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› DEVMO GBS8200 Video Converter Board User Manual

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DEVMO Gonbes GBS8200 Video Converter Board User Manual

Model: GBS8200

1. INTRODUCTION

The DEVMO Gonbes GBS8200 is a versatile HD video converter board designed to transform various analog video signals (CGA, EGA, YUV, RGB) into a standard VGA output. This allows older arcade game boards and other video sources to be displayed on modern VGA monitors, including CRT, LCD, PDP, and projectors. It features automatic signal scanning, on-screen display controls, and true 24-bit A/D conversion for high-quality color reproduction.

2. SAFETY INFORMATION

- Ensure the power supply voltage matches the board's requirements (5V-12V).
- Do not expose the board to moisture or extreme temperatures.
- Handle the board with care to avoid damaging components.
- Disconnect power before making any connections or disconnections.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x CGA/EGA/RGB To VGA Game Video Converter Board (GBS8200)
- 1 x 6-pin Signal Wire
- 1 x 2-pin Power Supply Wire

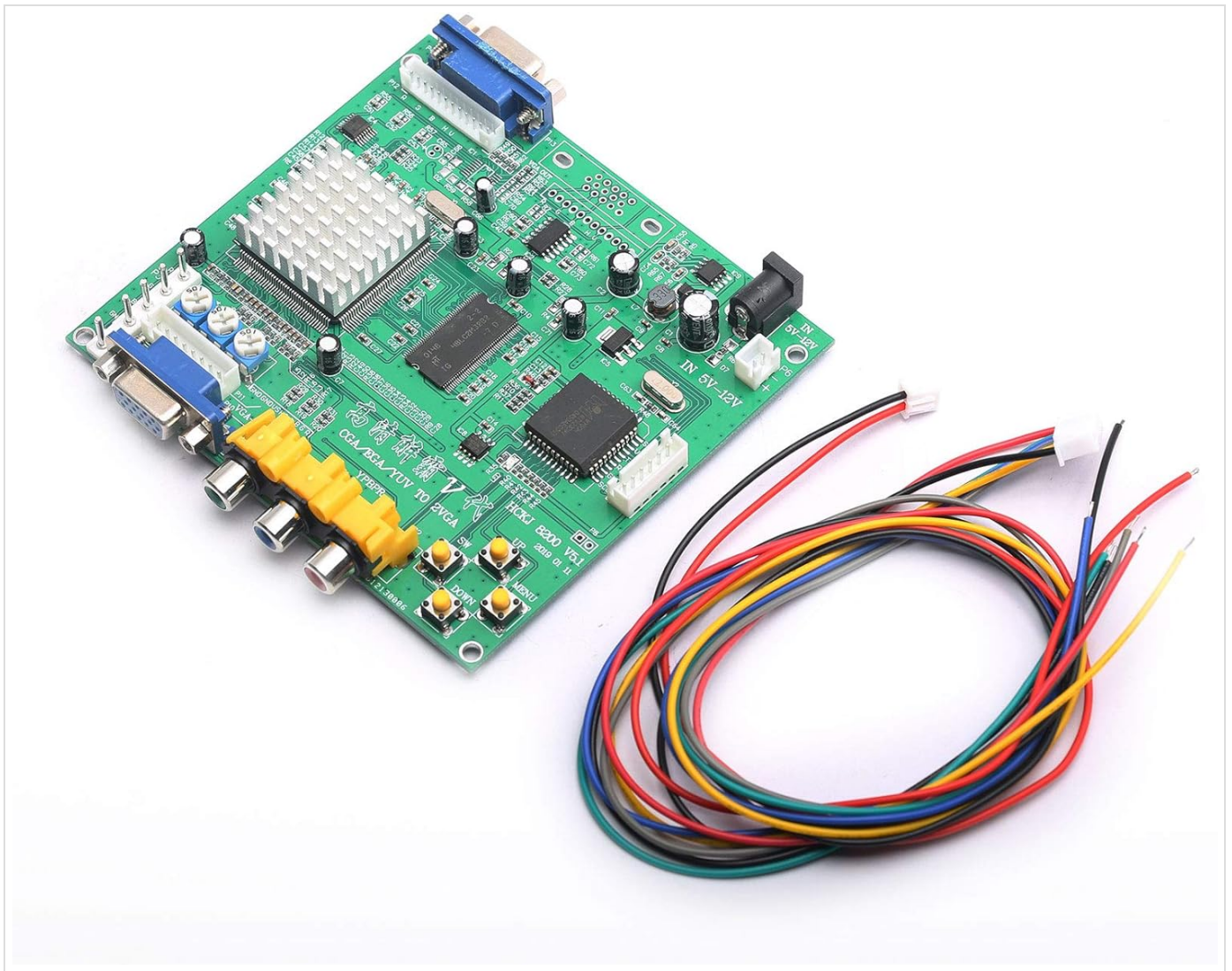


Image: The DEVMO GBS8200 video converter board shown with the included 6-pin signal wire and 2-pin power supply wire.

4. PRODUCT OVERVIEW

The GBS8200 board features various input and output ports, as well as control buttons for configuration. Familiarize yourself with the layout:

- **VGA Output Port:** Standard 15-pin D-sub connector for connecting to VGA monitors.
- **CGA/EGA/RGB Input:** Multiple pin headers for various analog RGB inputs.
- **YUV Component Input:** RCA connectors (Red, Green, Blue) for YUV component signals.
- **Power Input:** 2-pin connector for 5V-12V DC power.
- **Control Buttons:** Buttons for navigating the On-Screen Display (OSD) menu.
- **Potentiometers:** Adjustment knobs for fine-tuning color balance and other parameters.

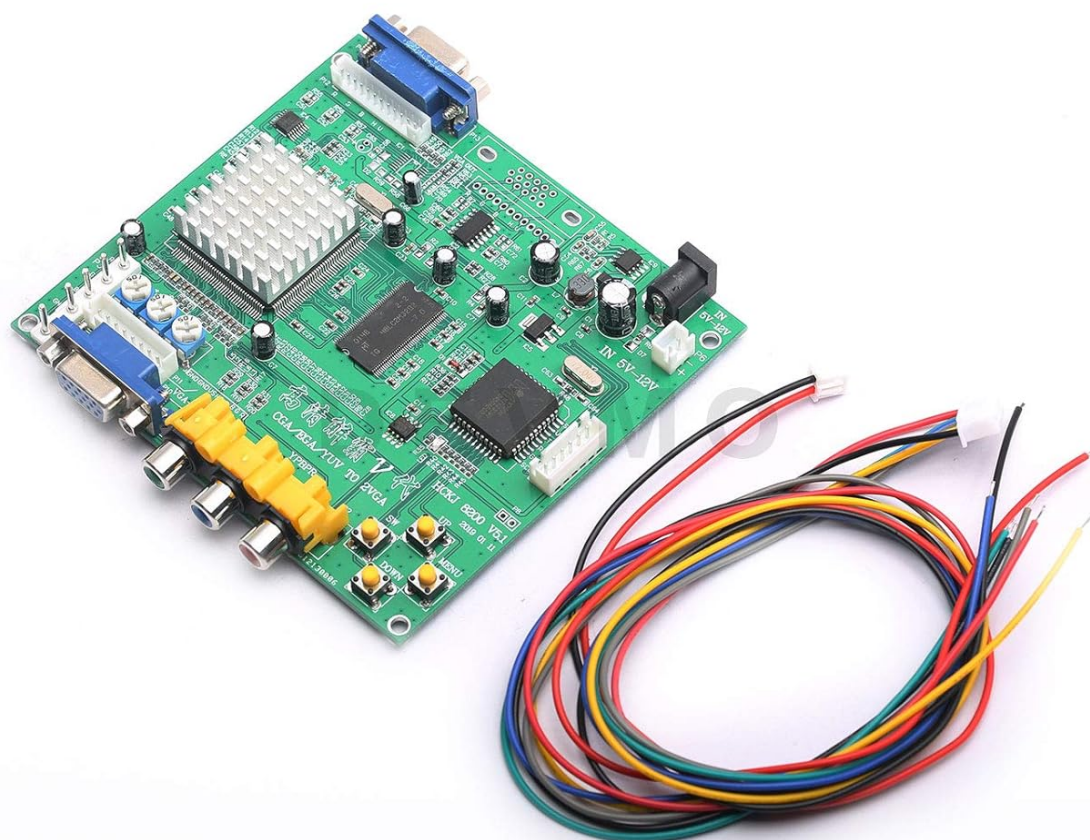


Image: Top-down view of the GBS8200 board, highlighting the VGA output, various input headers, and control buttons.

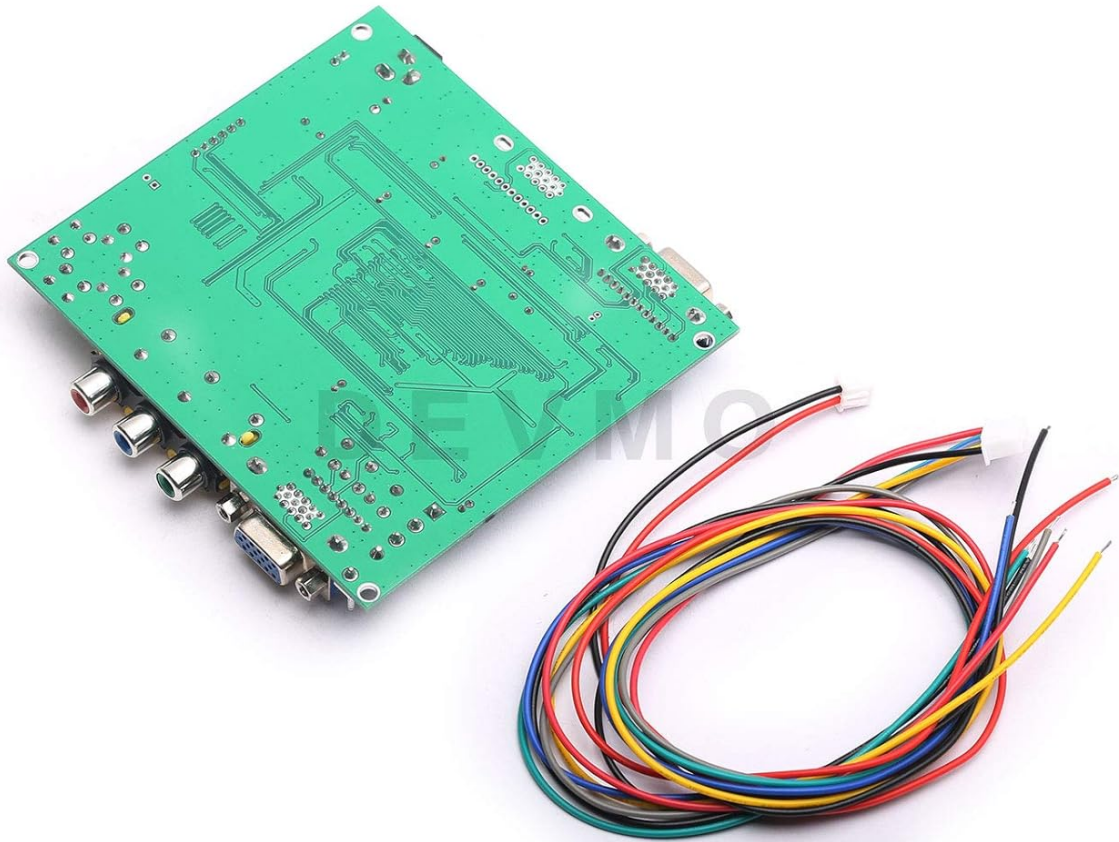


Image: Underside view of the GBS8200 board, showing the circuit traces and mounting points.

5. SETUP AND INSTALLATION

Follow these steps to set up your GBS8200 converter board:

1. **Connect Power:** Use the provided 2-pin power supply wire to connect a 5V-12V DC power source to the board's power input. Ensure correct polarity.
2. **Connect Input Signal:**
 - For CGA/EGA/RGB signals, connect your source to the appropriate pin headers using the 6-pin signal wire or custom wiring.
 - For YUV Component signals, connect your source to the Red, Green, and Blue RCA jacks.
3. **Connect VGA Output:** Connect a standard VGA cable from the GBS8200's VGA output port to your VGA monitor (CRT, LCD, PDP, Projector).
4. **Power On:** Once all connections are secure, apply power to the GBS8200 board and your video source.

5. **Adjust Settings:** The board will automatically scan for the input signal. If the image is not optimal, use the On-Screen Display (OSD) menu and potentiometers to adjust image position, zoom, and color balance.

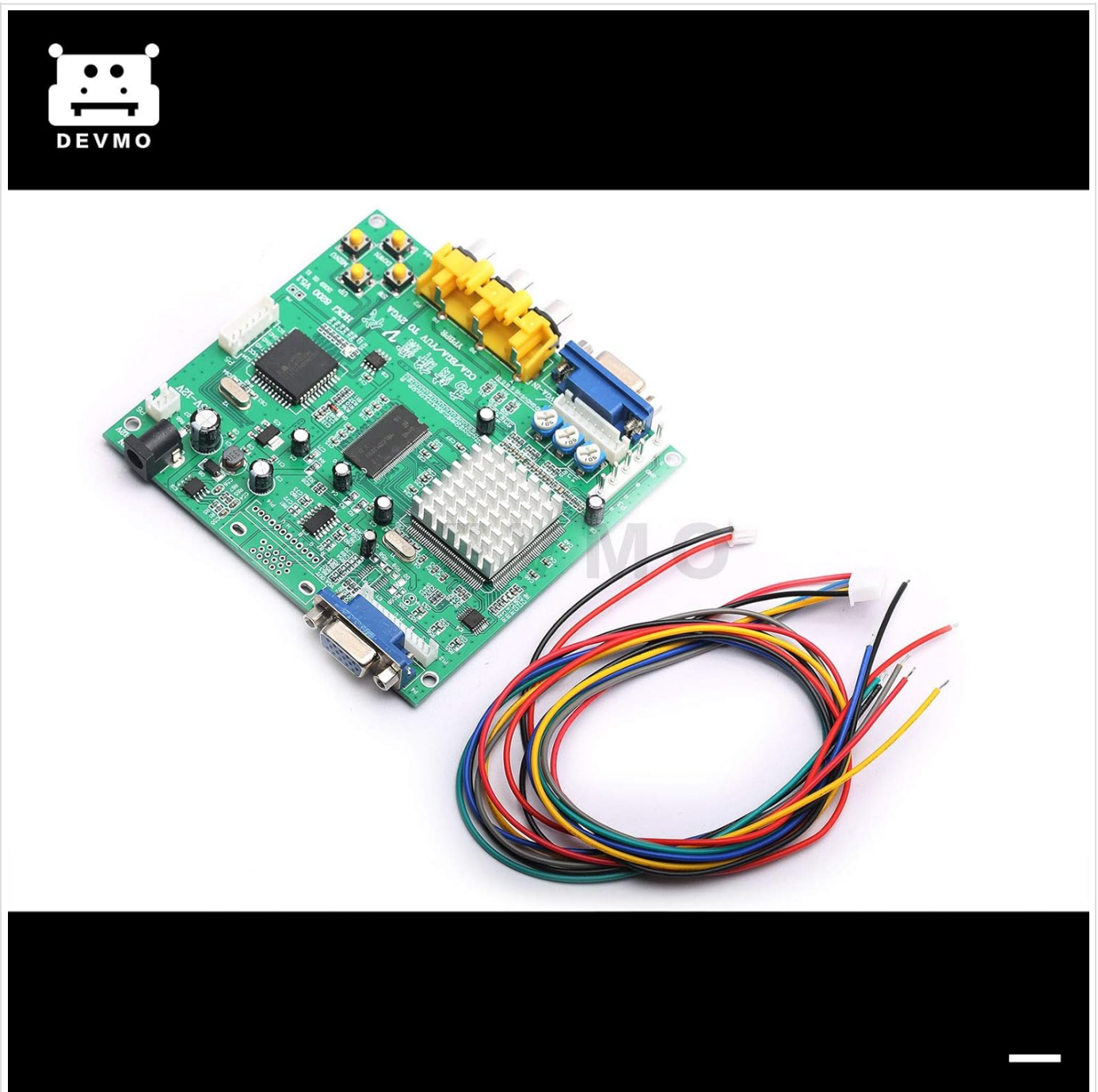


Image: An angled view of the GBS8200 board, illustrating the various connection points for power, input signals, and VGA output.

6. OPERATING INSTRUCTIONS

The GBS8200 features an On-Screen Display (OSD) menu for configuration. Use the small buttons on the board to navigate and adjust settings.

6.1. OSD Menu Navigation

- **MENU:** Press to enter or exit the OSD menu.
- **UP/DOWN:** Navigate through menu options.
- **LEFT/RIGHT:** Adjust selected parameter values.
- **AUTO:** Automatically adjusts image settings for optimal display.

6.2. Key Features

- **Automatic Signal Scan:** Automatically detects and converts CGA (15KHz), EGA (24KHz), and 31KHz RGB signals, as well as YUV Component signals (480i, 576i, 720i, 1080i, 480p, 576p, 720p, 1080p).
- **VGA Output Resolutions:** Supports various VGA output resolutions including 640x480, 800x600, 1024x768, and 1360x768.
- **Image Control:** Allows for precise control over image position and zoom.
- **Color Conversion:** Features a true digital 24-bit A/D converter for accurate 16.7-million color conversion.

7. MAINTENANCE

The DEVMO GBS8200 board requires minimal maintenance. Keep the board clean and free from dust. Use a soft, dry cloth to gently wipe the surface. Do not use liquid cleaners or solvents. Ensure proper ventilation to prevent overheating, especially during extended operation.

8. TROUBLESHOOTING

- **No Signal on Monitor:**
 - Ensure all cables (power, input, VGA output) are securely connected.
 - Verify that the input signal source is active and providing a valid signal.
 - Check the power supply to the GBS8200 board.
 - Try pressing the "AUTO" button on the board to initiate signal detection.
- **Distorted or Incorrect Colors:**
 - Adjust the potentiometers on the board for RGB color balance.
 - Ensure the input signal type (CGA/EGA/YUV/RGB) is correctly configured if manual selection is available.
- **Image is Off-Center or Incorrect Size:**
 - Use the OSD menu to adjust image position (H-Position, V-Position) and zoom.
 - Press the "AUTO" button for automatic adjustment.
- **Board Not Powering On:**
 - Check the power supply voltage and current.
 - Verify the power cable connection and polarity.

9. SPECIFICATIONS

- **Input Signals:** CGA (15KHz), EGA (24KHz), 31KHz RGB, YUV Component (480i, 576i, 720i, 1080i, 480p, 576p, 720p, 1080p)
- **Output Signal:** VGA (640x480, 800x600, 1024x768, 1360x768)
- **Power Input:** DC 5V-12V
- **A/D Converter:** True digital 24-bit
- **OSD Language:** English and Chinese
- **Supported Monitors:** CRT, LCD, PDP, Projector (with VGA interface)
- **Package Dimensions:** 5.39 x 5.28 x 1.26 inches
- **Item Weight:** 5.3 ounces
- **Manufacturer:** DEVMO

- **Model:** GBS8200

10. WARRANTY AND SUPPORT

For warranty information and technical support, please contact your retailer or the manufacturer, DEVMO. Refer to your purchase documentation for specific warranty terms and contact details.

