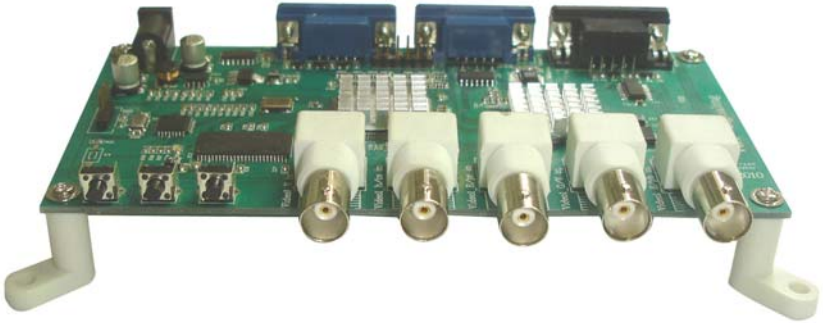


RGB, MDA, CGA, EGA to VGA Converter (MODEL IVC-809)



Operation Manual

**VERSION 2.0
2010-08**

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IVC-809 is based on the old industrial video converter launch of an innovative industrial Video Converter, IVC-809 industrial video converter of industrial fully automated operation.

Quick reference for IVC-809:

Input Signal	Type	MDA, CGA, EGA, RGB, RGB Sog, RGBS, RGBHV, YPbPr, Mono/Colour
	Interface	9 PIN, 3 PIN, 5 PIN, 6 PIN, 7 PIN, 15 PIN, 20 PIN, 24 PIN, 25 PIN, BNC port...
	Parameter	Analog: 0.5-1.0 / TTL: 3-5V 75 ohm / 750 ohm Scanning: Progressive/Interlaced
Output Signal	Type	Standard VGA/SVGA, 800*600/60hz
	Interface	Standard 15Pin D-SUB
Power	DC 5-12V 1.0A / Consumption- 2.0W maximum	

IVC-809 Size:155MM*100*15mm

IVC-809 Performance and characteristic

1. MDA, CGA, EGA, RGB, RGB SOG, RGBS, RGB cs, RGBHV, YUV Signal auto scan (Horizontal Scanning Frequency: 12K-40K, Vertical Scanning Frequency: unconstrained).
2. Vertical Resolution: 160-600 lines, auto scan.
3. Horizontal resolution: unconstrained, auto scan.
4. Supports sync separation, CS composite sync, SOG green sync, YPbPr (SOY) sync.
5. Supports monochrome, Grayscale, color signal input.

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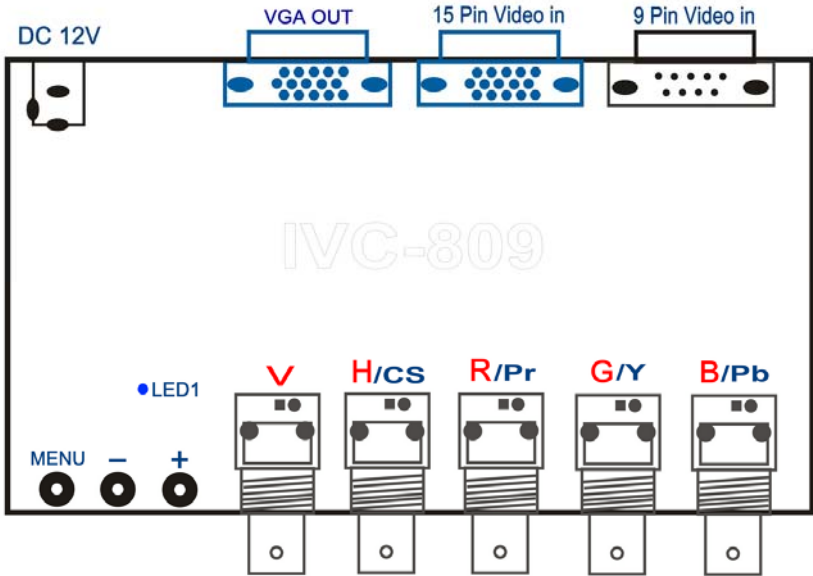
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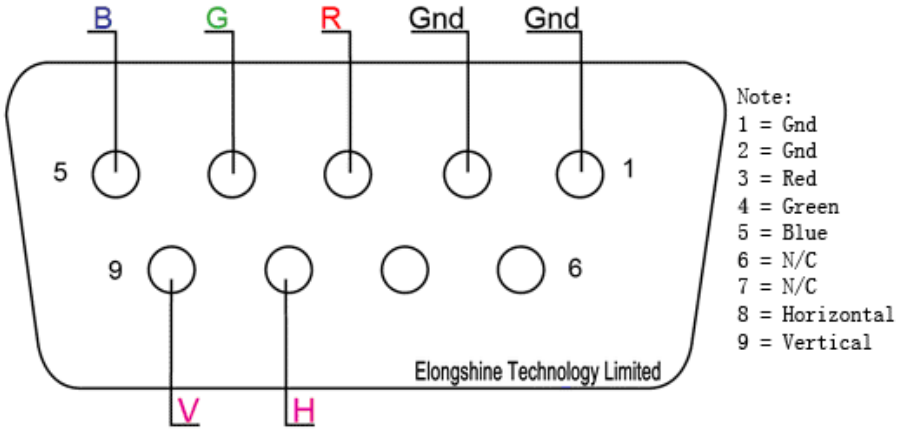
Quick reference for IVC-809 interface



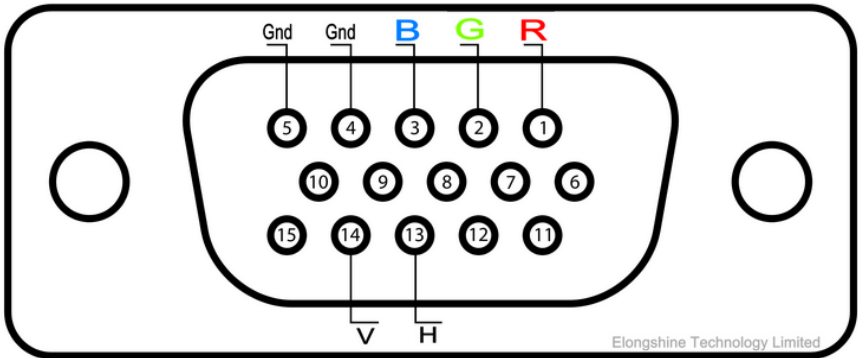
DC12V:	Power Supply, DC 5-12V/1.0A.
VGA OUT:	Standard VGA/SVGA,800*600/60hz
15 Pin Video in:	15 Pin D-SUB input
9 Pin Video in:	9 Pin D-SUB input
MENU:	To assess OSD menu.
+, -:	To adjust the OSD menu.
V:	Vertical Scanning Frequency.
H/CS:	Horizontal Scanning Frequency, or composite sync.
R/Pr:	Red signal, or the color of the PR.
G/Y:	Green signal, or chromatic aberration of Y.
B/Pb:	Blue signal, or chromatic aberration of Pb.
LED1:	Power LED.

Note: 9 pin D-SUB, 15 pin D-SUB and BNC input signal, you can choose one of them.

9 Pin D-SUB Video In Reference



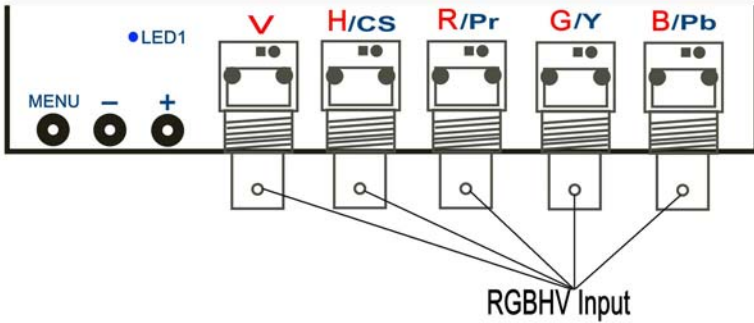
15 Pin D-SUB Video In Reference



Note:

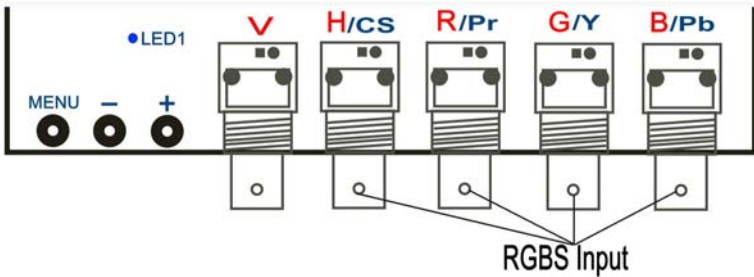
1=Red, 2=Green, 3=Blue, 13=Horizontal, 14=Vertical
 4, 5, 6, 7, 8, 10, 11 = Gnd

Connection Diagram



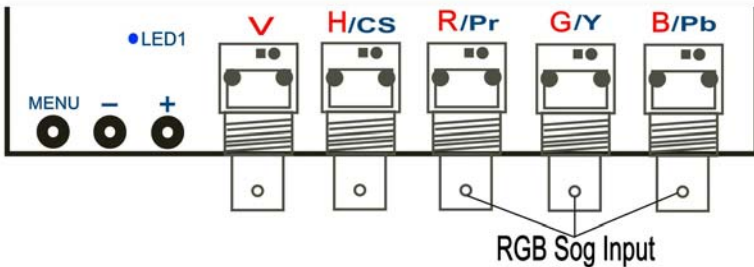
RGBHV Signal Input

5 BNC port, Connection R, G, B, H, V. / Monochrome Connection G, H, V



RGBS Signal Input

4 BNC port, Connection R, G, B, S. / Monochrome Connection G, S



RGB Sog Signal Input

3 BNC port, Connection R, G, B. Monochrome Connection G

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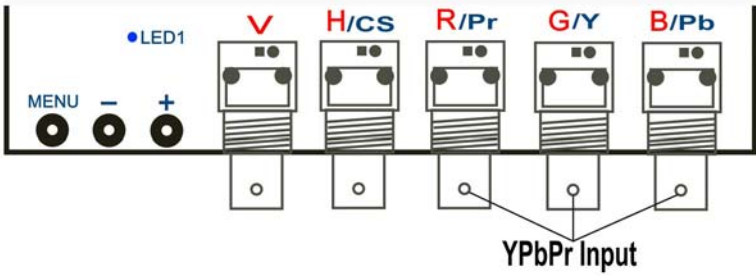
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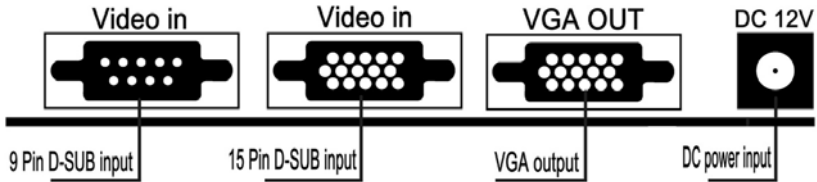
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Connection Diagram



YPbPr Signal Input

3 BNC port, Connection Pb、Y、Pr. Monochrome Connection Y



9 PIN, 3 PIN, 6 PIN, 7 PIN, 14 PIN, 20 PIN, 24 PIN, 25 PIN Signal Input
Select RGBHV wire connection, Please follow the 9 Pin D-SUB Reference.

Note: 9 pin D-SUB, 15 pin D-SUB and BNC input signal, you can choose one of them.

IVC-809 OSD

一般设定 (Setting)	高级设定 (Advance)
水平位置 (H_Position)	+09
水平大小 (Width)	-59
垂直位置 (V_Position)	+06
垂直大小 (Height)	+26
相位调节 (Phase)	+15
视频源类型 (Style)	RGB (A)
同步信号 (Sync)	SEPARATE(HV)
输入阻抗 (Resistance)	75 Ω
扫描方式 (Scanning)	Interlaced
退出 (Exit)	
视频源信息 (Info) HS 31.74KHz VS 060.4Hz V2.0	

1. H_Position: Moves the position of the display area on the screen.
2. Width: adjust the width of the menu.
3. V_Position: Moves the position of the display area on the screen vertically.
4. High: Adjust the height of the menu.
5. Phase: Adjust the phase of the menu.
6. Style: Signal style, RGB(A) Analog, RGB(D) Digital TTL,YUV.
7. Sync: Signal Sync mode: Separate (HV), Composite(S), SOG, SOY.
Automatic recognition of video input sync, or custom of video input sync.
8. Resistance: Input impedance: 75 ohm or 750 ohm.
9. Scanning: Interlaced or Progressive.
10. Exit: Save and Exit.
11. 15 seconds, don't press any key, the menu automatically and exit. (No signal input, the OSD menu will display)

IVC-809 Control buttons

- 1、 Menu: To access OSD menu.
- 2、 +, -: To adjust the OSD menu.

Using the Screen Adjustment Menu (OSD: On Screen Display)

STEP 1

Connected to signal, no display or display color is not correct, adjust the Signal style (RGB(A) Analog/RGB(D) Digital TTL/YUV).

STEP 2

IVC-809 can automatically identify the sync signal, if the display distortions that need to manually adjust the sync signal (Separate (HV) / Composite (S) / SOG, SOY).

STEP 3

If the screen shows elongated, and the overflow to the bottom of the screen, choose the scanning mode adjusted: Progressive, or screen display is still only half of the monitor, choose the scanning mode to adjust to: interlaced.

STEP 4

Adjust the horizontal position, horizontal size, vertical position, vertical size of the item, adjust the monitor to display properly.

STEP 5

Input impedance: Select the correct input impedance.

STEP 6

Adjustment the phase until the display clearly.

STEP 7

Save and exit.