type defines the function of each expansion module on the controller. Module 1 is the module with the ADDR jumper set to 1. Set the module type from the list below. Press '#' to change the module type, then use the arrow keys to select the proper module type, then press '#' to enter:

```
MODULE 1 TYPE          3
OMNI-LINK              #=CHNG ↓
```

- For NuVo Essentia/Simplese communications: set the Serial Interface Module to “13” (NUVO ESSENTIA/SIMPLESE).
- For Xantech communications, set the Serial Interface module to “14” (XANTECH).
- For DSC communications, set the Serial interface module to “17” (DSC COMMUNICATIONS).

For example, when configuring the module to Xantech and if the jumper on the Serial Interface Module is set to 1, set “Module 1” Type to “14” (XANTECH). The Serial Interface Module is now set to use the Xantech Protocol.

MODULE TYPES	NUMBER	DESCRIPTION
NOT USED	0	No module is installed
HARDWIRE EXPNDR	1	Model 10A06 Hardwire Expander installed
ALC	2	ALC Interface Module is installed
OMNI-LINK	3	Model 10A17 Serial Interface using the Omni-Link protocol
PRO-LINK	4	Model 10A17 Serial Interface using the Pro-Link protocol
UPB	5	Model 10A17 Serial Interface using the UPB protocol
RADIO RA	6	Model 10A17 Serial Interface using the RadioRA protocol
NUVO CONCERTO	7	Model 10A17 Serial Interface using the NuVo Concerto protocol
CENTRALITE	9	Model 10A17 Serial Interface using the CentraLite protocol
VIZIA RF Z-WAVE	10	Model 10A17 Serial Interface using the Z-Wave protocol
HAI HI-FI	11	Model 10A17 Serial Interface using the HAI Hi-Fi protocol
NUVO ESSENTIA/SIMPLESE	13	Model 10A17 Serial Interface using the NuVo Essentia/Simplese protocol
XANTECH	14	Model 10A17 Serial Interface using the Xantech protocol
DSC SECURITY	17	Model 10A17 Serial Interface using the DSC protocol

Note: The NuVo Grand Concerto, Speakercraft, or Proficient audio system can not be connected to the HAI Model 10A17 Serial Interface Module. It must be connected to the second or third built-in serial port (J2 or J3 Serial) on the Lumina Pro controller.

Serial Function Setup

When connecting the DSC, NuVo Essentia/Simplese, or Xantech to one of the built-in serial ports (J1-J3 Serial) or when connecting the DSC, NuVo Grand Concerto, NuVo Essentia/Simplese, Xantech, Speakercraft, or Proficient to (J2-J3 Serial) on the Lumina Pro, the "Serial Function" selects the communication protocol that is used.

Serial 1 Function

Select the function for the built-in serial interface from the list. Use the arrow keys to select the function then press the '#' key.

FUNCTION TYPES	NUMBER	DESCRIPTION
OMNI-LINK	3	Serial communication using the Omni-Link protocol
PRO-LINK	4	Serial communication using the Pro-Link protocol
UPB	5	Serial communication using the UPB protocol
RADIO RA	6	Serial communication using the RadioRA protocol
NUVO CONCERTO	7	Serial communication using the NuVo Concerto protocol
RUSSOUND	8	Serial communication using the Russound protocol
CENTRALITE	9	Serial communication using the CentraLite protocol
VIZIA RF Z-WAVE	10	Serial communication using the Z-Wave protocol
HAI HI-FI	11	Serial communication using the HAI Hi-Fi protocol
NUVO GRAND CONCERTO	12	Serial communication using the NuVo Grand Concerto protocol
NUVO ESSENTIA/SIMPLESE	13	Serial communication using the NuVo Essentia/Simplese protocol
XANTECH	14	Serial communication using the Xantech protocol
SPEAKERCRAFT	15	Serial communication using the Speakercraft protocol
PROFICIENT	16	Serial communication using the Proficient protocol
DSC SECURITY	17	Serial communication using the DSC protocol

Serial 2 - Serial 3 Function

The "Serial 2 Function" and "Serial 3 Function" selects the communication protocol used for the built-in serial interface ports (J2 Serial and J3 Serial, respectively) on the Lumina Pro controller. Select the function for the built-in serial interface from the list.

Notes:

1. Lumina Pro only supports communications with one audio distribution system: HAI Hi-Fi, NuVo, Russound, Xantech, Speakercraft, or Proficient. Do not configure more than one audio protocol.
2. The NuVo Grand Concerto, Speakercraft, or Proficient audio systems can not be connected to the first built-in serial port (J1 Serial) on the Lumina Pro controller. It must be connected to the second or third built-in serial port (J2 or J3 Serial).
3. When connecting the Speakercraft audio system, the RSA 1.0 MZC Control Interface Module must be used.