

## 5. Specifications

Input/Output Connectors	
Input	HDMI Male, Micro USB Female (optional power)
Output	VGA DB15HD Female, 3.5 mm Female audio (analog)
Resolutions	
HDMI	Up to 1080p @60 Hz
VGA	Downstream up to 1080p @ 60 Hz 720p@60Hz
Operating Frequency	
HDMI Video Amplifier Bandwidth	1.65 Gbps /165 MHz
Environmental	
Operating Temperature	32 to 113° F (0 to +45° C)
Operating Humidity	10 to 85% RH (no condensation)
Storage Temperature	-14 to +176° F (-10 to +80° C)
Storage Humidity	5 to 95% RH (no condensation)
Power Requirement	
External Power Supply (Optional)	Micro USB: Min 5V/500ma
Regulatory Approvals	
Converter Unit	FCC,CE

© Copyright 2016, 2024. 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.

EN\_CABL\_Datasheet\_VA-HDMI-VGA-R2\_Rev1\_2403

## HDMI Male to VGA Female Adapter Dongle

### 1. Introduction

The HDMI Male to VGA Female Adapter Dongle (VA-HDMI-VGA-R2) enables you to convert a digital HDMI signal into an analog VGA signal and extract the audio signal from an HDMI signal through the 3.5-mm audio port. If the HDMI source can't supply enough power, you can connect a power adapter or computer to the Micro USB female port to supply power for the adapter.

### 2. Features

- Supports HDMI A and Micro USB input, VGA, and R/L audio output.
- Provides HDMI resolutions up to 1080p @ 60 Hz, with HDMI bandwidth up to 165 MHz / 1.65 Gbps per channel (6.75 Gbps for all channels combined).
- Enables analog audio format.
- Supplies USB bus power up to 2 W.
- Uses HDCP.

### 3. Package Includes

- One Dongle

### 4. Connecting the VA-HDMI-VGA-R2

Before installation, make sure all the devices you wish to connect are powered off.

1. Connect the VA-HDMI-VGA-R2 unit's HDMI A input to an HDMI source display.
2. Attach the VA-HDMI-VGA-R2 unit's VGA output to a VGA display with a VGA cable.
3. Link a headset and stereo video speakers to the VA-HDMI-VGA-R2 unit's output jack.
4. If the HDMI source can't supply enough power, you can connect the Micro USB port to a computer or power adapter.

#### **Contact Information**

Order toll-free in the U.S. or for FREE 24/7 Technical Support:  
Call 877-877-BBOX (outside U.S. call 724-746-5500)  
[www.blackbox.com](http://www.blackbox.com) • [info@blackbox.com](mailto:info@blackbox.com)