

DVI-RGB 200 Setup Guide

This guide provides instructions for an experienced installer to set up and operate Extron® DVI-RGB 200 DVI to Analog RGB Video Interface.

IMPORTANT:
Refer to www.extron.com for the complete user guide and installation instructions before connecting the product to the power source.

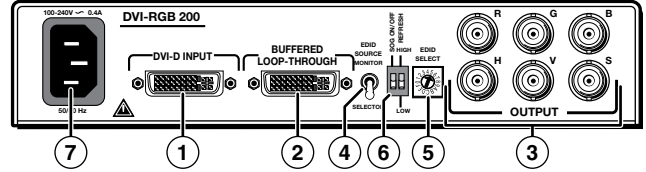
Installation

Step 1 — Mounting

Turn off or disconnect all equipment power sources and mount the interface as required.

Step 2 — Connections and Initial Settings

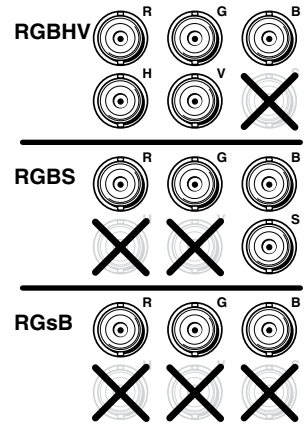
- DVI-D Input connector** — Connect a single link of direct digital video to this DVI-I connector using the included cable.
- Buffered Loop-through connector** — If desired, connect a direct digital local monitor to this DVI-I connector.



NOTE: Use only cables specifically intended for DVI interfaces. Use of non-DVI cables or modified cables can cause the DVI-RGB 200 to not operate correctly.

- Output connectors** — Connect an RGB display to these female BNC connectors. Connect the BNCs as shown at right for the desired RGB video format.

NOTE: Ensure that the SOG DIP switch (6) is turned off (down) for RGBHV and RGBS video.
Ensure that the SOG DIP switch is turned on (up) for RGSB video.



- EDID Source switch** —
Set this switch to the Monitor (up) position to connect the DDC channel between the direct digital video source and the local monitor.
Set this switch to the Selector (down) position to connect the DDC channel between the direct digital video source and the built-in DVI-RGB 200 EDID logic.
- EDID Select** — If the EDID Source switch (4) is in the Selector (down) position, set this switch to the appropriate position to select the desired video resolution. Use the Refresh DIP switch (6) to select the refresh rate. The table at right identifies the switch positions and the associated resolutions and vertical refresh rates.

EDID Select Switch		Refresh DIP Switch		EDID Select Switch		Refresh DIP Switch	
Pos.	Resolution	▼ Dwn	▲ Up	Pos.	Resolution	▼ Dwn	▲ Up
0	User EDID	EDID capture		8	1366x768	50 Hz	60
1	800x600	50 Hz	60	9	1400x1050	50 Hz	60
2	1024x768	50 Hz	60	A	1440x900	50 Hz	50
3	1280x720	50 Hz	60	B	1600x1200	50 Hz	60
4	1280x768	50 Hz	60	C	1680x1050	50 Hz	50
5	1280x800	50 Hz	60	D	1920x1080	50 Hz	60
6	1280x1024	50 Hz	60	E	1920x1200	50 Hz	60
7	1360x768	50 Hz	60	F	N/A		

- DIP switches** —
SOG (Sync on Green) On/Off switch — Set this switch to the On (up) position to enable SOG for RGSB video. Set this switch to the Off (down) position to disable SOG for RGBS or RGBHV video.

Refresh switch —
If the EDID Source switch (4) is in the Selector position (down) and the EDID select switch (5) is in position 1 through F position, set this switch either up or down to select the refresh rate of the selected output. See the table at right.

If the EDID Source switch (4) is in the Selector (down) position and the EDID select switch is in position 0, set this switch up to capture the EDID data from the connected Buffered Loop-through monitor. See [Capturing a User-recorder EDID](#).

- AC power connector** — Plug a standard IEC power cord into this connector to connect the interface to a 100 to 240 VAC, 50 Hz or 60 Hz power source.

DVI-RGB 200 Setup Guide (Continued)

Operation

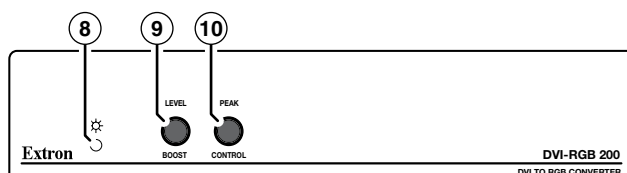
Apply power to the devices in the following order: 1) DVI-RGB 200, 2) display device, 3) input device. After all devices are powered up, the system is fully operational.

If any problems are encountered, verify that the cables are routed and connected properly. If your problems persist, call the Extron S3 Sales & Technical Support Hotline that is closest to you, at the number shown below.

- NOTES:**
- High-bandwidth Digital Content Protection (HDCP) is an encryption method that protects copyrighted digital entertainment material that uses DVI video.
 - The DVI-RGB 200 cannot respond to the HDCP decryption key. When the DVI input is HDCP encrypted, the output of the DVI-RGB 200 RGB is blank.
 - The computer reads the DDC on power up to determine the direct digital video resolution and refresh rate to output. Ensure that the local DVI monitor and the RGBHV monitor can both display the selected resolution and refresh rate, otherwise images may be distorted or missing.
 - Ensure that the computer and local monitor are connected to the DVI-RGB 200, and the DVI-RGB 200 and local monitor have power applied, before applying power to the computer. If the other devices are not turned on before the computer is powered on, the image will not appear.

Front Panel Controls and Indicator

NOTE: Level Boost and Peaking have no effect on the DVI output of the Buffered Loop-through connector.

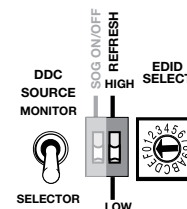


- ⑧ **Power LED** — The two-color Power LED lights amber or green:
- Amber** when the DVI-RGB 200 is receiving power but no DVI input signal is applied.
 - Green** when the DVI-RGB 200 is receiving power and a DVI input is present.
- ⑨ **Level Boost control** — The Level Boost control alters the brightness of the picture on the RGB output. Judge the adjustment visually by looking at the display.
- At the minimum level setting (the counterclockwise limit of this control), the interface outputs video at 0.7 Vp-p.
 - At the maximum level setting (the clockwise limit of this control), the interface outputs video at 1.45 Vp-p.
- Select a level setting of 0.7 V and above to compensate for the signal level decrease that occurs with long cables. Set the level at the maximum setting for cable lengths over 500 feet.
- ⑩ **Peak(ing) control** — The Peaking control affects the sharpness of the RGB output. Increased peaking can compensate for detail (mid- and high-frequency) loss from low bandwidth or long cables. The minimum setting (counterclockwise limit) provides no peaking. The maximum setting (clockwise limit) provides 100 percent peaking.

Capturing a User-recorded EDID

Record the EDID from a display connected on the Buffered Loop-through connector as follows:

1. Set the rear panel EDID Source switch to the Selector (down) position.
2. Set the Output Resolution switch to the 0 position.
3. Change the Refresh dip switch to on (up).



NOTE: The front panel Power LED lights amber whether the DVI-D Input connector is receiving a signal or not.

4. Connect the **unpowered** display device to Buffered Loop-through connector.
5. Power on the display device. The DVI-RGB 200 copies the EDID of the display connected in step 4 to its memory. After the EDID is successfully copied, the front panel Power LED lights green.
6. Set the Refresh DIP switch to off (down).

Extron USA - West Headquarters	Extron USA - East	Extron Europe	Extron Asia	Extron Japan	Extron China	Extron Middle East
+800.633.9876 Inside USA/Canada Only +1.714.491.1500 +1.714.491.1517 FAX	+800.633.9876 Inside USA/Canada Only +1.919.863.1794 +1.919.863.1797 FAX	+800.3987.6673 Inside Europe Only +31.33.453.4040 +31.33.453.4050 FAX	+800.7339.8766 Inside Asia Only +65.6383.4400 +65.6383.4664 FAX	+81.3.3511.7655 +81.3.3511.7656 FAX	+400.833.1568 Inside China Only +86.21.3760.1568 +86.21.3760.1566 FAX	+971.4.2991800 +971.4.2991880 FAX