Integration Note

Manufacturer:	Vantage Lighting
Model Number(s):	**MC, CW SERIES, KS SERIES, DS SERIES, RDS SERIES, CIS SERIES, STR8W201**
Minimum Core Module Version:	
Document Revision Date:	2/12/2013

OVERVIEW AND SUPPORTED FEATURES

Installing a Vantage lighting system can be broken down into the following steps:

1. Work with the client to determine what lights will be controlled, where switches will be installed, and where keypads will be installed. Follow Vantage guidelines.

2. Install and test the Vantage system, again according to Vantage standard procedures. See **Installation Overview** below for details on wiring the Vantage hardware to the **g!** system.

3. Program the Vantage system: refer to **Vantage Programming Overview** for details on how the **g!** system treats Vantage input and output devices.

4. Integrate the lighting system into the **g!** system and test proper operation. This step is described in **g! System Programming** and **g! Configuration Details**.

VANTAGE LIGHTING SYSTEMS SUPPORT THE FOLLOWING FEATURES:

Any feature not specifically noted as "supported" is not supported.

Switch Control: Control of individual loads from virtual and simulated keypads.

Scene Control: Control of scenes from virtual and simulated keypads.

Schedule Control: Up to three schedules can be set using the Viewer software. The schedules are tied to the house mode.

Relay Control: Control of Vantage relays through custom buttons and the Event Mapper.

Input Sense: Detection of inputs from Vantage input modules and control of any other device through the Event Mapper

Auto Detection: The **g!** system will automatically detect most switches, keypads, input modules and output modules in the system; however, there may be some additional configuration required: see **g! System Programming Overview** for details.

Devices Supported: The following table lists the devices that are currently supported:

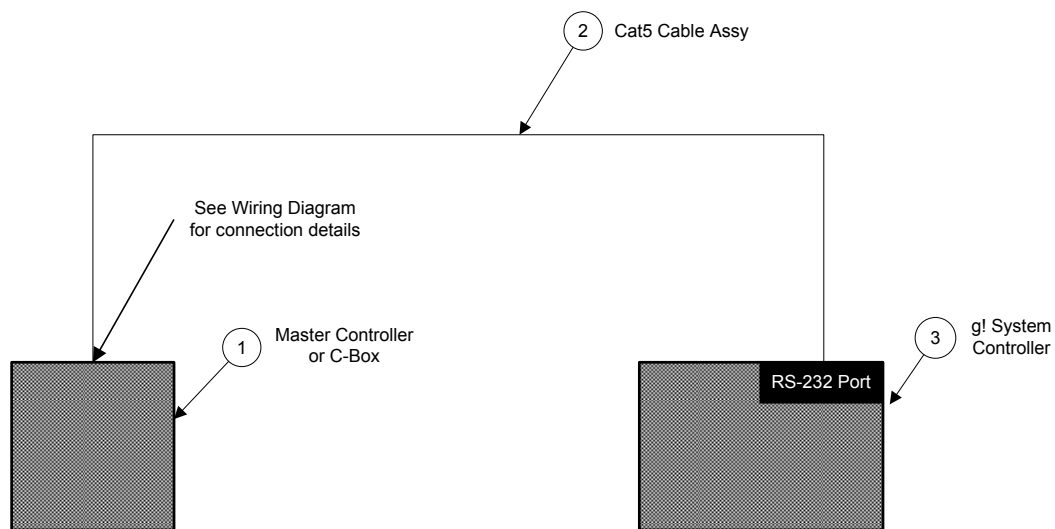| Model Number	Description
MC	Master Controller
CW Series	C-Box Series
KS-Series	Keypad Station Series
DS-Series,	ScenePoint Dimmer Series
RDS-Series	RadioLink ScenePoint Dimmer Series
CIS-Series	Contact Input Station
STR8W201	Din Relay Station

INSTALLATION OVERVIEW

Installing a Vantage lighting system in conjunction with a **g!** system includes the following steps:

1. During the rough-in phase, **in addition** to the wire runs needed for the Vantage system, add a single Cat5 cable from the Master Controller or C-Box to the **g!** System Enclosure.

2. Complete the Vantage installation, and test according to Vantage procedures.

3. Terminate and connect the Cat5 cable from the Vantage system and the **g!** system.

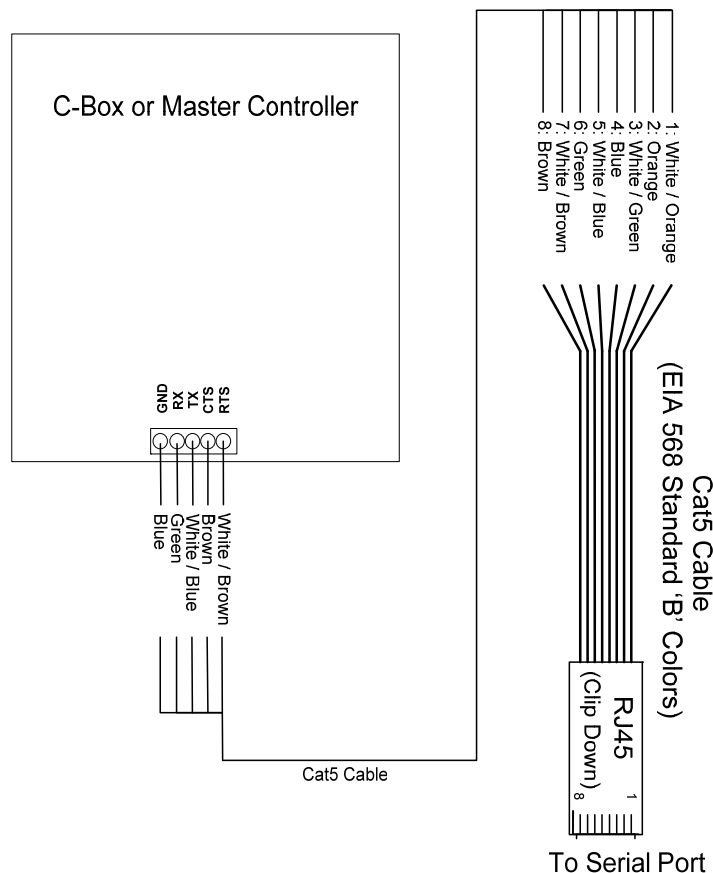4. Configure the **g!** system.

CONNECTION DIAGRAM

Refer to the **Bill of Materials** and **Wiring Diagram** that follow.

② Cat5 Cable Assy

See Wiring Diagram
for connection details

① Master Controller
or C-Box

RS-232 Port

③ g! System
Controller

BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Master Controller or C-Box	Vantage	MC or CW Series	RS-232	Terminal Strip	Refer to wiring diagram for details
2	Cat5 Cable Assy.	Installer	N/A	RS-232	RJ-45 Male X Wire	
3	g! System Controller	ELAN	Various (e.g. HC 12)	RS-232	RJ-45 Female	

C-Box or Master Controller

GND
RX
TX
CTS
RTS

White / Brown
Brown
White / Blue
Green
Blue

Cat5 Cable

1: White / Orange
2: Orange
3: White / Green
4: Blue
5: White / Blue
6: Green
7: White / Brown
8: Brown

Cat5 Cable
(EIA 568 Standard 'B' Colors)

RJ45
(Clip Down)

To Serial Port

VANTAGE PROGRAMMING OVERVIEW

The following include things to keep in mind as you program the Vantage system:

DEVICE ID

During the Vantage programming process, make a note of the master controller # setting in the Q-link software. You will need this number later in the **g!** Configurator.

INPUT AND OUTPUT DEVICES

In addition to lighting loads, the Vantage system may include input and output devices. These devices will automatically be discovered by the **g!** system and appear in the **Input / Output** tab of the configurator. The individual inputs and outputs will need to be added and addressed with their individual device ID#s as defined in the Vantage Programming Software.

As a result, the **g!** system provides access and control from the Viewer interface to these inputs and outputs. For example, you can add a DIN Relay Station and wire it to a driveway entrance gate. You can then add a button on the Home tab of the Viewer to open and close the gate.

g! SYSTEM PROGRAMMING OVERVIEW

The following steps are accomplished with the **g!** Configurator to complete the **g!** system configuration (see also **g!** Configuration Details below).

Note that Vantage system does not correctly report the keypad type, so you must specifically set the type in the Configurator to get the correct button layout for each keypad.

Step	Instructions	Comments
1	Add a Communication Device for the Vantage Q-Series Network	Refer to the settings in **g! Configuration Details** below.
2	Add the Vantage Lighting Interface	Refer to the settings in **g! Configuration Details** below.
3	Automatically detect devices	Click on the lighting interface added above from the tree structure at left, and then click **Discover Devices**. Wait for the system to analyze the Vantage installation.
4	Get the correct keypad faceplate and name the buttons	Click on the first keypad in the tree structure at left to show the keypad properties in the properties window at right. A **Keypad Interface** should be added automatically below. Right click the keypad under **Keypad Interfaces** and choose **Change Template**, then select the proper face plate design and click **OK**. Set the button names: select the first button on the keypad, and then click **Edit Text**. Type in the desired name and click **OK**. Repeat for the remaining buttons on the keypad.
5	Change the keypad name	The keypad name appears in the Viewer interface on the tab at the bottom of the screen for this keypad. If desired, you can change the keypad name by typing a new name in **Name** field of the properties window of the **Keypad Interface**. The name of the keypad itself will change above.
6	Setup the Tablet interfaces	On a tablet by tablet basis, set the keypads to be shown in the Viewer Interface. In the configurator under the lighting tab, click on **Tab Layout.** Select the tablet to configure and set the keypads to be displayed as **Interface Tabs.** Set the keypads to be hidden on that tablet as **Available Tabs**.
7	Set up the Thermostats <optional>	Click on the Climate tab and add an HVAC unit. Configure its control for Heat/Cool/Fan. Click Thermostats then click **Add New Device.** Select Vantage Thermostat. Set the Master #, Station #, and HVAC unit from the drop down box. Remove the thermostat keypad that was entered under **Lighting** during the auto-detect process.

g! CONFIGURATION DETAILS

The following table provides settings used in the **g!** Configurator when connecting to a Vantage system. Please refer to the *Configurator Reference Guide* for more details.

In the table below:

- o "<Select from list>" Select the appropriate item from the list (or drop-down) in the Configurator.
- o "<User Defined>", etc. Type in the desired name for the item.
- o "<Auto Detect>", etc. The system will auto detect this variable.

Devices	Variable Name	Setting	Comments
Communication Devices	Name	<Auto Detect> (See Note 1)	
	Type	**Serial Port**	
	Communication Type	**Vantage Q-Series Network**	
	Location	<User Defined> (Not Required)	
	COM Port	<Select from list>	COM1, 2, 3 or 4
Lighting Interface	Name	<User Defined> (Default: **Vantage Q-Series Network**)	
	Interface Type	**Vantage Q-Series Controller**	
	Location	<Select from list> (Not Required)	
	COM Device	<Select from list> (Default: **Vantage Q-Series Network**)	
	Device ID	<Select from list>	Must match the ID set in the Vantage controller
Lighting Devices	Name	<Auto Detect>	
	Lighting Interface	<Auto Detect>	
	Device Type	<Auto Detect>	
	Location	<Select from list> (Not Required)	
	Station / Enc / Mod / LD	<Auto Detect>	
Keypads	Name	<User Defined>	
	Lighting Interface	<Auto Detect>	
	Keypad Type	<Select Correct Template from List>	See note 2
	Location	<Select from list> (Not Required)	
<Thermostats>	Name	<User Defined>	Thermostats are configured on the Climate Tab
	Device Type	**Vantage Thermostat**	
	Location	<Select Correct Template from List>	See note 2
	COM Device	<Select from list> (Default: **Vantage Q-Series Network**)	
	Master/Station	<Select from list>	Must match the ID#'s set in the Vantage software
	Heating Unit	<Select from list>	
	Cooling Unit	<Select from list>	
	Alarm Low Value	<Select from list>	Defaults to 40
	Alarm High Value	<Select from list>	Defaults to 90
Notes:			
1. The **Communication Device Name** is set to **Lighting** by default. After you select the Vantage Q-Series Network, the name will change to **Vantage Q-Series Network.**			
2. The keypad templates need to be assigned manually. Refer to **g! System Programming Overview** for details.			

COMMON MISTAKES

1. Failing to plug the Cat5 cable assembly into the correct serial port. Make sure the RJ-45 connector is plugged into the correct serial port as specified in the Configurator.

2. Wiring the Cat5 cable assembly incorrectly. This cable is difficult to test but can easily be visually inspected. See the wiring diagram provided in this document.

3. Setting the wrong Device ID in the Lighting Interface section: make sure the Vantage master controller ID matches the **Device ID** shown in the properties window when you select the Vantage lighting interface from **Lighting Interfaces** in the system tree.

4. Configuring 2 subsystems with the same serial port.