

# PC/HDTV Pattern Generator

- ID# 633



**Operation Manual**

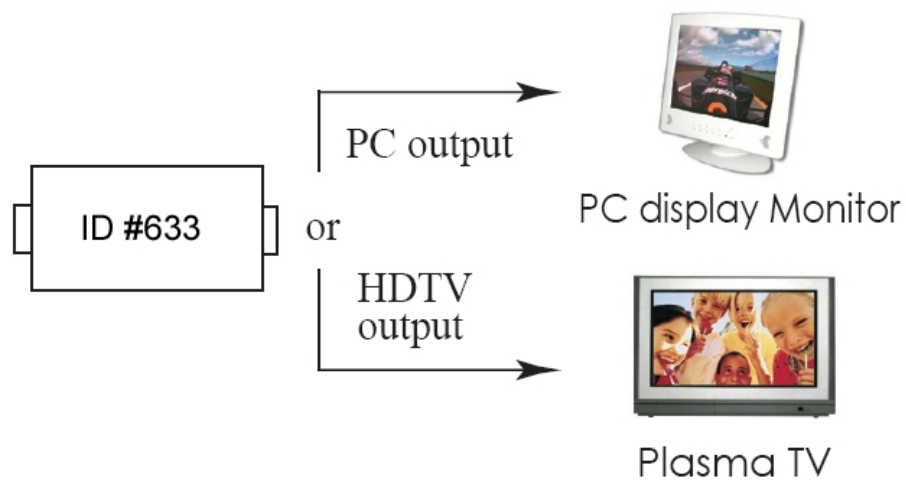
## Introduction

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

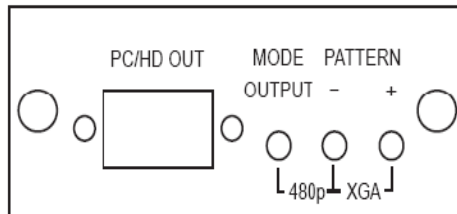
**Mode:** Select the output resolution.

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

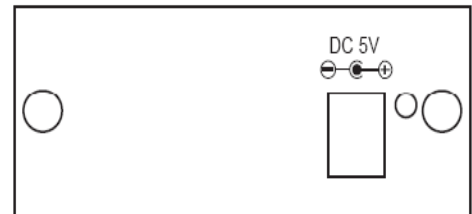
Press " mode, - " : Reset the output resolution to 480p / color bar.

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 |