Integration Note

Manufacturer:	Binary (SnapAV)
Model Number(s):	**B-100-HDMatrix-4x4, B-100-HDMatrix-8x8, B-300-HDMatrix-4x4, B-300-HDMatrix-8x8**
Core Module:	**g!** version 5.8 or newer required
Document Revision Date:	1/16/2013

Overview and Supported Features

The Binary B-100/B-300 HDMatrix 4x4s are 4 x 4 HDMI Video Controllers which switch four HDMI sources to any of four HDMI outputs. The B-100/B-300 HDMatrix 8 x 8s are 8 x 8 HDMI Video Controllers which switch eight HDMI sources to any of eight HDMI outputs. The B-300 versions add RJ45 connections to allow Cat5 cable connections to B-300-HDMATRIX-RCVRs. The switchers are controlled by the
g! software with an RS-232 serial connection.

THE FOLLOWING FEATURES ARE SUPPORTED:

Multiple Chassis Configuration: Multiple chassis can be configured. **Each chassis is added as a "stand-alone" video switcher.** Multiple chassis require the use of HDMI video splitters from the sources to the video matrixes.

THE FOLLOWING FEATURES ARE NOT SUPPORTED:

Control from HomeBrick/MultiBrick/Global Cache: The B-100/B-300 HDMatrixes cannot be controlled from HomeBrick/MultiBrick controllers or Global Caches.

Audio Control: The B-100/B-300 HDMatrixes can route audio using their HDMI connections, however, volume, DSP setting, etc., functions are not present in the B-100/B-300 HDMatrix chassis and therefore can't be controlled by the **g!** system.

IR Routing: The **g!** system does not support the internal IR routing capabilities of the B-100/B-300 HDMatrixes. IR routing is accomplished through the HCxx Controller.

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

Installation Overview

1. During the rough-in phase, install wires for the sources, amplifiers and displays for each zone.
2. Also during the rough-in phase, run Cat5 wiring from the location of the switch back to the HCxx controller for RS-232 communications. Refer to the **HCxx Installation Manual** for the RS-232 wiring code.
3. Install the switch, the sources, amplifier, displays and speakers.
4. Configure the switch using the Binary Configuration Utility software provided with the video switch.
5. Confirm proper video switching as a stand alone system.
6. Connect the **g!** system to the switch electrically. See the wiring diagram for more information.
7. Configure the **g!** system for the switch and confirm communication between the switch and the **Controller**. Refer to the **g!** Configurator Reference Guide for programming details.
8. Test the system by changing sources in a zone to confirm the correct source plays. Test source control for any sources that are to be controlled from the **g!** interface.

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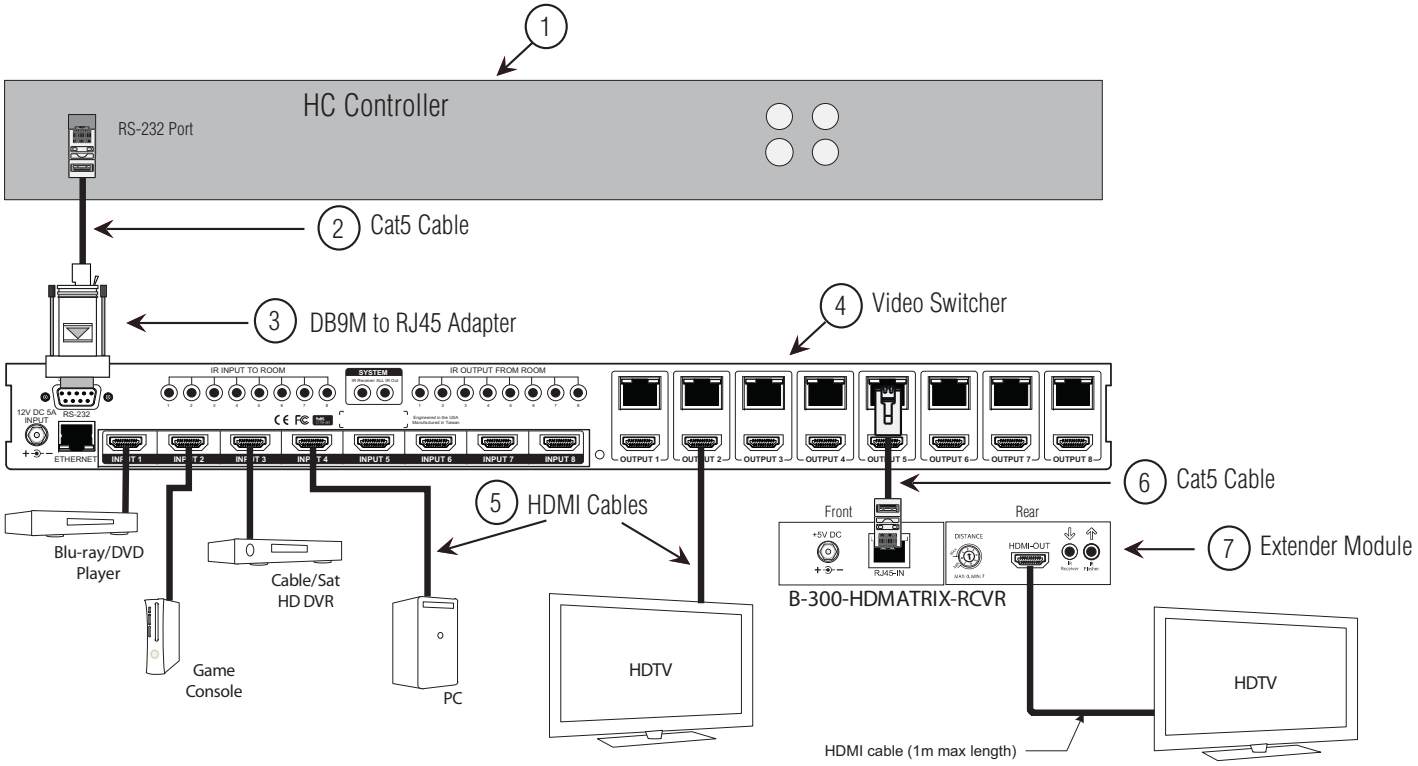
CONNECTION DIAGRAM



BILL OF MATERIALS (SERIAL CONTROL)

	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Controller	ELAN	HCxx	RS-232	RJ-45 Female	RS-232 Connections are to the HCxx.
2	Cat5 Cable Assembly	Installer	N/A	RS-232	RJ45 Male x RJ45 Male	
3	DB9 to RJ-45 Adapter	ELAN	HA-CB-307	RJ-45 Female x DB9 Male		
4	Video Switcher	Binary (SnapAV)	B-100/B-300 HDMatrix	RS-232		Only the 8 x 8 Switchers Support Ethernet Control.
5	HDMI Cable	Various	N/A	HDMI	HDMI	
6	Cat5 Cable Assembly	Installer	N/A	568B	RJ45 Male x RJ45 Male	
7	HDMI Cat5 Extender Module	Binary (SnapAV)	B-300-HDMatrix-RCVR		RJ-45 Female	Optional for use with the B-300 series switchers.

Note: Update the B-100/B-300 HDMatrix to the current firmware, which can be found at www.snapav.com.

g! CONFIGURATION DETAILS

The following table provides settings used in the **g!** Configurator. 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 Device	**Name**	<User Defined>	
	Type	Serial Port	
	Communication Type	Standard Connection	
	Location	<User Defined> (Not Required)	
	Comm 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 Devices / Interfaces	**Name**	<User Defined>	Add Interfaces for any source that does not have a builtin interface.
	Template	<Select>	
	Default Device	<Select>	Select the RS-232 or IR Controlled source for this interface.
Audio Zone Controllers	**Name**	<User Defined> (Default: SnapAV B11/B300 (4x4 or 8x8)	
	Device Type	SnapAV B11/B300 (4x4 or 8x8)	
	Location	<User Defined> (Not Required)	
	Comm Device	<Select>	
Sources	**Name**	<User Defined>	
	Source Device	<Select>	Sources must be previously configured to allow selection.
	Source Volume	<Select>	N/A
	Show Source	<Select>	Set to NO for any inputs that are not used.
	Source Icon	<Select>	This icon zppears on the source button for the viewer interface.
	Display Name	<User Defined>	This text zppears on the source button for the viewer interface.
Zones	**Name**	<User Defined>	
	Universal Receiver	<Select>	
	Display	<Select>	
	Configuration Interface	<Select>	
	<Sources List>	<N/A>	
Tab Layout	**Interface Tabs**	<Select>	Move any unused zones to the left into Available Zones to remove from the viewer.

CONFIGURATION NOTES

1. When controlling the B-100/B-300 HDMatrix serially, each switch requires its own connection to a different RS-232 port of the HCxx.

COMMON MISTAKES

1. Failure to add a Communication Device for each B-100/B-300 HDMatrix.
2. When using multiple B-100/B-300 HDMatrixes, selecting the incorrect Communication Device when assigning a B-100/B-300 HDMatrix to a Communication Device.