

R.G.B. 34 PIN FUNCTION TABLE

PIN No	INPUT/OUTPUT SIGNAL	FUNCTION
1	+5V Output	5V \pm 5% 100mA MAX
2	+5V Output	5V \pm 5% 100mA MAX
3	GND	Audio R-IN GND
4	GND	
5	GND	
6	GND	Video Out GND
7	GND	Audio L-In GND
8	GND	R-Input GND
9	GND	G-Input GND
10	GND	B-Input GND
11	R ϕ (TTL) Input	TTL Red Signal (secondary)
12	G ϕ (TTL) Input	TTL Green Signal (Secondary) Intensity (At 16 colors)
13	B ϕ (TTL) Input	TTL Blue Signal (Secondary)
14	GND	
15	GND	
16	GND	
17	Open Terminal	
18	EXT/INT Sync Select	High state (open): External sync signals fed to pins 30, 31 used for synchronization. Low state (ground): synchronization obtained internally from video signal fed to VIDEO 1 IN. Inputs to pin 32, (superimpose) must be high.
19	Open Terminal	
20	Audio Right Input	0.4 Vrms, 47K ohms
21	TTL/ANALOG Switch	High state (open): ANALOG mode (R.G.B input, pin 29 blanking input). Low state (ground): TTL mode (only operative when the front panel TTL/ANALOG SW is at ANALOG.
22	V-MODE Switching	V HEIGHT selection for IBM PGA mode (H: 480 Lines, L: 400 Lines).
23	Video Output	1Vp-p/75 ohm signal output
24	Audio Left Input	0.4Vrms
25	R-IN (ANALOG/TTL) Red signal input	1 Vp-p/75 ohm (ANALOG) or TTL input is selected by pin 21 or the Front Panel ANALOG/TTL switching
26	G-IN (ANALOG/TTL) Green signal input	
27	B-IN (ANALOG/TTL) Blue signal input	
28	Intensity Input	Connected in parallel to pin 12 G ϕ . Half tone at "H" in TTL 16 color mode.
29	Blanking Input (75 ohm or TTL input)	High: RGB, Low: Video. However only effective when pin 32 (superimpose) is High.
30	H Sync Input	ANALOG/TTL, positive, negative compatibility 0.7 - 5Vp-p.

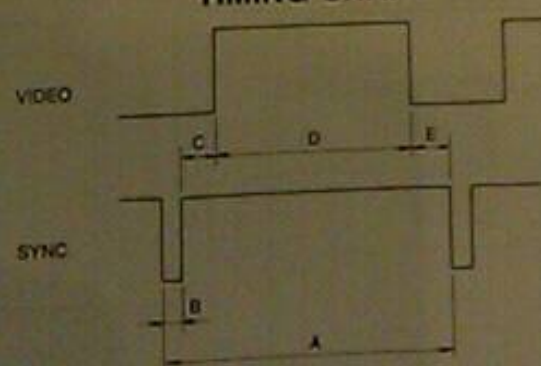
PIN No	INPUT/OUTPUT SIGNAL	FUNCTION
31	V Sync, C Sync Input	ANALOG/TTL, positive, negative compatibility 0.7 ~ 5Vp-p.
32	Superimpose	Enters High when there is an input to pin 29 (blanking).
33	RGB/Normal Select	High state (5 ~ 12V): RGB is selected (irrespective of front SW setting). Low state (open): RGB or VIDEO mode is selected with front SW.
34	Audio Input Select	High state (open): Audio input from pins 20, 24. Low state (ground): Audio input from VIDEO 1 input.

SIGNAL TABLE FOR 34 PIN RGB

		A	B	C	D	E	Polarity
CGA	H _μ S	63	4.2	7.2	45	6.6	+
	V _{ms}	16.4	0.075	1.525	12.6	2.2	
EGA	H _μ S	45.5	4.9	1.6	39	0	- (+)*
	V _{ms}	16.68	0.6	0.08	16	0	
PGA 400	H _μ S	33	4.5	2.8	25.6	0.1	- **
	V _{ms}	16.6	0.07	2.12	13.05	1.36	
PGA 480	H _μ S	33	4.5	2.8	25.6	0.1	- **
	V _{ms}	16.6	0.07	0.63	15.67	0.03	

- * (+) At 16 colors only.
 ** - At mixed sync signal.

TIMING CHART



WARNING: When using RGB mode: