

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Teledyne / LeCroy / QuantumData 802R* at our website: ***Click HERE***

Model 802 Series
Quick Start Guide

QUANTUMDATA

Please see back cover for complete list of Models and Options covered by this manual.



This *Quick Start Guide* is designed to help get you up and running quickly with your generator..

Index **Page**

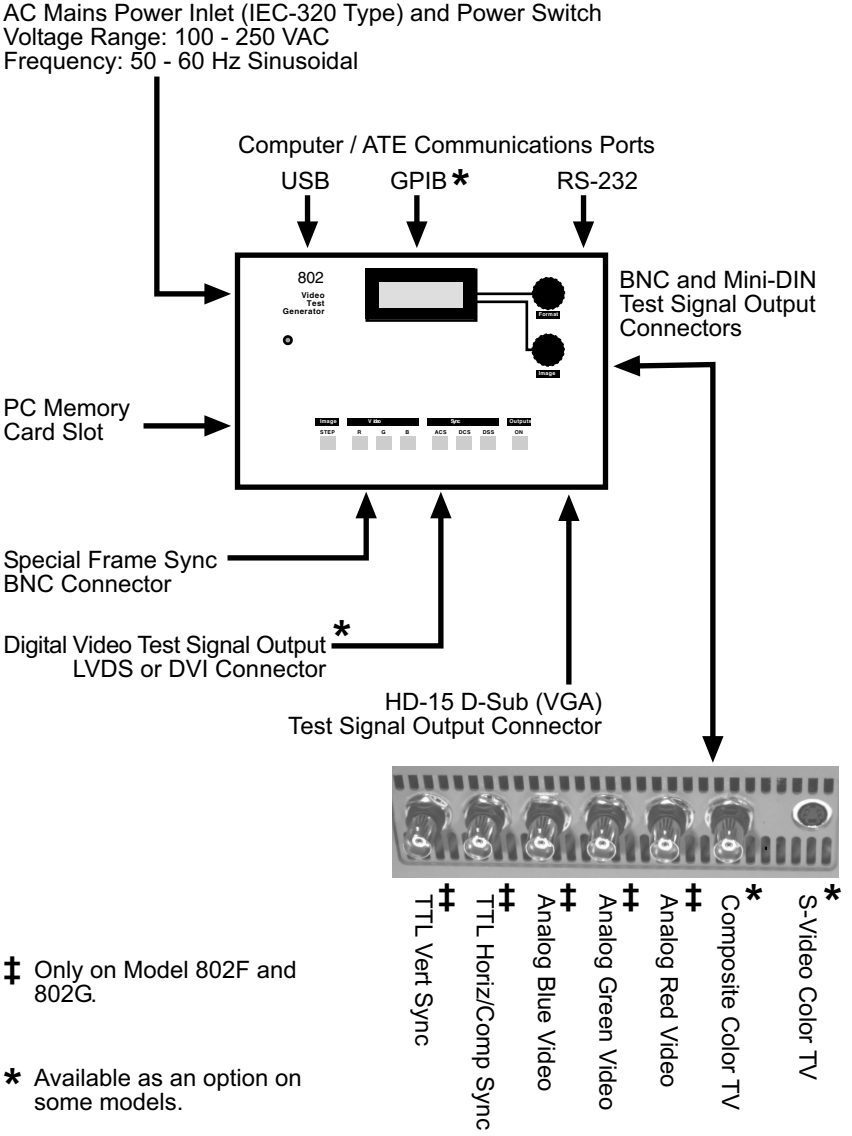
AC Power Requirements 2
Making Connections 2
Connector Pinouts 3
Normal Front Panel Operation 4
Special Modes and GenOps Image 5
Restoring Normal Operating Mode 6
Using Old Format Naming 6
Digital Friendly and Analog Friendly Modes 7
Cloning Data and Firmware 8
Special Serial Port Modes 9
Setting GBIP Address 9
Format Status Display 10
Self Calibration 10
Temporarily Changing Video Signal Types 11
Temporarily Changing Pixel Depth 11
Testing DDC Compliant Monitors 12
HDCP Testing 13
VGM Software 14
VGM Format Editor 15
VGM Image Editor 15
VGM Sequence Editor and Player 16
Displaying BMP Bit Mapped Images 17
Uploading New Firmware 19
Developing your own software apps. 19

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Making Connections

Notes:
Some connectors shown are only available on some models and/or with certain hardware option configurations.

The current firmware only fully supports use of the RS-232 and optional GPIB communications ports and has limited USB support. Version 3.00 of our VGM software supportsusing the USB port for the bit map download function described on page 17 of this manual.



‡ Only on Model 802F and 802G.

* Available as an option on some models.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

VGA Connector Pinout Chart
High Density 15 D-Sub Receptacle on all Models

Pin #	Signal	Pin#	Signal	Pin #	Signal
1	Analog Red Video	6	Analog Video Ground	11	No Connection
2	Analog Green Video	7	Analog Video Ground	12	DDC/EDID Serial Data
3	Analog Blue Video	8	Analog Video Ground	13	Horizontal Sync
4	No Connection	9	DDC/EDID +5 VDC Out	14	Vertical Sync
5	Digital Ground	10	Digital Ground	15	DDC/EDID Data Clock

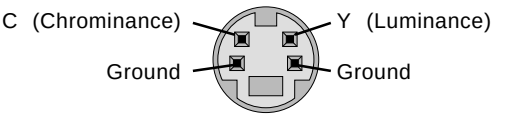
DVI Connector Pinout Chart (DVI Options Only)

Pin#	Signal	Pin#	Signal	Pin#	Signal	Pin#	Signal
1	TMDS D2-	9	TMDS D1-	17	TMDS D0-	C1	Analog Red
2	TMDS D2+	10	TMDS D1+	18	TMDS D0+	C2	Analog Green
3	D2/4 Shield	11	D1/3 Shield	19	D0/5 Shield	C3	Analog Blue
4	TMDS D4-	12	TMDS D3-	20	TMDS D5-	C4	Horiz Sync
5	TMDS D4+	13	TMDS D3+	21	TMDS D5+	C5	Analog Ground
6	DDC Clock	14	+5 V DC	22	Clock Shield		
7	DDC Data	15	Ground	23	TMDS Clock+		
8	No Conn.	16	Hot Plug Detect	24	TMDS Clock-		

LVDS Connector Pinout Chart (LVDS Option Only)

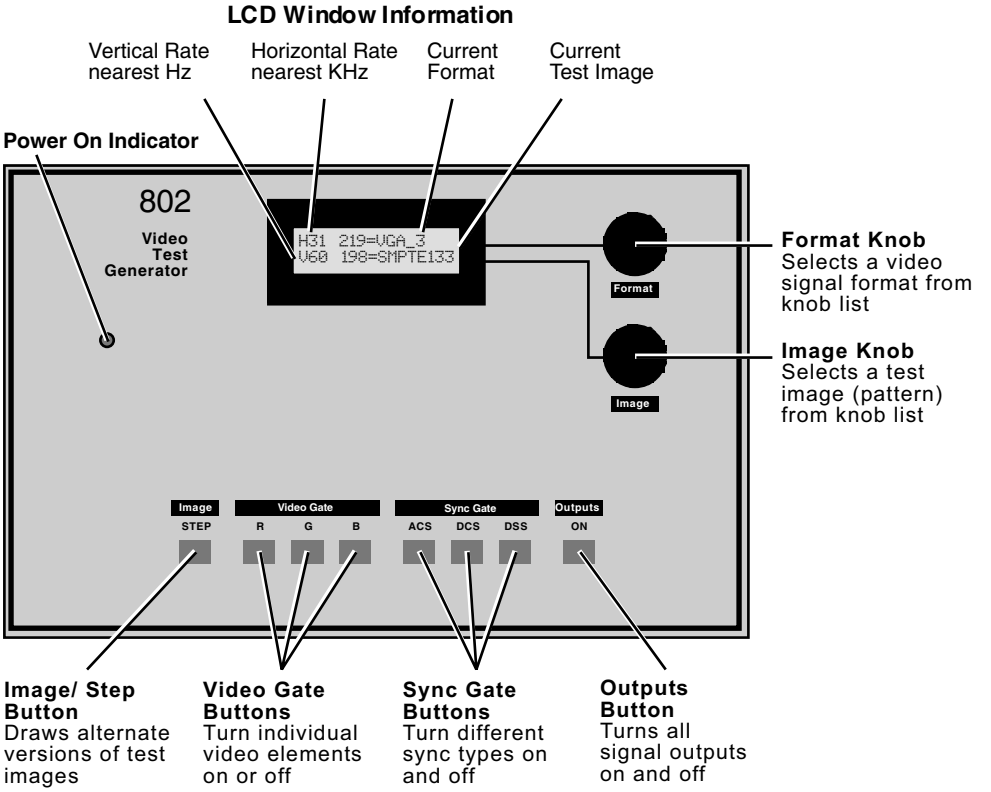
Pin#	Signal	Pin#	Signal	Pin#	Signal	Pin#	Signal
1	A0M	10	DDC Clock	19	A0P	28	DDC Data
2	A1M	11	DDC +5VDC	20	A1P	29	USB Ground
3	A2M	12	USB+	21	A2P	30	USB-
4	Clock 1M	13	USB +5VDC	22	Clock 1P	31	Shield Ground
5	A3M	14	A4M	23	A3P	32	A4P
6	Shield	15	A5M	24	No Conn	33	A5P
7	No Conn	16	A6M	25	No Conn	34	A6P
8	No Conn	17	A7M	26	No Conn	35	A7P
9	No Conn	18	Clock 2M	27	DDC Ground	36	Clock 2P

S-Video Connector Pinout Diagram (Units with TV option Only)

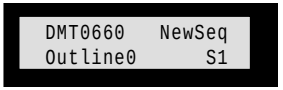


Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

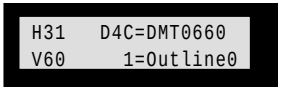
Front Panel Controls and Indicators (Normal Mode)



Notes:



If the format and image names are shifted to the left side of the LCD the unit is running in a user defined Test Sequence mode from the front panel. Information on creating a Test Sequence using VGM software is on page 16.



If there is a combination of two letters and a number to left of the equal sign in the top row of the LCD, the unit is in Detailed Status display mode. Information on setting this mode and the meaning of the letters and numbers can be found on page 10.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Special Operating Modes and Functions

Overview

Special Modes

Mode	Hold at power-on	Current status
Remove all modes	ACS, DCS, DSS	–
Set GPIB Address	DCS	15
Set baud rate to 9600	R, DCS	2400,N,8,1,N,N
Enable programmable keypad	R, OUTPUT	OFF
Initialize w/factory defaults	ACS, DSS	–
Calibrate	R, G, B	–
Enable Programming	STEP	OFF
Enable numeric keypad	R	OFF
Clone	STEP, OUTPUT	–
Digital friendly mode	G, B	OFF
Analog friendly mode	R, B	OFF
Enable status display	STEP, G, B	OFF
Old format library	G	OFF

Special Key Operations

Function	Hold first, press second	Current status
Toggle analog/digital	G, B	Analog
Rotate video type	R, B	RGB Color
Set pixel depth	R, G	8
DDC-based autoconfig	R, ACS	FMT: fmt

GenOps Test Image

Front panel button combinations are used to select the generator's optional operating modes and special functions. Some are only activated at power up while others are activated once the generator is running. The built-in **GenOps** test image shows the current status of all options. The upper portion of the image lists the modes that can only be changed on power up and the lower portion lists functions that are selected once the generator is in use. The left hand columns list the names of the modes or special functions. The center columns list the required button combinations and the right hand columns indicate the current status of the mode or function. All of the special modes and functions are described on the following pages.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Power up Modes

This section describes special operating modes that can only be selected when the generator is first powered up. The indicated buttons are held down and then the unit is powered up. Release the buttons when the LCD displays a message identifying the selected mode.

Some operating modes will be retained when the unit is turned off and then powered back on. The only way to deactivate one of these stored modes is to select an alternate mode, remove all modes, or initialize with factory defaults.

Remove All Modes



This button combination resets all operating modes to factory default conditions.

This operation does not modify or delete and user data stored in non-volatile memory.

Initialize w/Factory Defaults

WARNING: This two step operation erases all user created data stored in nonvolatile memory.

Step 1: Power up while holding down indicated buttons.



Step 2: The LCD will display a confirmation request. Press **Image STEP** to cancel the operation. Press **Outputs ON** to initialize memory.

Use Old Format Names

The built-in library of video format names has been updated in the current firmware. Many formats found in older firmware are renamed to more closely match nomenclatures used in the display industry or in the appropriate standards. You can use the new names by default or set the firmware to use the names used by older firmware.

The use of the older format names is activated by holding down the indicated button on power up. The setting will be retained when the unit is turned off and back on.



CAUTIONS:

1) Switching to using older names will delete all user defined video formats currently stored in the generator.

2) The only way to restore the use of the new format names is to fully re-initialize the generator. This will delete ALL user data stored in the generator.

Our VGM software application can be used to back up user data files from the generator to disk and then restore them back to the generator.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Digital Friendly Mode

This operating mode causes the generator to override a given format's analog video output type selection and output digital video. This mode is activated by holding down the indicated buttons on power up.



This mode will be retained when the unit is turned off and can only be deactivated by **Removing all modes**, **Initializing with factory defaults**, or selecting **Analog Friendly** mode.

Digital Friendly mode only affects formats loaded using the front panel Format knob. Formats loaded using commands via the communications ports or as part of a Test Sequence are not affected.

You can still use the Toggle Analog/ Digital function to temporarily switch a format's video type to analog when needed.

CAUTION!
Enabling Digital Friendly mode on a generator without a digital video option installed will turn off all outputs and report **Error 2741** (Digital video type not supported) for every format loaded with the front panel knob.

Analog Friendly Mode

This operating mode causes the generator to override a given format's digital video output type selection and output analog video. This mode is activated by holding down the indicated buttons on power up.



This mode will be retained when the unit is turned off and can only be deactivated by **Removing all modes**, **Initializing with factory defaults**, or selecting **Digital Friendly** mode.

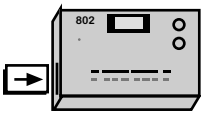
Analog Friendly mode only affects formats loaded using the front panel Format knob. Formats loaded using commands via the communications ports or as part of a Test Sequence are not affected.

You can still use the Toggle Analog/ Digital function to temporarily switch a format's video type to digital when needed.

CAUTION!
Enabling Analog Friendly mode on a generator that does not have analog video hardware installed will turn off all outputs and report **Error 2748** (Analog video type not supported) for every format loaded with the front panel knob.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Clone (Must be exact same model and firmware)



PC Card Slot Location

Cloning allows you to program a generator at your desk using Quantum Data's VGM software and then easily and quickly transferring the information to other generators of the same model. You transfer (clone) the entire block of battery backed user memory (including video formats, custom test images and test sequences) from one generator to another using a suitable PC memory card. **A Type 1, Battery Backed RAM PC card with at least 2 MB of storage is required. Flash or compact type memory cards will not work for cloning.**

You can use the Archiver function in our VGM software application to transfer entire blocks of user data from a generator to disk files and then upload the blocks of data to other models having similar firmware versions. The Archiver function also supports converting data blocks created with older firmware to be compatible to be uploaded to models with newer firmware. The VGM software also supports saving individual video formats, custom test images and test sequences to disk and then individually uploading them to other models with most other firmware versions.

1. Insert a suitable PC memory card and power up the generator while holding down the indicated buttons.



2. Release the buttons and then select an operation from the following choices:

A. Write to the Card
Press the **Outputs ON** button to write the generator's contents to the card and resume normal operation.

B. Read from the Card
Press the **Image STEP** button to replace all previously saved user data stored in the generator's nonvolatile memory with all the data read in from the card.

B. Cancel Cloning
Press the **ACS** button to cancel cloning without making any changes and resume normal operation.

NOTES:

The PC-Memory card can be safely inserted or ejected while the generator is powered up but not actively reading or writing data.

The LCD will display text error messages for the following conditions:

1) A memory card is not plugged in when attempting to read or write.

2) Attempting to write to a write protected memory card.

3) Attempting to read data that was created with an incompatible firmware version or corrupted data.

You can either correct the condition and use the appropriate **Outputs** or **Image** button selection to continue or the **ACS** button to cancel and resume normal operation with no changes.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Serial Port Configuration

The default setting of the RS-232 serial port is 2400 Baud, No Parity, 8 data bits, 1 Stop bit, No Handshaking (2400, N, 8, 1, N, N) and normal programming language support. The following special modes can be activated by holding down the indicated buttons on power up and will be retained when the unit is turned off.

Set Baud rate to 9600



Enables normal programming language support at 9600 Baud.

Enable numeric keypad



Switches protocol to support an optional Model 8020 numeric keypad.

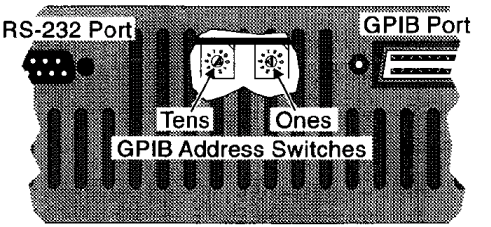
Enable programmable keypad



Switches protocol to support an optional 35 key programmable keypad.

Set GPIB Address

Generators that have the GPIB (IEEE-488) port option installed use two rotary switches for setting the GPIB address. These switches are accessible through the ventilation slots as shown here.



The generator stores its current GPIB address in nonvolatile memory. A normal power-up will not update the memory to any new switch settings. The GPIB address is normally read from the switches into memory by holding down the indicated button on power up.



Notes:

The current GPIB address is stored in system memory and displayed during power-up.

The GPIB address switches are also read into memory if the generator goes through a full re-initialization for any reason.

The IEEE-488 configuration description of the generator is:

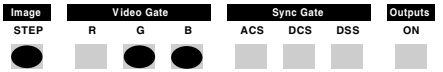
SH1AH1T6TEØLEØSR1RL1PPØDC1DT1CØ

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Enable Status Display

This mode replaces the Format Knob List index number to the left of the format name on the LCD with three characters that show the status of the selected format. It also replaces the Image Knob List index number to the left of the image name on the LCD with image version number.

This mode is activated by holding down the indicated buttons on power up.





Left Character
A Analog Video Format
D Digital Video Format

Center Digit
4 4 Bits-per-pixel Depth
8 8 Bits-per-pixel Depth

Right Character
M Monochrome Video
C RGB Color Video
Y Color Difference Mode

Note: The Format test image shows full details of all parameters of a format.

Calibrate

The generator has built-in hardware for calibrating the signal levels of the analog video outputs. No extra hardware or test equipment is required. However, you may obtain slightly better results if three 75 ohm terminators are connected to one set of the Red, Green and Blue outputs.

The self calibration operation is initiated by holding down the indicated buttons on power up.



The LCD will show a calibration progress report. Any calibration error messages may indicate a hardware problem that requires repair of the generator. The generator will continue to function but may have signal level errors in or more analog outputs.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Special Key Functions

This section describes special operating functions that can be selected once the generator is operating. These functions operate by holding down one of the indicated buttons while pressing and releasing the other button. If the primary gating function of the held button is inadvertently toggled during the operation, press the button a second time to restore the gating status.

Toggle Analog / Digital Video Type



Toggles between matching analog and digital video outputs for the current video format. **Error 2741** indicates that a matching digital type is not supported and Error **2748** indicates that a matching analog video type is not supported

Rotate Video Color Type



Cycles between RGB color and Monochrome video for formats saved with RGB color for the video type.

Cycles between Color Difference, RGB color and Monochrome video for formats saved with Color Difference for the video type.

Set Pixel Depth



Toggles between pixel depths of 8 bits-per-pixel (up to 256 colors or shades of gray on the screen at one time) and 4 bits-per-pixel (up to 16 colors or shades of gray)

Error 2074 indicates the generator hardware configuration does not support the selected pixel depth.

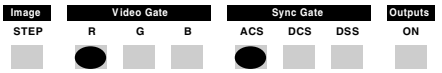
NOTES:

Enabling Status Display mode, as described on the opposite page will allow you to see a format's video type settings and pixel depth.

Loading another format or reloading the same format will reset the video types and pixel depth to the format's stored settings.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

DDC Based Autoconfiguration



Creates a new format knob list based on video format information stored in the EDID structure of a VESA® DDC compliant monitor attached to the VGA or digital video connector. The generator builds the list by first selecting VESA standard formats from generator's built-in library. The selection is based on the standard formats bits set in the EDID structure.

If the EDID structure indicates the monitor has a non-VESA preferred video format, a new video format is created based on the preferred format parameters. The created format's name starts with the three character manufacturer's ID code in the EDID structure and ends with a number based on the number of active lines and refresh rate. The format is saved in user memory and added to the new knob list.

The newly created knob list is given a three character name that matches the manufacture's ID code and the list is saved in user memory. Any previously created knob list with the same name is overwritten with the new list.

The generator will then start using the newly created format knob list.

If the generator is powered down in this configuration, it will continue to use the DDC configured format knob list on power up.

Pressing the DDC autoconfiguration button combination while using an autoconfigured knob list will always switch to the format knob list named "fmt" (factory default list). Pressing the DDC auto-configuration button combination a second time will trigger a new DDC autoconfiguration cycle.

NOTES:

The function will report **Error 9491** (DDC Not Available) on the front panel LCD if valid DDC data can not be obtained for any reason.

The **EdidData** test image shows a monitor's EDID information.

The bottom line of the **GenOps** test image shows the name of the format knob list currently in use. The factory default format knob list is named **fmt**.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

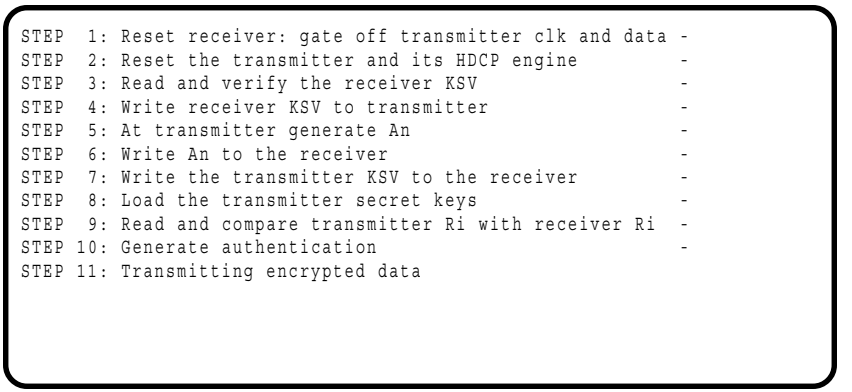
High-bandwidth Digital Copy Protection (HDCP) Testing

Video generators with optional DVI digital video outputs contain the required firmware and hardware to support the Intel® Corporation based HDCP downstream protocol. This permits the generator to act as an HDCP signal source for testing HDCP compliant Digital Video displays. The standard firmware includes HDCP Test Keys at no additional charge. Please contact your Quantum Data sales representative if you wish to purchase generators with an optional HDCP Production Key.

Test Method

HDCP testing with Test Keys uses the **HdcpA1B1, HdcpA1B2, HdcpA2B1** and **HdcpA2B2** test images. The last four characters in the image name identify which set of Test Keys are used. The **HdcpProd** image uses the optional production key. You need to make sure you are using a suitable digital video format for the given display under test and that it can correctly show other test images in a stable manner before using the HDCP test image.

The HDCP image consists of a screen of text displayed on the unit under test as shown below. When first selected, the test image is output without any HDCP encryption. The text lists the automatic sequencing through the internal and external HDCP communications authentication process with a "Pass" or "Fail" indication at the end of each step.



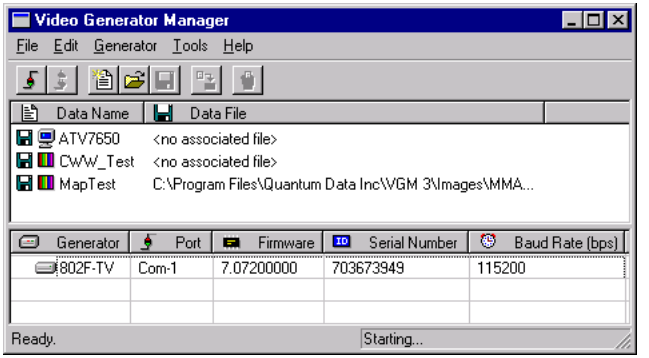
Steps 1 and 2 are internal generator setup operations and should always pass. Once downstream authentication steps 3 through 10 pass, the test image will be output using HDCP encrypted video. The entire process repeats if step 9 Fails or if a monitor is disconnected and reconnected to the generator. Selecting another digital video format will restart the HDCP authentication process. Selecting a different test image stops HDCP encryption of the digital signals.

Once the authentication is passed, the connection will be reauthenticated every 128 fields of video. The current reauthentication status is shown with additional text in the lower portion of the test image.

Additional information about HDCP may be found on the World Wide Web at: **http://www.digital-cp.com/**

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Video Generator Manager (VGM)

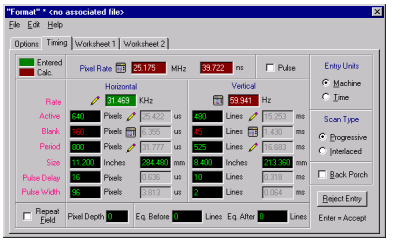


The VGM software package provides a graphical user interface that allows you to program our Bench Top, ISA card and PCI card Model 801 and 802 Series video generators. You can also use the software to control the generator instead of using the front panel controls. The current version of the VGM runs on Microsoft® Windows® 95/98/NT/2000. The software also allows you to save copies of custom formats, images and sequences on the computer's disk drive. These files can then be uploaded into other Quantum Data video generators.

A copy of the VGM software is included on the CD-ROM that comes with each generator sold. The software is also available as a free download from the Tech Support area of our Web site at www.quantumdata.com. The software installation includes on-line help and there is additional documentation in the form of Adobe® Acrobat® PDF files on the CD-ROM.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

VGM Format Editor

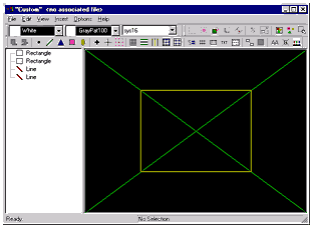


The current firmware in the Model 802 Series includes over 200 video formats that match the video and sync signals used by a wide variety of computers and imaging systems. You can store additional video formats in the generator's nonvolatile user memory.

The format editor in VGM provides an easy to use interface that allows you to quickly define the signal types and timing for your video format. You can create your own video format using any of the generator's built in formats or a format that you have previously created as a starting point. The editor also allows you to create a new format using a default template as a starting point. The edited formats can then be saved in the generator's battery backed memory and selected with the front panel knob.

Although you can use any of the built-in formats as a starting point for your own format, you can not save the format using the same name as any of the built-in formats.

VGM Image Editor

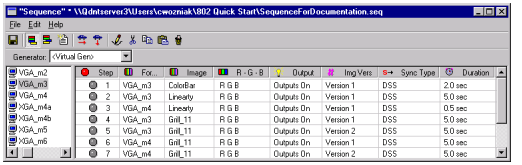


The custom image editor in VGM provides a simple graphic interface that allows you to quickly set up custom test images. You build up the images using the provided drawing primitives such as dots, lines, triangles, rectangles and ovals. You can also add text and more complex primitives such as full screen crosshatches with user defined line spacing. These custom images can then be saved in the generator's battery backed memory and selected with the front panel knob.

The built-in test images can not be edited or used as a starting point for a custom test image. The Model 802's built-in test images use a different method of drawing than used for custom images.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

VGM Sequence Editor

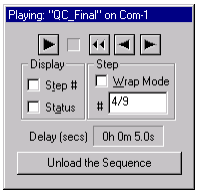


Testing of a given model display may require repeated use of several different formats and images in a specific order. A sequence lets you pair up formats and images to form a single test step. Your create and organize the steps to match your test procedure for a particular display. The 802F and 802G let you manually step forward and backward through such a sequence, or the sequence can continuously cycle through all the steps, stopping for an individually defined time at each step. This mode is useful for burn-in testing or for running displays at trade shows.

More than one sequence can be stored in the generator's nonvolatile memory. The number of sequences you can store depends on the sum total of the number of steps in each sequence. A total of about 1280 - 1500 steps can be saved, depending on how many separate sequences are used.

VGM Sequence Player

Once you have created and stored a sequence stored in the generator, you run it using the VGM software Sequence Player. A future version of the generator firmware may permit an operator to chose and run a stored sequence directly from the front panel of the generator.



Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Instructions for Bitmap Picture Download:

The bit map download function in VGM allows you to display, using the video generator, an image stored as a BMP file by your computer. The bit map is transferred directly to the video memory and the color information in the file is transferred directly to the color lookup table memory. Selecting another test image or video format will clear the displayed bit-mapped image. There is no way to store the BMP file in the generator's user memory.

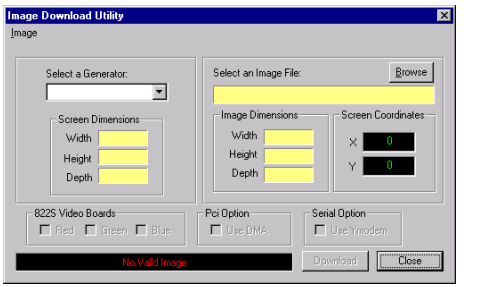
NOTE: The bit map download operation does not clear the current displayed test image. It will only over write the portion of active video that matches the size and offset of the downloaded image. The download operation will modify the color lookup table values. This may cause the color to change on other portions of the screen. If you want to start with a blank screen, you should first display the “raster” test image.

1. Requirements to download a bit mapped image file to a generator:

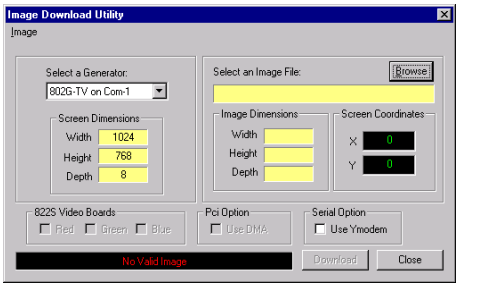
- The target generator firmware must support the bit map download function.

- The bit mapped image file must be stored on the computer as an uncompressed .BMP file.

- VGM must have communications open with the target generator



2. Select Tools -> Image Download from the Main VGM Screen. This will open the Image Download Utility Screen shown here.



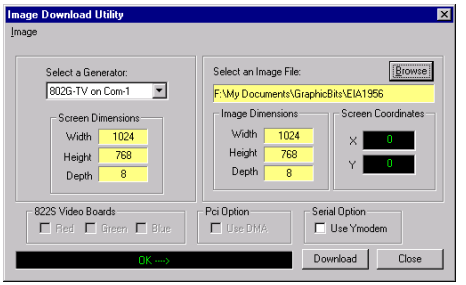
3. Select the target generator from the pull-down ”Select a Generator” list. The active video dimensions (in pixels) of the current video format being produced by the generator will be shown in the Screen Dimensions” area of the Image Download screen.

4. You must check the "Serial Option / Use Ymodem" check box when downloading the image via a serial port connection. If you do not put a check in the box, the software will attempt to use a USB connection for the download. The software may stop responding if the box is not checked and there is no USB connection to the generator.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

5. You can either type the full path to the bit mapped file you wish to download or click on the “Browse” button. The browse button opens a standard MS-Windows “Open File” dialog box. You can then navigate to the desired file and open it.

6. If you selected a valid BMP file, its dimensions will be indicated in the Image Dimensions area as shown here.



7. You can choose to offset where the downloaded image will be displayed in the active video area. By default the image is drawn start in the top left corner. You can enter horizontal (X) and vertical (Y) offsets of the top left corner of the downloaded images relative to the top left corner of active video.

NOTE: The bit map download operation does not clear the current displayed test image. It will only overwrite the portion of active video that matches the size and offset of the downloaded image. The download operation will modify the color lookup table values. This may cause the color to change on other portions of the screen

8. An “OK” message will appear in the status message bar at bottom of the screen if everything is ready for the download to begin. The “Download” button will also be available (not grayed).

9. Click the “Download” button and wait for the image to download and display. Very large bitmap files can take several minutes to load. A message box showing the current download status will be open during the download. There is no way to stop the download process without closing the whole VGM application.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Updating Generator Firmware

All Model 802 generators can be reprogrammed with new operating system firmware using VGM software. A working copy of the firmware must be in the generator to install new firmware. Please refer to the VGM documentation and help file for information on how to install new firmware.

Information on the latest firmware version numbers and file download links can be found on our web site at:

http://www.quantumdata.com/downloads/

Advanced Programming Methods

All current Models in our 801 and 802 series support a command and query language that allows you to develop your own software application to operate and program the generator. Sample executable and source code files are available from Quantum Data that you can use as a starting point for your application. Please refer to the Programmer's Manual files on the Software and Documentation CD-ROM

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

This manual for use with the following Models of Quantum Data Video Generators:

802B, 802F, 802G

The following hardware options are covered:

- GPIB Communications Port
- NTSC/PAL TV Outputs (CVSB and S-Video)
- Single Link DVI Serial Digital Video Outputs
- Single/Dual Link DVI Serial Digital Video Outputs
- Low Voltage Serial Digital (LVDS) Video Outputs

Information based on the following generator firmware versions:

802F: Version 7.07250000
802B: Version 7.07750000
802G: Version 7.07850000

VGM screen captures and VGM documentation based on:

VGM Version 3.00

Entire contents
Copyright ©2001
by Quantum Data, Inc.
All rights reserved.
The information contained in this document is provided for use by our customers and may not be incorporated into other products or publications without the expressed written consent of Quantum Data. Information furnished by Quantum Data is believed to be accurate and reliable. However, no responsibility is assumed by Quantum Data for its use.

Quantum Data reserves the right to make changes at any time and without notice to its products to improve performance, reliability, manufacturing methods, and (or) marketability.

"Model 802 Series Quick Start Guide"
Part # **68-00193 Rev. D**
(23-October-2001)

Quantum Data, Inc.
2111 Big Timber Rd.
Elgin, IL 60123-1100
U.S.A.

Phone: (847) 888-0450
Fax: (847) 888-2802

Toll Free Support in the USA
Phone: 1-888-252-6133

Internet Connections
World Wide Web Site:
http://www.quantumdata.com
Sales E-mail:
sales@quantumdata.com
Customer Service E-mail:
service@quantumdata.com
Technical Support E-mail:
support@quantumdata.com

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP