

A precise, programmable - and affordable - hand held monochrome and RGB Color Video Pattern Generator

The Model 602 delivers complete test capability for all video modes, at virtually any scan rate and format. This small portable instrument is great for on-the-bench and in-the-field! The Model 602 develops reference patterns that can be selected at any of the factory supplied scan formats or up to 100 custom formats developed in your personal computer and downloaded to the generator.

Patterns

Bars, 17 x 13	Gray Scale, 10 Level
Centering	Resolution Multiburst
Checkerboard	V Stripe
Color Bars (100%)	White Field
Dots	Window

Bars, Dots, White Field, Window, V Stripe, and Centering patterns will come up as White on Black, full screen, at 100% video amplitude. The user may then select additional options: (1) Level Control, in 10% increments from black (0%) to white (100%), (2) Polarity on/off, (3) Bounce on/off, (4) Split screen (top half white on black, bottom half black on white).

Factory Formats

Reference:	Rate:
EIA Standard RS-170	525/60
EIA Standard RS-330A	525/60
EIA Standard RS-343A	675/60
EIA Standard RS-343A	729/60
EIA Standard RS-343A	875/60
EIA Standard RS-343A	945/60
EIA Standard RS-343A	1023/60
Proportional	525/60
Proportional	675/60
Proportional	729/60

Reference:	Rate:
Proportional	875/60
Proportional	945/60
Proportional	1023/60
Proportional	1023/60
Proportional	1125/60
Proportional	1225/60
VESA	640x480*
VESA	720x400/85
VESA	800x600*
VESA	1024x768*

* At various Vertical Field Rates such as 42, 56, 60, 70, 72, 75, 85 Hz.

Model 602 Programmable Video Pattern Generator - Technical Specifications

The Model 602 provides instant selection of 10 patterns at various signal formats you choose.

A Sync Mode is the selection of separate H Sync and V Sync or Composite Sync to match various computer display formats. H Sync, V Sync, & Composite Sync pulse polarity may be selected individually to match various computer display formats and other application requirements.

B Video Mode: The user may select primary color channels on/off to aid in color registration setup with the Bar (Crosshatch) pattern. The Green channel signal can be selected as Composite or Non-composite (with or without Sync) for the RGB outputs.

C Outputs: Output signals are provided on a DB15HD connector, including Red, Green, and Blue video plus synchronizing pulses- Horizontal, Vertical and Composite Sync. Configuration matches computer monitor VGA format.

Video: Three channel output of separate Red, Green, and Blue signals. The Green Channel normally is Composite Video at 1.0v. pk-pk level (.07v. video + 0.3v. sync). The Red and Blue Channels are Noncomposite Video at 0.7v. pk-pk level. All three channels have 75 ohm source termination, a.c. coupled.

Note: Overall signal amplitude adjustable by internal control to a maximum of 2.0v. composite signal.

Synchronizing Pulses: H Sync, V Sync, or Composite Sync from TTL Driver, nominal 0v. to +2.0v. level, d.c. coupled, selectable polarity.

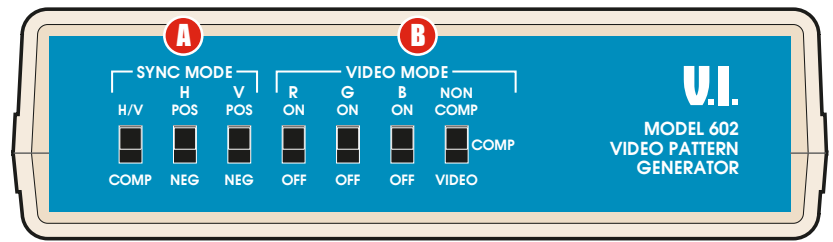
Output Connector: DB15HD, VGA computer format.

D Data Input: New scan formats can be downloaded from a personal computer via serial port to the standard RJ45 8-pin modular connector and stored for selection (optional).

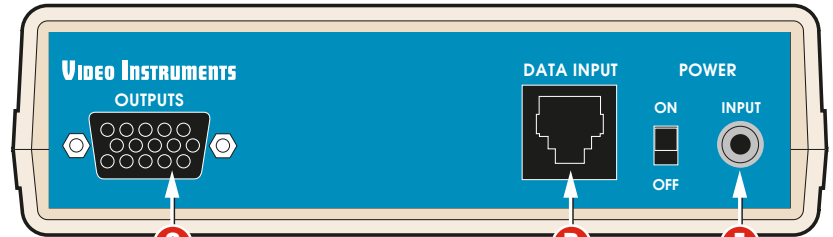
E Input Power: +9v. d.c. 120v. a.c. adaptor provided.

F Enclosure: Molded plastic enclosure, 5.5" wide x 1.5" high x 8.75" long, and weighs just 1.5 lbs.

G Programming Kit includes personal computer interface compact disk with capability for complete remote control of the instrument plus library of various scan rates including EIA and VESA standards and proportional scan rates. The user may edit and build custom rates as well. RJ-45 interface cable and RJ-45 to DB9 adaptor included for connecting generator to personal computer serial port.



Front Panel



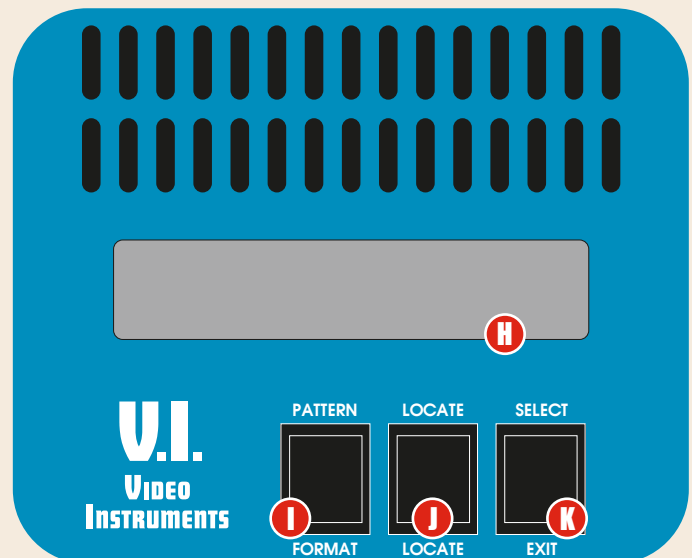
Rear Panel

H LCD: The two line LCD display shows Format selected on the top line and the pattern activated at that Format on the bottom line.

I Mode: This switch is used to select pattern or scan rate operations.

J Image Select- Locate: This switch is used to scroll through stored Images to locate the one to be selected.

K Image Select- Select/Exit: This switch is used to select the indicated image or to exit the selection routine.



Top Panel

VIDEO INSTRUMENTS

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Specifications subject to change without notice.