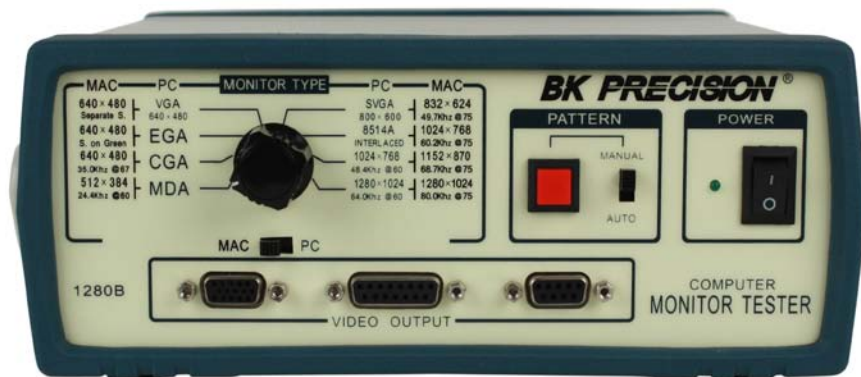


# BK PRECISION®

Model: 1280B

## Benchtop Computer Monitor Generator

### USER MANUAL



## Safety Summary

The following safety precautions apply to both operating and maintenance personnel and must be observed during all phases of operation, service, and repair of this instrument. Before applying power, follow the installation instructions and become familiar with the operating instructions for this instrument.

Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the instrument. B&K PRECISION assumes no liability for a customer's failure to comply with these requirements. This is a Safety Class I instrument.

### **GROUND THE INSTRUMENT**

To minimize shock hazard, the instrument chassis and cabinet must be connected to an electrical ground. This instrument is grounded through the ground conductor of the supplied, three-conductor ac power cable. The power cable must be plugged into an approved three-conductor electrical outlet. Do not alter the ground connection. Without the protective ground connection, all accessible conductive parts (including control knobs) can render an electric shock. The power jack and mating plug of the power cable meet IEC safety standards.

### **DO NOT OPERATE IN AN EXPLOSIVE ATMOSPHERE**

Do not operate the instrument in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

### **KEEP AWAY FROM LIVE CIRCUITS**

Instrument covers must not be removed by operating personnel. Component replacement and internal adjustments must be made by qualified maintenance personnel. Disconnect the power cord before removing the instrument covers and replacing components. Under certain conditions, even with the power cable removed, dangerous voltages may exist. To avoid injuries, always disconnect power and discharge circuits before touching them.

### **DO NOT SERVICE OR ADJUST ALONE**

Do not attempt any internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.

### **DO NOT SUBSTITUTE PARTS OR MODIFY THE INSTRUMENT**

Do not install substitute parts or perform any unauthorized modifications to this instrument. Return the instrument to B&K Precision for service and repair to ensure that safety features are maintained.

### **WARNINGS AND CAUTIONS**

**WARNING** and **CAUTION** statements, such as the following examples, denote a hazard and appear throughout this manual. Follow all instructions contained in these statements.

A **WARNING** statement calls attention to an operating procedure, practice, or condition, which, if not followed correctly, could result in injury or death to personnel.

A **CAUTION** statement calls attention to an operating procedure, practice, or condition, which, if not followed correctly, could result in damage to or destruction of part or all of the product.

**WARNING:** *Do not alter the ground connection. Without the protective ground connection, all accessible conductive parts (including control knobs) can render an electric shock. The power jack and mating plug of the power cable meet IEC safety standards.*

**WARNING:** *To avoid electrical shock hazard, disconnect power cord before removing covers. Refer servicing to qualified personnel.*

**CAUTION:** *Before connecting the line cord to the AC mains, check the rear panel AC line voltage indicator. Applying a line voltage other than the indicated voltage can destroy the AC line fuses. For continued fire protection, replace fuses only with those of the specified voltage and current ratings.*

**CAUTION:** *This product uses components which can be damaged by electro-static discharge (ESD). To avoid damage, be sure to follow proper procedures for handling, storing and transporting parts and subassemblies which contain ESD-sensitive components.*

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## Specifications

Resolutions:

| Type  | Resolution  | Horizontal<br>(kHz) | Polarity | Vertical<br>(Hz) | Polarity         |
|-------|-------------|---------------------|----------|------------------|------------------|
| MDA   | 720 x 350   | 18.4                | +        | 50               | -                |
| CGA   | 640 x 200   | 15.8                | +        | 60               | +                |
| EGA   | 640 x 350   | 21.8                | +        | 60               | -                |
| VGA   | 640 x 480   | 31.5                | -        | 60               | -                |
| SVGA  | 800 x 600   | 35.2                | +        | 56               | +                |
| 8514A | 1024 x 384  | 35.5                | +        | 87               | +                |
| VESA  | 1024 x 768  | 48.5                | -        | 60               | -                |
|       | 1280 x 1024 | 64.0                | +        | 60               | +                |
| MAC   | 512 x 384   | 24.4                | -        | 60               | - Composite Sync |
|       | 640 x 480   | 35.0                | -        | 67               | - Composite Sync |
|       | 640 x 480   | 35.0                | -        | 67               | - Sync on Green  |
|       | 640 x 480   | 35.0                | -        | 67               | - Separate Sync  |
|       | 830 x 624   | 49.7                | -        | 75               | - Composite Sync |
|       | 1152 x 870  | 68.7                | -        | 75               | - Composite Sync |
|       | 1280 x 1024 | 80.0                | -        | 75               | - Composite Sync |

Connector Pin Assignments:

| Pin No. | 15-HD<br>Function | 15-DB<br>Function | TTL 9-D<br>Function |
|---------|-------------------|-------------------|---------------------|
| 1       | Red Video         | Ground            | Ground              |
| 2       | Green Video       | Red Video         | Intensity           |
| 3       | Blue Video        | Hor./Comp Sync    | Red Video           |
| 4       | Not used          | Not used          | Green Video         |
| 5       | Ground            | Green/Sync        | Blue Video          |
| 6       | Ground            | Ground            | Intensity           |
| 7       | Ground            | Not used          | Intensity           |
| 8       | Ground            | Not used          | Hor. Sync           |
| 9       | Not used          | Blue Video        | Ver. Sync           |
| 10      | Ground            | Not used          |                     |
| 11      | Not used          | Ground            |                     |
| 12      | Not used          | Ver. Sync         |                     |
| 13      | Hor. Sync         | Ground            |                     |
| 14      | Ver. Sync         | Ground            |                     |
| 15      | Not used          | Hor./Comp Sync    |                     |

General:

Power Source: AC 115Vac/230Vac, 50/60Hz ( $\pm 10\%$ )

Dimensions (HxWxD): 3.9" x 10.25" x 10.8" (99 x 260.3 x 274.3mm)

Weight: 3.1 lbs. (1.4 kgs.)

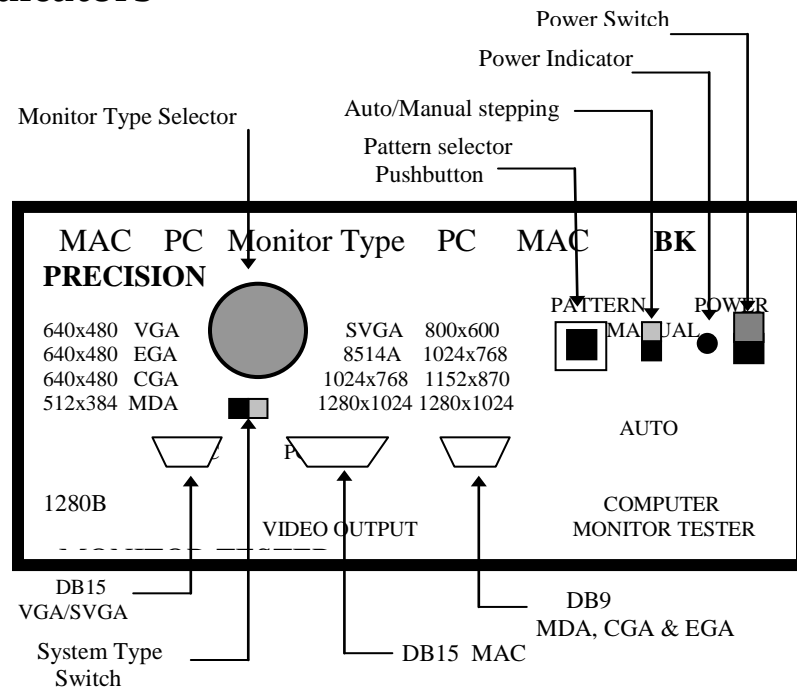
**NOTE:** Specifications and information are subject to change without notice. Please visit [www.bkprecision.com](http://www.bkprecision.com) for the most current product information.

## Package Contents

The 1280B is shipped with:

- 1280B Instrument
- Printed Instruction Manual
- Line Cord

## Controls and Indicators



**Power** -- Slide switch for power on or off.

**Power Indicator** -- LED to show when power is on.

**System Type Switch** -- Selects Mac or PC Columns

**Monitor Type Selector** -- Selects Monitor type/ Resolution

**Video Pattern** -- Step through Colorbar, Crosshatch, Dot, and Raster Push button.

**MDA, CGA or EGA Connector**

9 pin Female, D type

**MAC Connector**

15 pin Female, D type

**VGA, SVGA, & 1814A Connector**

15 mini-pin Female, D type

~ **BACK PANEL (not shown)** ~

**AC Power Input**

**AC Voltage Selector**

**Fuse Holder** -- Located directly under the AC Power Input

**Four DB15 mini-pin Female Jacks** -- Allows burn-in or testing of multiple Monitors

**RGB BNC** -- Red, Green and Blue video with sync on Green

**H/HV & VBNC** -- Horizontal and Vertical Sync outputs

## FEATURES

- Tests MDA,CGA, EGA, VGA, SVGA, & MAC Monitors
- Resolution 720x350, 640x480, 800x600, 1024x768,
- 1280x1024, 512x384, 830x624, &1152x870
- Interlaced & Progressive
- Provides Color bars, Cross-hatch, Dots, Color
- Raster & Window
- Connectors are 9pin D(MDA, CGA & EGA), 15pin
- D(MAC), 15minipin D (VGA, SVGA, and 8514A)
- Single push button selectable patterns
- Multiple monitor testing or burn-in

## BASIC OPERATION

1. Place the monitor type switches to the proper position for the type of monitor to be tested.
2. Connect the monitor to the proper video output connector.
3. Turn on the power to both the monitor and the test unit.
4. Press the video pattern push-button to step to the desired pattern\*.

\* Setting Auto Manual Switch to AUTO allows the output to scroll through the patterns automatically.

## Use of Pattern Applications

The primary use of this pattern generator is to provide a quick check of the operating condition of a monitor and to allow for the adjustment of the external controls for the best performance.

**CROSSHATCH or DOT** ---- These patterns are used to check static and dynamic convergence, linearity and pin cushion settings.

**COLOR BARS** ---- The color bars are used to test the monitors ability to produce proper colors.

**RASTER** ---- Typically used to check the purity of the primary colors. When these are properly adjusted the white raster should appear pure white.

## SERVICE INFORMATION

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**Warranty Service:** Please go the support and service section on our website [www.bkprecision.com](http://www.bkprecision.com) to obtain a RMA #. Return the product in the original packaging with proof of purchase to the address below. Clearly state on the RMA the performance problem and return any leads, probes, connectors and accessories that you are using with the device.

**Non-Warranty Service:** Please go the support and service section on our website [www.bkprecision.com](http://www.bkprecision.com) to obtain a RMA #. Return the product in the original packaging to the address below. Clearly state on the RMA the performance problem and return any leads, probes, connectors and accessories that you are using with the device. Customers not on an open account must include payment in the form of a money order or credit card. For the most current repair charges please refer to the service and support section on our website.

Return all merchandise to B&K Precision Corp. with pre-paid shipping. The flat-rate repair charge for Non-Warranty Service does not include return shipping. Return shipping to locations in North America is included for Warranty Service. For overnight shipments and non-North American shipping fees please contact B&K Precision Corp.

B&K Precision Corp.  
22820 Savi Ranch Parkway  
Yorba Linda, CA 92887  
[www.bkprecision.com](http://www.bkprecision.com)  
714-921-9095

**Include with the returned instrument your complete return shipping address, contact name, phone number and description of problem.**

## LIMITED ONE-YEAR WARRANTY

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B&K Precision Corp. warrants to the original purchaser that its products and the component parts thereof, will be free from defects in workmanship and materials for a period of one year from date of purchase.

B&K Precision Corp. will, without charge, repair or replace, at its option, defective product or component parts. Returned product must be accompanied by proof of the purchase date in the form of a sales receipt.

To obtain warranty coverage in the U.S.A., this product must be registered by completing a warranty registration form on our website [www.bkprecision.com](http://www.bkprecision.com) within fifteen (15) days of purchase.

**Exclusions: This warranty does not apply in the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs. The warranty is void if the serial number is altered, defaced or removed.**

B&K Precision Corp. shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitations of incidental or consequential damages. So the above limitation or exclusion may not apply to you.

This warranty gives you specific rights and you may have other rights, which vary from state-to-state.

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# AMEYA360

Components Supply Platform

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