

LINDY®

CONNECTION PERFECTION

VGA/HD Pattern Generator

User Guide

English



LINDY No. 32626

www.lindy.com

Introduction

Thank you for purchasing the LINDY VGA/HD Pattern Generator. This compact desktop unit allows you to test a range of different display devices such as CRT, LCD, Plasma TV's projectors and monitors that support RGBHV or YPbPr inputs. This high performance pattern generator supports various PC and HDTV screen resolutions and can display a wide variety of output patterns to assist in the testing and calibration of display devices.

Features

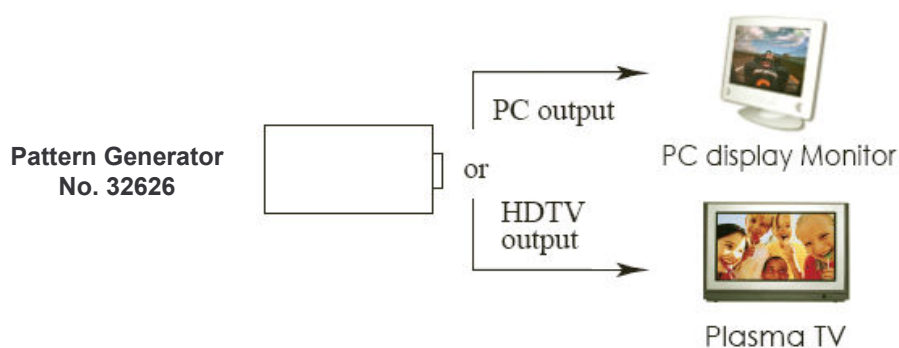
- Compact desktop design
- On screen display
- Output connector: 15 Way HD Female
- Output format: VGA (RGBHV) and YPbPr (Component)
- Dimensions: 77 x 30 x 146mm (WxDxH)
- Weight: 240g

Package Contents

- VGA/HD Pattern generator
- 1x 15 Way HD Male to Male cable, 1.1m
- 1 x 15 Way HD Male to 3 x Phono (Red, Green, Blue), 1m
- Multi-country switching power adapter: 100~240V AC 50-60Hz / +5VDC / 2.6 Amp centre positive, includes Euro, US, UK & Australian adapters
- This user guide

Installation

The LINDY VGA/HD Pattern generator can be connected to a variety of display devices. Choose from either VGA or YPbPr compatible inputs. The diagram below shows how to connect the VGA/HD pattern generator to your PC or HDTV display using the supplied cables.



Output Resolutions, Refresh Rates and Scan Types Available

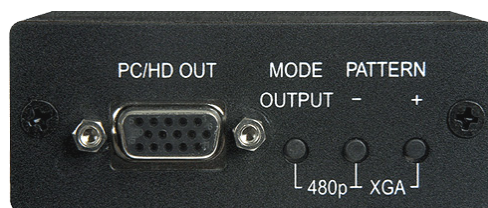
PC resolutions		Vertical Rate	Format	Scan Type
VGA	640 x 480	50,60,72,75,85Hz	RGBHV	Progressive
SVGA	800 x 600	50,56,60,72,75,85Hz	RGBHV	Progressive
XGA	1024 x 768	50,60,70,75,85Hz	RGBHV	Progressive
WXGA	1280 x 768	50,60Hz	RGBHV	Progressive
SXGA	1280 x 1024	50,60Hz	RGBHV	Progressive
HD TV Resolutions		Vertical Rate	Format	Scan Type
480p	720 x 480	50,60Hz	YPbPr, RGBHV	Progressive
576p	720 x 576	50,60Hz	YPbPr, RGBHV	Progressive
720p	1280 x 720	50,60Hz	YPbPr, RGBHV	Progressive
1080i	1920 x 1080	50,60Hz	YPbPr, RGBHV	Pseudo Interlace

Available Test Patterns

No.	Pattern	No.	Pattern	No.	Pattern
1	Colour bars	10	Green	19	English characters (E)
2	Colour bars + Multiburst	11	Magenta	20	Chinese
3	Greyscale	12	Red	21	Chinese
4	Greyscale (mirror)	13	Blue	22	Chinese
5	Checkerboard	14	Black	23	Burst 1
6	Dynamic Purity	15	Crosshatch 1	24	Burst 2
7	White	16	Circle	25	Burst 3
8	Yellow	17	Crosshatch 2	26	Burst 4
9	Cyan	18	English characters (H)	27	Multiburst

Selecting Resolutions and Patterns via the On Screen Display

- Pressing the “**Mode**” button will select the required screen resolution
- Press the “+” or “-” buttons to cycle through the various test patterns
- To reset the unit to 480p simply press both the “**Mode**” and “-” buttons together
- To reset the unit to XGA simply press the “+” and “-” buttons together



Power Up Sequence

Ensure all equipment is turned off before connecting the pattern generator. Once all cables are connected, apply power to the display device, then apply power to the pattern generator and select the required resolution and test pattern.

CE/FCC/WEEE Statement

CE Statement

This device complies with the European Regulations for Electromagnetic Compatibility (EMC) of the European Union and it is equipped with the CE mark. This unit has to be used with high quality shielded connection cables. Only if such high quality shielded cables are used can you be sure that the EMC compatibility is not adversely influenced.

FCC Statement

Shielded cables must be used with this equipment to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B Digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced technician for help

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.



**WEEE (Waste of Electrical and Electronic Equipment),
Recycling of Electronic Products**

United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer permitted to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products.

More details can be obtained from your national WEEE recycling agency.

Germany / Deutschland

Die Europäische Union hat mit der WEEE Direktive umfassende Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden von der Bundesregierung im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt.

Dieses Gesetz verbietet vom 24. März 2006 an das Entsorgen von entsprechenden, auch alten, Elektro- und Elektronikgeräten über die Hausmülltonne! Diese Geräte müssen den lokalen Sammelsystemen bzw. örtlichen Sammelstellen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernimmt die Gesamtheit der Gerätehersteller.

France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.

Chaque Etat membre de l' Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate.

Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.

Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.



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