

# PC/HDTV Pattern Generator

- ID# 633



**Operation Manual**

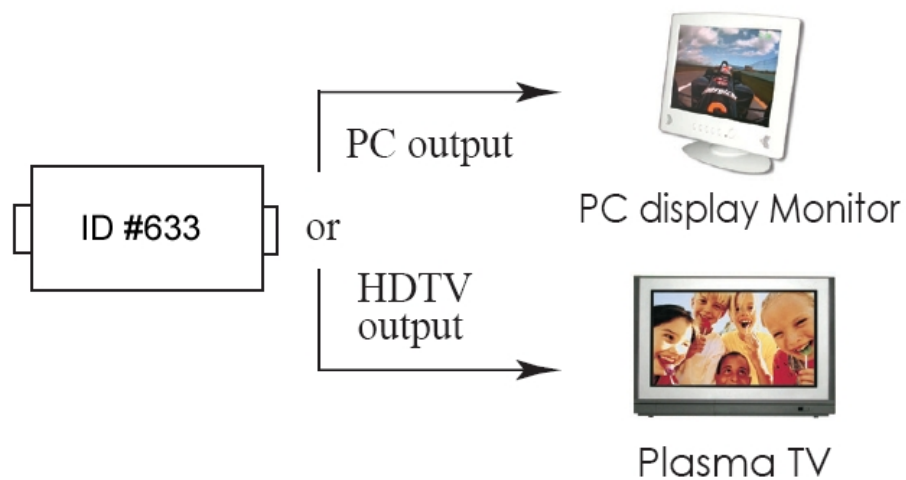
## Introduction

A Video Pattern Generator with a wide variety of PC/HDTV pattern options which provide stable test signals. It provides over 27 different test patterns that can be used as an industrial-standard signal source for testing, broadcasting and troubleshooting. Output format is analog RGBHV/YPbPr via HD-15 VGA connector.

## Features

- - The output format is analog RGBHV/YPbPr via HD-15 VGA connector
- - Provides a wide range of PC/HDTV output resolutions
- - Generates 27 test patterns including most useful test patterns in Video/PC industry, such as Color bar, Multiburst, Circle, Crosshatch
- - OSD indicates output resolution and refresh rate
- - Output can be reset to one of the two factory default modes : 1024x768 or 720p
- - Selectable output refresh rate up to 85 Hz
- - Compact size, sturdy metal case
- - Easy to operate push buttons

## Connector Block Diagram



## Operation Controls and Functions

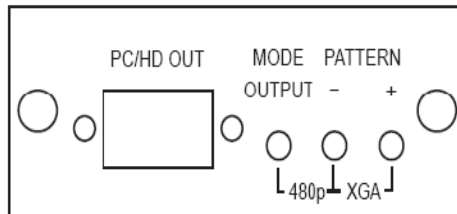
**Mode:** Select the output resolution.

**+ or - :** Select the test pattern signal such as color bar, staircase, multiburst.

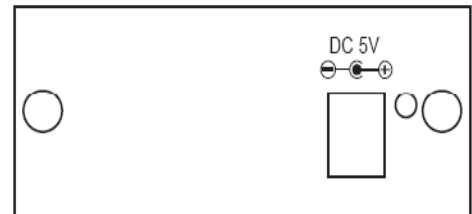
Press " mode, - " : Reset the output resolution to 480p / color bar.

Press " - , + " : Reset the output to XGA / color bar.

### Front Panel



### Rear Panel



## Output pattern

NO	Signal Content	NO	Signal Content
1	Color bar	15	Crosshatch 1
2	Color bar and Multiburst	16	Circle 1
3	8-setup Greyscale	17	Crosshatch 2
4	8-setup Greyscale(mirror)	18	English characters H
5	Checkerboard	19	English characters E
6	Dynamic Purity	20	Chinese 鷹
7	White	21	Chinese 慧
8	Yellow	22	Chinese 龍
9	Cyan	23	Burst 1
10	Green	24	Burst 2
11	Magenta	25	Burst 3
12	Red	26	Burst 4
13	Blue	27	Multiburst
14	Black	28	

## Specifications

### Specifications:

- Output Format: RGBHV, YPbPr
- Output Connector: HD 15 Female
- Output Signal: RGB @ 0.7Vp-p, H&V Sync @ 3Vp-p, Y @ 1Vp-p, Pb,Pr @ 0.7Vp-p  
75 ohm
- Weight (g): 400
- Dimensions (mm): 77 (W) x 30 (D) x 146 (H)
- Power Source: 5VDC @ 2A

## Output Signal Specifications

PC Resolutions		Vert Rate	Format	Scan Type
VGA	640 X 480	50,60,72,75,85 Hz	RGBHV	Progressive
SVGA	800 X600	50,56,60,72, 75, 85 Hz	RGBHV	progressive
XGA	1024X768	50,60, 70, 75, 85 Hz	RGBHV	Progressive
WXGA	1280X768	50,60 Hz	RGBHV	Progressive
SXGA	1280X1024	50,60 Hz	RGBHV	Progressive
HDTV Resolutions		Vert Rate	Format	Scan Type
480p	720 x 480	50,60 Hz	YPbPr, RGBHV	Progressive
576p	720 x 576	50,60 Hz	YPbPr, RGBIIV	Progressive
720p	1280 x 720	50,60 Hz	YPbPr, RGBIIV	Progressive
1080i	1920x1080	50,60 Hz	YPbPr, RGBHV	Pseudo Interlance