

5. Advanced Operation

For advanced operation, see Chapter 4 of the user manual.

NOTE: For advanced operation and the full user manual, go to [ftp://ftp.blackbox.com/anonymous/manuals/IVVG-HDMI_User_rev1.pdf](http://ftp.blackbox.com/anonymous/manuals/IVVG-HDMI_User_rev1.pdf)



© Copyright 2013. Black Box Corporation. All rights reserved. Black Box® and the Double Diamond logo are registered trademarks of BB Technologies, Inc. Any third-party trademarks appearing in this manual are acknowledged to be the property of their respective owners.

VG-HDMI, version 1

FREE! Live, 24/7 Tech Support is just 30 seconds away.
724-746-5500 | blackbox.com

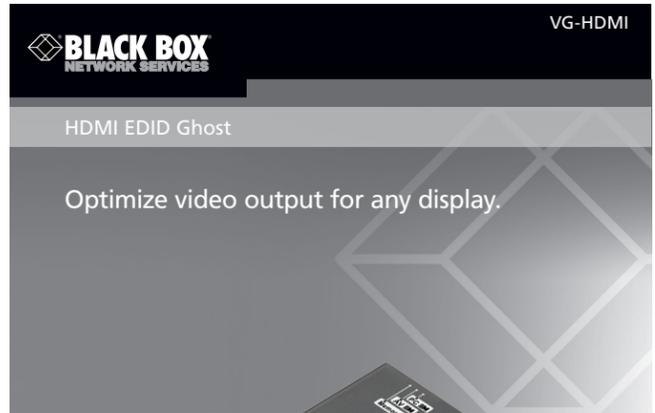
4. Configuration Tables

Table 4-1. Switch settings.

Function	Slide Switch	Rotary Switch	DIP Switch (1-6)
Copy EDID (Whole)	PC/AV	0 (Auto)	—
		1 (Manual)	—
	Memory	0-9, A-E (15 presets for storage)	—
Copy EDID (Video—Color)	PC/AV	E	3 (ON) and 4 (ON)
Copy EDID (Audio)	PC/AV	F	1 (ON) and 2 (ON)
	Memory	F	1 (ON) and 2 (ON) 1 (ON) and 2 (OFF) 1 (OFF) and 2 (ON) 1 (OFF) and 2 (OFF) (4 presets for storage)

Table 4-2. Rotary switch positions for PC (HDMI) Mode.

Position	Resolution
0	Auto
1	Manual
2	1024 x 768
3	1280 x 720
4	1280 x 1024
5	1366 x 768
6	1440 x 900
7	1600 x 900
8	1600 x 1200
9	1680 x 1050
A	1920 x 1080
B	1920 x 1200
C	1280 x 800
D	2048 x 1152
E	720 x 480 Learn color inventory
F	720 x 576 Learn audio inventory



Customer Support Information
Order toll-free in the U.S.: Call 877-877-BBOX (outside U.S. call 724-746-5500) • FREE technical support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746 • Mailing address: Black Box Corporation, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: www.blackbox.com • E-mail: info@blackbox.com

Chapter 1: Specifications; Chapter 2: Overview

1. Specifications

HDCP Compliance: Yes

Housing: Metal

Resolution (Maximum): Full HD: 1920 x 1080, 2048 x 1152

User Controls: (1) Push button: EDID Copy;

(1) Rotary switch: (16) default settings + (15) sets of inventory;

(1) Slide switch: PC/AV/Memory Mode selection;

(6) 2-Position DIP Switches: Positions 1 and 2: Audio, Positions 3 and 4: Color, Positions 5 and 6: Format

Connectors: Input: (1) HDMI female; Output: (1) HDMI female;

(1) 5-VDC barrel connector for power

Indicators: (1) Multiple-color Status LED

Power: 5-VDC power supply

Size: 0.9"H x 2"W x 3.2"D (2.2 x 5.1 x 8.1 cm)

Weight: 0.3 lb. (0.1 kg)

2. Overview

2.1 Features

EDID Ghost:

- Reads and stores (record) the EDID from the connected display to the video extension system.

- Handles different types of incoming EDID data reading.

- Stores up to 15 presets/records of EDID data.

EDID Emulation:

- Emulate EDID information to display the optimum video resolution.

- Provide a default EDID if a display's EDID is not available.

- Alternately, apply the default of the copied EDID for the connected display device.

2.2 What's Included

- (1) HDMI EDID Ghost
- (1) USB power cable
- (1) set of foot pads
- This Quick Start Guide

Chapter 2: Overview

NOTE: Use only good quality cables to avoid interference. Place cables away from fluorescent lights, air conditioners, and machines that can generate electrical noise.

Optional items:

- HDMI-to-DVI adapter for DVI applications.

2.3 Hardware Description

Figure 2-1 shows the HDMI EDID Ghost's front, back, side, and top panels. Table 2-1 describes their components.

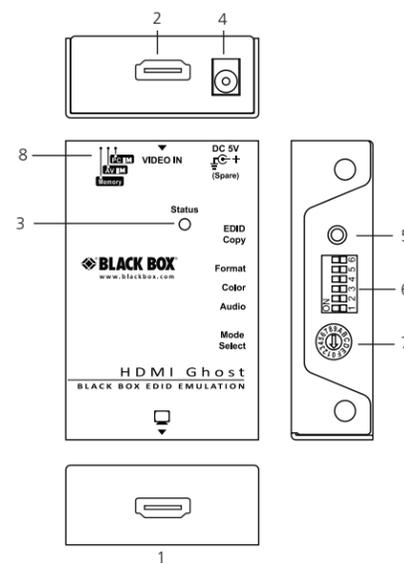


Figure 2-1. HDMI EDID Ghost.

Chapter 2: Overview; Chapter 3: Basic Operation

Table 2-1. HDMI EDID Ghost's components.

ID in Fig. 2-1	Component	Description
1	HDMI video connector	Connect the input side of the HDMI EDID Ghost to the monitor or switch.
2	HDMI video connector	Connect the output side of the Ghost to the PC.
3	LED indicator	Blue: Power on Red: Error Flashes three times: Configuring HDMI EDID Flashes twice: Configuring DVI EDID
4	Power jack*	Apply the proper power to the unit (optional).
5	Push button	EDID Copy button
6	DIP switch	System configuration.
7	Rotary switch	Resolution selection in PC/AV Mode. Store presets in Memory Mode.
8	Slide switch	Mode selection (PC/AV/Memory Mode).

3. Basic Operation

3.1 EDID Copy (EDID Ghost)

In some cases, display problems may occur because of incorrect EDID communication between the display monitor and the unit or inappropriate EDID data programmed by display manufacturers. This function allows the system to copy EDID from EDID-compliant displays. However, some devices may require system reboot after adjustment.

3.1.1 PC/AV/Memory Mode

For different applications, we recommend that you apply PC Mode to a desktop or laptop system. For a home theater AV application, use AV Mode because it may need more specific settings. In Memory mode, the Unit can store and perform the recorded video EDID information.

Chapter 3: Basic Operation

3.1.2 Inventory

An inventory is a storage system for accumulating a huge mass of EDID data. Users may copy and reserve your display's EDID in the unit. For different uses, the HDMI EDID Ghost provides delicate types of inventory, such as audio inventory, video-color inventory, and full EDID inventory. Once recorded, users can apply these EDID data to other displays.

Users may copy whole EDID information from EDID-compliant displays in Memory Mode. However, if you own advanced HDMI displays, like 7.1 channel Home Theater AV Receiver and Full HD monitors, when switching to a specific position, this function allows you to copy audio EDID from different HDMI monitors or amplifiers for advanced uses.

3.2 EDID Copy Operation Steps

Step 1. Set all switches to the correct position (see Table 4-1).

NOTE: According to different copy methods, the system provides 1, 4, or 15 records for copied EDID storage. These data can be applied to EDID Emulation. See Chapter 4, Advanced Operation, in the user manual for more details.

Step 2. Apply power to the unit (if the source cannot supply enough power).

Step 3. Connect display to Monitor Port (Video Out) on the unit and power on the display.

Step 4. Press the "EDID Copy" button and release the button RIGHT AFTER the LED flashes green.

Step 5. The LED flashes red and green alternately and then it lights blue, indicating that the copy is successful.

Otherwise, if the LED flashes RED, it means that a, b, and/or c listed below is true:

- The monitor is not properly connected.
- The monitor is not powered on.
- EDID data of the monitor is not applicable.

(The idle time-out is 20 seconds.)