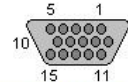29 pin DVI female connector
at the graphics card

15 pin highdensity D-SUB female connector
at the monitor

Most computer graphics cards nowadays does not have a Video Graphics Array connector. Some of them outputs the RGBHV (used in VGA) through their Digital Video Interface. If a graphics card has a DVI-I connector, but no VGA connector, it is likely to output VGA through DVI-I. Here we will show you how you can wire a DVI-I to VGA passive adapter. PLEASE NOTE: This scheme only works for DVI-I connectors. DVI-I carries both digital and analog RGB. DVI-D does not carry any analog RGB signal at all, so it is not possible to convert it to VGA without using an active adapter.

DVI-I Pin #	DVI-I Pin Name	Direction	VGA Pin #	VGA Pin Name	Description
C1	Analog red	-->	1	RED	Red video
C2	Analog green	-->	2	GREEN	Green video
C3	Analog blue	-->	3	BLUE	Blue-video
15	Ground	<--	4	ID2/RES	Formerly Monitor ID bit 2, reserved since E-DDC
15	Ground	<--	5	GND	Ground (HSync)
C5	Analog ground	<--	6	RED_RTN	Red return
C5	Analog ground	<--	7	GREEN_RTN	Green return
C5	Analog ground	<--	8	BLUE_RTN	Blue return
14	+5 V	-->	9	KEY/PWR	Formerly key, now +5V DC
15	Ground	<--	10	GND	Ground (VSync, DDC)
15	Ground	<--	11	ID0/RES	Formerly Monitor ID bit 0, reserved since E-DDC
7	DDC data	-->	12	ID1/SDA	Formerly Monitor ID bit 1, I²C data since DDC2
C4	Analog horizontal sync	-->	13	HSync	Horizontal sync
8	Analog vertical sync	-->	14	VSync	Vertical sync
6	DDC clock	-->	15	ID3/SCL	Formerly Monitor ID bit 3, I²C clock since DDC2