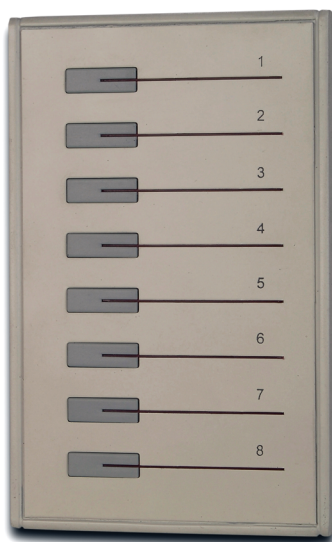


Strand Lighting

Strand Lighting is a Philips group brand

Vision.net

Pushbutton Station



Models:

63021VN, 63022VN, 63024VN & 63028VN

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Document Number: 2-450199-010

Version as of: December 11, 2008

Vision.net Pushbutton Station Installation & Operation Guide

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IMPORTANT INFORMATION. PLEASE READ!

This unit is intended for installation in accordance with the National Electric Code® and local regulations. It is also intended for permanent installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

PREFACE

About this Guide

The document provides programming and installation instructions for the following Vision.net products:

- Vision.net Pushbutton Stations (63021VN, 63022VN, 63024VN & 63028VN)

Please read all instructions before installing or using this product. *Retain this guide for future reference.*

Vision.net System Overview

The Vision.net System is designed to control architectural lighting by distributing both power and intelligence. The system provides processing power and control at each respective Pushbutton, Fader or Touch Screen Station, eliminating the need for a central processor.

Fader Stations provide individual control for up to 15 channels, 8 scenes plus "Off," all with adjustable fade times. By combining Vision.net Fader Stations, Vision.net Button Stations and Vision.net Touch Screens, the system provides remote access to scenes, Master Raise/Lower control, Multi-room partition control, or Master Station Lockout.

Vision.net Stations are compatible with Strand Lighting A21, R21, C21 and EC21 Dimming Cabinets.

Vision.net products are controlled by the Vision.net System protocol. All Vision.net control devices must be connected to the Vision.net system and given a unique ID (or address) in order to interact properly. The ID identifies the device on the network and allows the device to avoid network collisions when transmitting data.

Quick Start

To get the 8-Button Remote Station up and running quickly, use the following checklist:

- Step 1. Install unit (refer to "Installation" on page 4).
- Step 2. Connect to Vision.net Network
- Step 3. Set the mode using the Vision.net Designer software

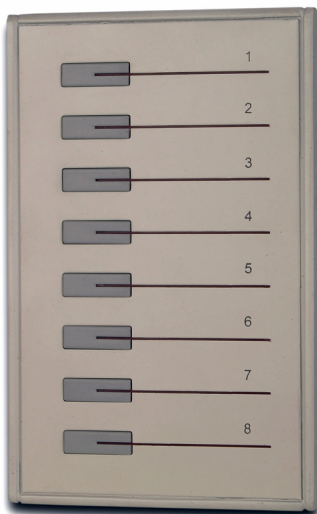
The unit should now be ready for operation.

Note: Panels are pre-configured at the factory with the ID of 1 and are set to activate Scenes 1 to 8 in Room 1 of your Vision.net system.

8-Button Remote Station Overview

The Vision.net Button Remote Stations (63021VN, 63022VN, 63024VN & 63028VN) are used in combination with other Vision.net panels to provide quick, one-touch access to up to 8 Preset Scenes.

The 8- Button Remote Station features illuminated pushbuttons which correspond to Scenes 1-8. The following diagram provides an overview of 8-Button Remote Station controls in a typical configuration:



SPECIFICATIONS

Electrical

- Input Power: +18-26 VDC (powered from Vision.net network)
- Current: 20mA
- Temperature:
 - Storage: -25° to 85° C
 - Operating: 0° to 40° C
 - Relative Humidity: 30-90% (non-condensing)

Communications

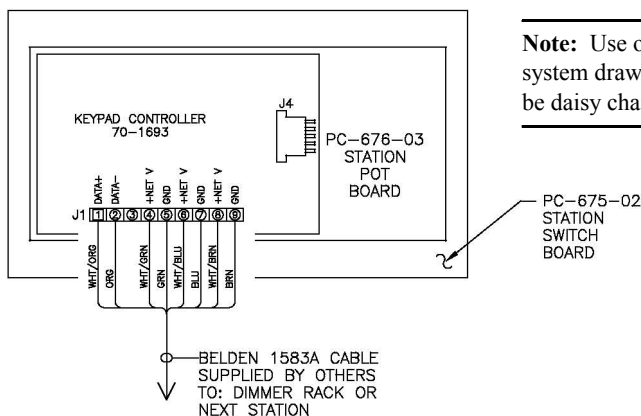
- Vision.net Protocol

INSTALLATION

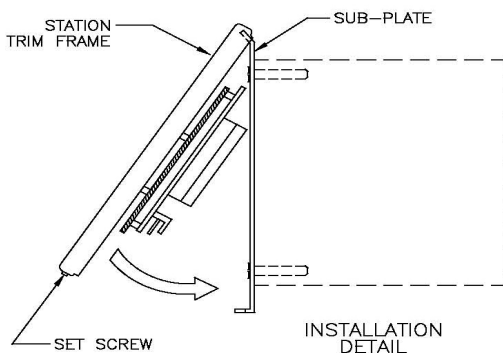
The Vision.net Network consists of a single CAT5e cable connecting all modules in a daisy chain manner. All units connect to the network using a 9-pin plug-in connector (included).

Installation Steps

- Step 1. Unpack unit and inspect for any signs of shipping damage. Ensure that two mounting screws and Allen Key are included.
- Step 2. Release the Sub Plate from the panel by loosening the set screw at the base of the panel with the supplied Allen Key.
- Step 3. Connect Sub Plate to a wall box using the two supplied mounting screws.
- Step 4. Connect Vision.net Network Cable to 9-pin connector at back of the panel Interface.



- Step 5. Connect the trim panel to the sub frame and fix in place with the set screws.



VISION.NET STATION OPERATION MODES

Vision.net stations can be set in either Standard Mode or Configurable Mode. The default setting for the station is assigned to Room 1 in Standard Mode.

A station, configured in either Standard or Configurable Mode, can be reset to the factory default as follows:

- Step 1. Unplug the station from the network.
- Step 2. Re-plug the station while pressing and holding any button for at least 3 seconds.

Standard Mode

In Standard Mode, you can control up to 31 rooms, each with Presets 1 to 8.

Note: Standard Mode requires either 8-button stations or Slider Preset stations in each room.

Assigning a station to a room:

- Step 1. Reset the station to the factory default, Room 1 as described above.
- Step 2. Press and hold Buttons 3 and 6 for 3 or more seconds to enter programming mode. When in programming mode, all button LED's are off, except for Button 1 which should be flashing. All other Stations on the network will blink with either one or two quick blinks every 2 seconds
- Step 3. Pressing Button 2 increases the assigned room number by 1. You can press Button 2 a maximum of 30 times assigning it up to room 31.
- Step 4. Stations with a single blink every 2 seconds are already set to this room. Pressing and holding any button on a blinking station that has the 2 blink pattern for 3 or more seconds, will set it to the current room. It will blink in with the single blink pattern in confirmation.
- Step 5. Complete the programming mode by pressing and holding Button 1 on the first station.

Configurable Mode

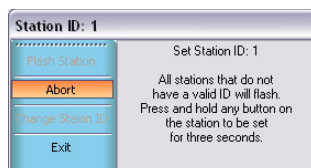
In Configurable Mode, Vision.net products are controlled by the Vision.net System protocol. All Vision.net devices must be given an ID (or address), which identifies the device on the network and allows it to avoid network collisions when transmitting data.

Standard IDs are in the range of 1 to 1000. The Network ID for the panel will be pre-assigned at 1 by the factory and will need to be set to the required address and programmed as required for your installation.

Vision.net stations are programmed and have their ID's set using the Vision.Net Designer software (supplied separately, part number #67518). To obtain the Vision.Net Designer software, please contact your local Strand Lighting Distributor.

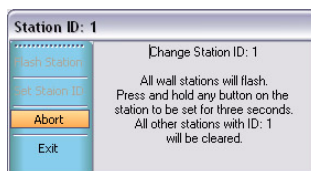
Setting the Station's Vision.net Network ID:

- Step 1. Connect the PC running the Vision.net Designer software to the Vision.net Network via the Vision.net RS232 station, using an RS232 lead. Alternatively you can connect to the Vision.net network using a Bluetooth interface. Please contact your local Strand Lighting Office for more details on this interface.
- Step 2. Set Vision.net Designer to work "On Line."
- Step 3. Select or add the required station from the Network Tree and press the Station ID button.
- Step 4. Select Set Station ID and the LED's of all unassigned stations will flash.
- Step 5. Press and Hold any button on the required station for 3 seconds and the station's ID will be set.



Changing the Vision.net Network ID:

- Step 1. Connect the PC running the Vision.net Designer software to the Vision.net Network via the Vision.net RS232 station, using an RS232 lead. Alternatively you can connect to the Vision.net network using a Bluetooth interface. Please contact your local Strand Lighting Office for more details on this interface.
- Step 2. Set Vision.net Designer to work "On Line."
- Step 3. Select or add the required station from the Network Tree and press the Station ID button.
- Step 4. Select Change Station ID and the LED's of all stations will flash.
- Step 5. Press and Hold any button on the required panel for 3 seconds and that Station will be set to the current station ID. Any other station that is currently set to that ID will have its ID cleared.



Saving the Configuration to the Station:

- Step 1. Connect the PC running the Vision.net Designer software to the Vision.net Network via the Vision.net RS232 station, using an RS232 lead. Alternatively you can connect to the Vision.net network using a Bluetooth interface. Please contact your local Strand Lighting Office for more details on this interface.
- Step 2. Set Vision.net Designer to work "On Line."
- Step 3. Select or add the required station from the Network Tree and set the required mode for each button as desired.
- Step 4. Select Upload & OK and the configuration set in the Vision.net Designers software will be saved to the station.

Configure Wall Station

Station Label: Station ID: Station Type:

☐ This station is virtual (there is no corresponding wall station)

☐ All buttons on this panel are the same style
☒ This panel contains different style buttons

Disable Press-Hold Learn on Wall Station

	Button Label	Button Type	Group/Room	Channel #	Mode Map
1	Toggle 1	Toggle	1	1	[abcde fgh]
2	Toggle 2	Toggle	1	2	[abcde fgh]
3	Toggle 3	Toggle	1	3	[abcde fgh]
4	Toggle 4	Toggle	1	4	[abcde fgh]
5	Toggle 5	Toggle	1	5	[abcde fgh]
6	Toggle 6	Toggle	1	6	[abcde fgh]
7	Toggle 7	Toggle	1	7	[abcde fgh]
8	Toggle 8	Toggle	1	8	[abcde fgh]

Slider Room: Number of Sliders: Expander:

Note: If the upload process fails, a warning will appear advising that the communications to the panel are unreliable. If this occurs, check that you have a good connection to the Vision.net network and that there is a panel with the ID that you are trying to download the information to. Refer to "Troubleshooting" on page 9.

Downloading the current Configuration from the Station:

- Step 1. Connect the PC running the Vision.net Designer software to the Vision.net Network via the Vision.net RS232 station, using an RS232 lead. Alternatively you can connect to the Vision.net network using a Bluetooth interface. Please contact your local Strand Lighting Office for more details on this interface.
- Step 2. Set Vision.net Designer to work "On Line."
- Step 3. Select or add the required panel from the Network Tree and press the Get Configuration from Station button. The current configuration loaded in that panel will be downloaded to Vision.net Designer.

Once the information has been downloaded the current configuration of the station will be displayed.

Configure Wall Station

Station Label: Station ID: Station Type:

☐ This station is virtual (there is no corresponding wall station)

☐ All buttons on this panel are the same style
☒ This panel contains different style buttons

Disable Press-Hold Learn on Wall Station

	Button Label	Button Type	Group/Room	Preset #	Rate		Mode Map
1	Preset 1	Preset	1	1	3 sec	☐	[abcde]gh
2	Preset 2	Preset	1	2	3 sec	☐	[abcde]gh
3	Preset 3	Preset	1	3	3 sec	☐	[abcde]gh
4	Preset 4	Preset	1	4	3 sec	☐	[abcde]gh
5	Preset 5	Preset	1	5	3 sec	☐	[abcde]gh
6	Preset 6	Preset	1	6	3 sec	☐	[abcde]gh
7	Preset 7	Preset	1	7	3 sec	☐	[abcde]gh
8	Preset 8	Preset	1	8	3 sec	☐	[abcde]gh

Note: If the download process fails, a warning will appear advising that the communications to the panel are unreliable. If this occurs, check that you have a good connection to the Vision.net network and that there is a panel with the ID that you are trying to download the information to. Refer to "Troubleshooting" on page 9.

OPERATION

Selecting a Scene

Typically an 8-button station provides access to eight Scenes (1-8). To select a Scene, press the appropriate button on the keypad. The LED will illuminate to show the selected scene.

Recording a Scene

If the 8-button station does not have the "Disable Press-Hold Learn" feature enabled, pressing and holding the button on for 3 or more seconds will record the current state into the scene. The LED for the scene will then illuminate to confirm that it has been recorded. *Note: If other actions have been programmed into the panel, it is possible that LED may not illuminate.*

TROUBLESHOOTING

In order to determine if a Vision.net Network device is communicating, a network test signal can be sent.

Standard Mode

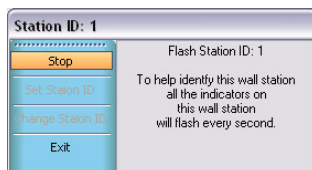
- Step 1. Press and hold Buttons 3 and 6 for 3 or more seconds to enter programming mode, When in programming mode, all button LED's are off, except for Button 1 which should be flashing.
- Step 2. All other stations assigned to the same room will flash.
- Step 3. Cancel programming mode by pressing and holding Button 1 on the same station.

Configurable Mode

The network test signal can be sent using the Vision.net Designer software.

Station Identification:

- Step 1. Connect the PC running the Vision.net Designer software to the Vision.net Network via the Vision.net RS232 station, using an RS232 lead. Alternatively you can connect to the Vision.net network using a Bluetooth interface. Please contact your local Strand Lighting Office for more details on this interface.
- Step 2. Set Vision.net Designer to work "On Line."
- Step 3. Select the required panel from the Network Tree and press the Station ID button.
- Step 4. Select Flash Station and the LED's of the selected station will flash.



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