# Integration Note

| Manufacturer: | Nuvo |
|---|---|
| **Model Number(s):** | **Essentia** |
| **Core Module Version:** | Up to 5.9 zone controller and source control |
| | 6.0.236 and newer includes zone controller integration only, no virtual keypads for source control. |
| Document Revision Date: | 1/17/2013 |

## OVERVIEW AND SUPPORTED FEATURES

### THE FOLLOWING FEATURES ARE SUPPORTED:

**Traditional Whole-House Audio:** The Nuvo Essentia has keypads in each zone that control the volume and source.

### THE FOLLOWING FEATURES ARE NOT SUPPORTED:

**Built-in Support for IR:** The Nuvo does not have internal IR capability.  To control a source, you must use a remote control, or add a compatible IR capable device (such as the Global Cache GC-100) to create the IR that goes to any IR sources.

**Virtual Keypads for source control (v6):** source control via virtual keypads is not supported in version 6.0.

**OSD/HR2/TS2 Controllers:**  The g! Software On-Screen Display, HR2 and the TS2 **WILL NOT FUNCTION CORRECTLY** with this zone controller's source devices and is specifically **NOT** supported.
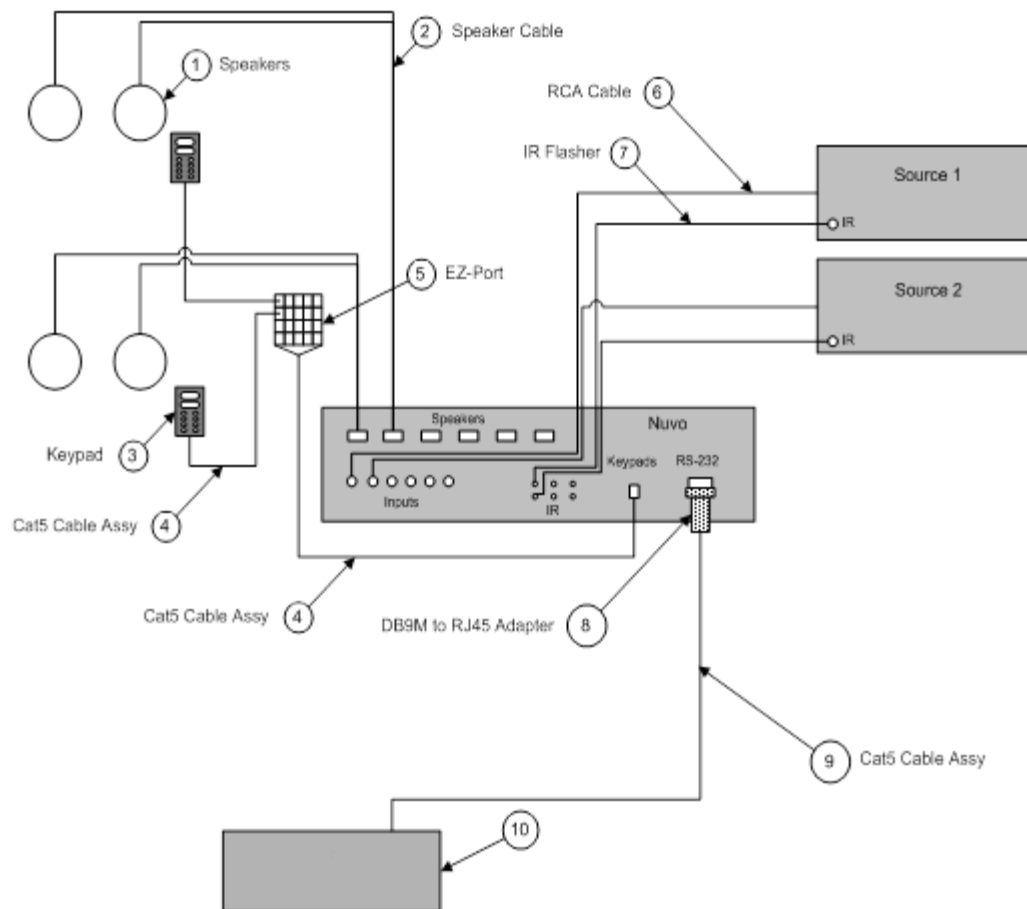
**Source control in an "output from zone" configuration:**  virtual keypads for source control will not work unless they are directly in a Russound zone.  They will not work when a zone from Russound is configured as a source in another zone controller.

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| Any feature not specifically noted as supported should be assumed to be unsupported. |

# INSTALLATION OVERVIEW

1.  During the rough-in phase, install speaker wire for the speakers and Cat5 cable for keypads, in each zone.

2.  Also during the rough-in phase, run a Cat5 wire from the location of the Nuvo back to the Network Assembly of the **g!** system for RS-232 communications.  Refer to the *RS-232 Connection Options Integration Note* for other options.

3.  Mount the speakers and keypads in each zone, and install the Nuvo and the sources.

4.  Setup the Nuvo.  This consists of setting the switches on the keypads as explained in the Nuvo documentation.

5.  Test the entire Nuvo system to ensure that all the sources play correctly in every zone, and that the keypad buttons behave correctly from the keypads.

6.  Connect the **g!** system to the Nuvo system electrically. See the wiring diagrams for more information.

7.  Configure the **g!** system for the Nuvo and confirm communication between the Nuvo and the **g!** system controller.

8.  Test the system by changing sources in a zone to confirm the correct source plays, and by testing the **g!** interface transport control and media server controls.

# CONNECTION DIAGRAMS



## BILL OF MATERIALS

| # | Device | Manufacturer | Part Number | Protocol | Connector Type | Notes |
|---|--------|--------------|-------------|----------|----------------|-------|
| 1 | Speakers | N/A | N/A | Analog | Wire | |
| 2 | Speaker Cable | N/A | N/A | Analog | Wire | |
| 3 | Keypad | Nuvo | Various | Serial | RJ-45 Female | |
| 4 | Cat5 Cable Assy. | Installer | N/A | Serial | RJ-45 Male X RJ-45 Male | Must connect all 8 wires |
| 5 | EZ-Port | Nuvo | NV-E6DEZP | Serial | RJ-45 Female X RJ-45 Female | One included with Essentia |
| 6 | RCA Cable | N/A | N/A | Analog | RCA X RCA | None included with Essentia |
| 7 | IR Flasher | Nuvo | NV-VEC | IR | Mini Jack X IR Flasher | Six are Included with the Essentia |
| 8 | DB9M to RJ45 Adapter | ELAN | HA-CB-307 | RS-232 | DB-9 Male X RJ-45 Female | |
| 9 | Cat5 Cable Assy. | Installer | N/A | RS-232 | RJ-45 Male X RJ-45 Male | Must connect all 8 wires |
| 10 | g! System Controller | ELAN | Various (e.g. HC12) | RS-232 | RJ-45 Female | |

# g! CONFIGURATION DETAILS

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

- "<Select>"                                    Select the appropriate item from the list (or drop-down) in the Configurator.
- "<User Defined>", etc.                  Type in the desired name for the item.

| Devices | Variable Name | Setting | Comments |
|---|---|---|---|
|  |  |  |  |
| **Communication Devices** | **Name** | <User Defined> (Default: **Audio**) |  |
|  | **Type** | **Serial Port** |  |
|  | **Communication Type** | **Standard Connection** |  |
|  | **Location** | <User Defined> (Not Required) |  |
|  | **Com Port** | <Select> |  |
|  |  |  |  |
| **<Other RS-232 Sources>** | Add any other RS-232 controlled sources. Refer to the Integration Note for each specific source device. |  |  |
|  |  |  |  |
| **<Other IR Controlled Sources>** | Add IR devices on the Input/Output tab for other IR controlled sources. Refer to the **Configurator Reference Guide** . |  |  |
|  |  |  |  |
| **Other Audio Devices / Interfaces** | **Name** | <User Defined> | Add Interfaces for any source that does not have a built-in interface |
|  | **Template** | <Select> |  |
|  | **Default Device** | <Select> | Select the RS-232 or IR controlled source for this interface |
|  |  |  |  |
| **Audio Zone Controllers** | **Name** | <User Defined> (Default: **Nuvo Essentia**) |  |
|  | **Device Type** | **Nuvo Essentia** |  |
|  | **Location** | <User Defined> (Not Required) |  |
|  | **Comm Device** | <Select> (Default: **Audio**) |  |
|  |  |  |  |
| **Sources** | **Name** | <User Defined> |  |
|  | **Source Device** | <Select> | Sources must be previously configured in order to allow selection. |
|  | **Source Volume** | <Select> (See Note 1) |  |
|  | **Show Source** | <Select> | Set to **No** for any inputs that are not used |
|  | **Source Icon** | <Select> | This icon appears on the source button in the Viewer Interface |
|  | **Display Name** | <User Defined> | This text appears on the source button in the Viewer Interface |
|  |  |  |  |
| **Zones** | **Name** | <User Defined> |  |
|  | **Display** | <N/A> | The Nuvo Essentia does not switch video |
|  | **Universal Receiver** | <Select> |  |
|  | **Configuration Interface** | <Select> |  |
|  | **<Sources List>** | <N/A> |  |
|  |  |  |  |
| **Tab Layout** | **Interface Tabs** | <Select> | Move any unused zones to the right into **Available Zones** to remove from the viewer |

## COMMON MISTAKES

1. Improper setup of the Nuvo.  Make sure you complete setup of the Nuvo equipment, and that it functions properly as a stand-alone system, before attempting to connect and control from the **g!** system.