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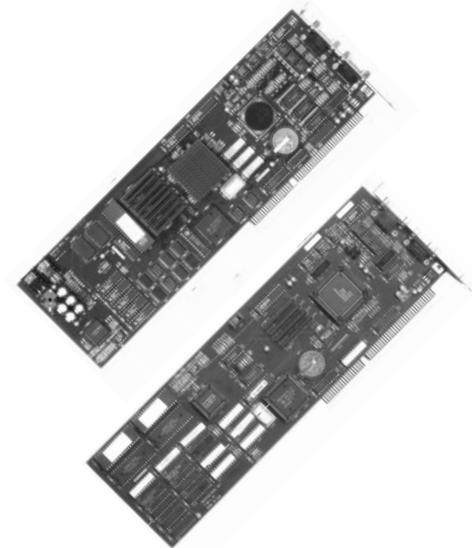
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801GC-ISA & 801GF-ISA Quick Start Guide Part # 68-00152 (Rev. B / 20-Mar-96)

QUANTUM DATA®

Model 801GC-ISA & 801GF-ISA

Quick Start Guide



This **Quick Start Guide** is designed to help you get your generator up and running quickly. Detailed operating instructions are in the **Owner's and Programmer's Manual**.

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Installation

Before you install the Quantum Data 801GC-ISA or 801GF-ISA card

- Determine which port is available for use
- Determine the correct ISA or base I/O address
- Make sure the contents of the kit are near your computer so you can follow the steps in order without stopping.
- 1. Make sure your computer and monitor are turned off.

This protects the card from possible electrical damage when you connect your system components later.

Important — For now, leave the line cord for the computer plugged in.

2. Remove the cover from the computer.

See the manual that came with your computer for specific instructions.

3. Touch the metal part of the power supply case inside the computer to discharge any static electricity that you might have.

See the manual that came with your computer to locate its power supply.

- 4. Unplug the computer's line cord.
- 5. Locate a full-size, unobstructed slot on your computer.

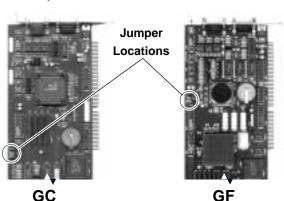
See the manual that came with your computer.

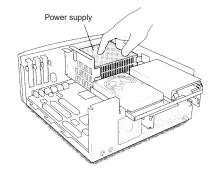
- 6. Remove the backplate for this slot.
- 7. Remove the 801GC-ISA or 801GF-ISA card from its static-proof bag.

Hold the card by its edges to avoid touching the connector on the card.

8. Prepare the card for your correct ISA or base I/O address.

This is done by placing the provided jumpers in the pattern for your ISA or I/O shown in this table. The card comes with a default setting of ISA 0 (base I/O 300H).





0	1 2	ISA	(Hex)							
		ISA 7	268							
		ISA 6	260							
		ISA 5	258							
		ISA 4	250							
		ISA 3	318							
		ISA 2	310							
		ISA 1	308							
		ISA 0	300							
= jumper in = jumper out										
here are two other jumper positions:										
and M. Position X is empty and M										

Base I/O

always has a jumper.

Available Test Images

Format P Details of the format driving the display S Details of any format in memory ColorBar P Full height color bars S Split field color bars S Split field color bars S Split field gray scale bars Raster P Active video area set to black pixels S Active video area set to white pixels BriteBox P Single white box in center of screen S Adds 4 corner boxes QuartBox P White box 1/4 of video area S Inverted - black on white CheckBy3 P 3x3 b and w checkerboard w/ black box S 3x3 b and w checkerboard w/ white box S Inverted on a white background Check_11 P Full screen of 1 on - 1 off pixels S Inverted (looks almost the same) Dot_10 P Single pixel white dots on a black background at various densities Dot_24 S Inverted - black dots on white Hatch_10i P White crosshatches and dots w/ equal size boxes. Partial boxes at edges. Hatch_24i S Inverted - black lines and dots Hatch_120 Hatch_240 S Inverted - black lines and dots Hatch_240 S Inverted - black lines and dots Hatch_64W P White crosshatch and center patch S Inverted - black lines and patch Hatch_M P Magenta crosshatch and center patch S Inverted - black lines Hatch_G P Green crosshatch and dots on black Strokes0 P Horizontal red, green, and blue lines Strokes1 P Diagonal red, green, and blue lines Strokes1 P Diagonal red, green, and blue lines Grill_44 P Vertical black and white grill lines from 4 on - 4 off to 1 on - 1 off Grill_33 Grill_11 A on - 4 off to 1 on - 1 off Linearty P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles S Inverted - black on white	Name		Description				
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S Inverted - black lines Hatch64W P White crosshatch and center patch S Inverted - black lines and patch Hatch_M P Magenta crosshatch and dots on black Hatch_G P Green crosshatch and dots on black Strokes0 P Horizontal red, green, and blue lines Strokes1 P Diagonal red, green, and blue lines Grill_44 P Vertical black and white grill lines from 4 on - 4 off to 1 on - 1 off Grill_22 S Horizontal black and white grill lines 4 on - 4 off to 1 on - 1 off Linearty P Crosshatch, circles, and tic marks LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles		S					
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S Inverted - black lines and patch Hatch_M P Magenta crosshatch and dots on black Hatch_G P Green crosshatch and dots on black Strokes0 P Horizontal red, green, and blue lines Strokes1 P Diagonal red, green, and blue lines Grill_44 P Vertical black and white grill lines from 4 on - 4 off to 1 on - 1 off Grill_22 S Horizontal black and white grill lines 4 on - 4 off to 1 on - 1 off Linearty P Crosshatch, circles, and tic marks LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles		S	Inverted - black lines				
Hatch_M P Magenta crosshatch and dots on black Hatch_G P Green crosshatch and dots on black Strokes0 P Horizontal red, green, and blue lines Strokes1 P Diagonal red, green, and blue lines Grill_44 P Vertical black and white grill lines from 4 on - 4 off to 1 on - 1 off Grill_22 S Horizontal black and white grill lines 4 on - 4 off to 1 on - 1 off Linearty P Crosshatch, circles, and tic marks LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles	Hatch64W	Р	White crosshatch and center patch				
Hatch_G P Green crosshatch and dots on black Strokes0 P Horizontal red, green, and blue lines Strokes1 P Diagonal red, green, and blue lines Grill_44 P Vertical black and white grill lines from 4 on - 4 off to 1 on - 1 off Grill_22 S Horizontal black and white grill lines Grill_11 4 on - 4 off to 1 on - 1 off Linearty P Crosshatch, circles, and tic marks LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles		S	Inverted - black lines and patch				
Strokes0 P Horizontal red, green, and blue lines Strokes1 P Diagonal red, green, and blue lines Grill_44 P Vertical black and white grill lines from 4 on - 4 off to 1 on - 1 off Grill_22 S Horizontal black and white grill lines 4 on - 4 off to 1 on - 1 off Linearty P Crosshatch, circles, and tic marks LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles	Hatch_M	Р	Magenta crosshatch and dots on black				
Strokes1 P Diagonal red, green, and blue lines Grill_44 P Vertical black and white grill lines from 4 on - 4 off to 1 on - 1 off Grill_22 S Horizontal black and white grill lines 4 on - 4 off to 1 on - 1 off Linearty P Crosshatch, circles, and tic marks LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles	Hatch_G	Р	Green crosshatch and dots on black				
Grill_44 P Vertical black and white grill lines from 4 on - 4 off to 1 on - 1 off Grill_22 S Horizontal black and white grill lines 4 on - 4 off to 1 on - 1 off Linearty P Crosshatch, circles, and tic marks LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles	Strokes0	Р	Horizontal red, green, and blue lines				
Grill_33	Strokes1	Р	Diagonal red, green, and blue lines				
Grill_22 Grill_11 S Horizontal black and white grill lines 4 on - 4 off to 1 on - 1 off Linearty P Crosshatch, circles, and tic marks LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles	Grill_44	Р	Vertical black and white grill lines from				
Grill_11	Grill_33		4 on - 4 off to 1 on - 1 off				
Linearty P Crosshatch, circles, and tic marks LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles	Grill_22	S	Horizontal black and white grill lines				
LinFocus P Crosshatch, w/ center mark, circle and "@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles	Grill_11		4 on - 4 off to 1 on - 1 off				
"@" focus character blocks S Inverted - black on white CirclesL P Multiple white circles	Linearty	Р	Crosshatch, circles, and tic marks				
S Inverted - black on white CirclesL P Multiple white circles	LinFocus	Р	Crosshatch, w/ center mark, circle and				
CirclesL P Multiple white circles			"@" focus character blocks				
· ·		S	Inverted - black on white				
CirclesS S Inverted - black circles on white	CirclesL	Р	Multiple white circles				
	CirclesS	S	Inverted - black circles on white				

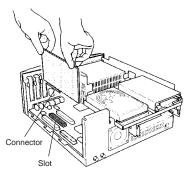
P = Primary

S = Secondary

Name		Description
SMPTE133	Р	Based on SMPTE RP-133 pattern
	S	Gray scale boxes replaced with
		color boxes top and bottom
Focus_Cx	Р	Full screen of white characters or
Focus_H		symbols. Include a "Cx" symbol, an
Focus_Oo		"Oo" symbol, the letter "H", an "@"
Focus_@6		character in 3 different sizes, a
Focus_@7		Japanese Kanji "Kan" character,
Focus_@8		and a "MEME" cluster.
KanjiKAN	S	Inverted versions - black characters
MEMESony		on a white background
MESony R	Р	Red MEME Sony image on black
MESony G	Р	Green MEME Sony image on black
MESony_B	Р	Blue MEME Sony image on black
MEMEPlus	Р	White MEME clusters w/ white cross
		between clusters
	S	Inverted - black on white
MEPlus R	P	Red MEME Plus image on black
MEPlus G	'	Green MEME Plus image on black
MEPlus B		Blue MEME Plus image on black
Text 9	P	2 sizes of white random text
Text 16	S	Reversed text - black on white
Cubes	P	
Cubes	S	Orbiting color cubes w/ green frame
Desciet	P	On white background w/o frame
Persist	S	Moving boxes at various speeds Inverted - black boxes on white
Dlata	P	
Regulate		Blinking white box w/ thin border
El-4	S	Blinking white box w/ thick border
Flat	P	All active pixels set to white
FlatGray		All active pixels set to gray
Flat_R		All active pixels set to red
Flat_G		All active pixels set to green
Flat_B		All active pixels set to blue
Box_50mm	Р	50 and 64 mm boxes w/ format data
Box_64mm	S	Inverted - black boxes on white
Ramp	Р	Full screen gray scale (TV)
Burst	Р	Ref levels plus sine waves (TV)
TVHatch	Р	Crosshatch w/ sine-sq lines (TV)
PulseBar	Р	Sine-sq pulses plus white bar (TV)
TVBar100	Р	Color bars @ 100 IRE intensity
TVBar_75	Р	Color bars @ 75 IRE intensity
Stairs20	Р	Gray stairstep @ 20% increments
SMPTEbar	Р	Color bars plus encoder ref. signals
	_	Outline w/ diagonals and center cross
Outline_0	Р	Outline w/ diagonals and center cross
Outline_0	S	Inverted - black on white
Outline_0 Outline_1		

Installation-continued

- 9. Align the card with the slot.
- Insert the card into the slot and press the card firmly until the connector is in place.
 - Handle the card only by its edges.
 - Don't bend or wiggle the card.
 - Don't force the card into the slot. If there's a lot of resistance, pull it out and try again.
- 11. Use the screw to secure the backplate attached to the card.
- 12. Replace the cover on the computer.
- 13. Plug in your computer.
- 14. Make sure all the cable connections are secure.



Start-Up

- Open Windows™, if needed.
- Insert the Quantum Data Video Generator Manager disk in the disk drive.
- Select Run from the Program Manager File menu.



- Type a:\setu(if disk is in A drive)
- Press ENTER or click OK.
- After a few seconds, a VGM Installation Is Complete message appears.
- Press ENTER or click OK.
- The VGM icon appears.
 Double click on the icon to begin the program.

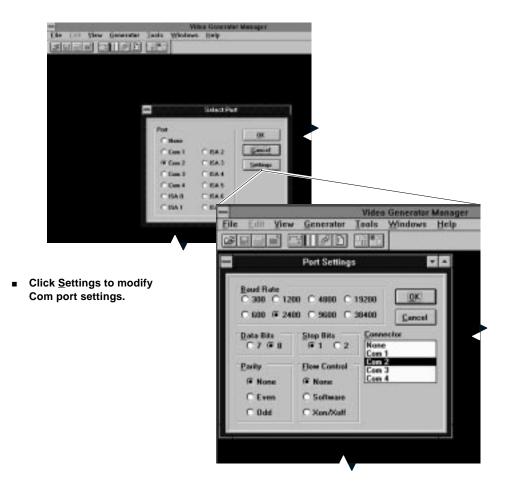


Connecting to Generator

- Connect to your generator.
- Select Port from the Generator menu.



■ Select the correct Com or ISA port.



- Select the appropriate Connector, Baud Rate, Data Bits, Stop Bits, Parity, Flow Control, and Generator for the Com port only.
- Click OK.
- Confirmation appears in the lower right corner.

Available Standard Formats

File Name	Video	Horiz x Vert	Line	Frame	[File Name	Video	Horiz x Vert	Line	Frame	ſ	File Name	Video	Horiz x Vert	Line	Frame
	Туре	Active Pixels	Rate	Rate			Type	Active Pixels	Rate	Rate			Туре	Active Pixels	Rate	Rate
MDA_M7	M2	720 x 350	18.432	49.816		DMT1075	RGB	1024 x 768	60.023	75.029		SON1072	RGB	1024 x 768	57.870	71.799
HGC_text	M2	720 x 350	18.141	49.030		DMT1275	RGB	1280 x 1024	79.976	75.025		SON1274	RGB	1280 x 1024	78.855	74.112
HGCgraph	M2	720 x 348	18.519	50.051		MAC_TVus	RGB	640 x 480	15.734	29.970•		SON1276	RGB	1280 x 1024	81.206	76.179
CGA_M14	C4	640 x 200	15.700	59.924		MAC_TVos	RGB	512 x 384	15.734	29.970•	1	INT1160	RGB	1184 x 884	55.200	60.000
EGA_m2	C6	640 x 350	21.851	59.702		MAC_12m	Mono	512 x 384	24.480	60.147		INT1176	RGB	1184 x 884	71.712	76.047
IBM_3179	C3	640 x 400	25.560	60.000		MAC_12c	RGB	512 x 384	24.480	60.147	1	INT1660	RGB	1664 x 1248	77.940	60.00
IBM_3164	C3	640 x 400	27.648	64.749		MAC_12ce	RGB	560 x 384	24.480	60.147		INT1676	RGB	1664 x 1248	100.73	76.020
AT&T_SVC	C6	640 x 400	25.862	59.866		MAC_13LC	RGB	640 x 480	34.975	66.619	1	BAR2060	RGB	2048 x 2048	126.86	60.008
AT&T_IVC	C6	640 x 400	25.862	59.866		MAC_13m	Mono	640 x 480	35.000	66.667		BAR2080	RGB	2048 x 1536	126.86	79.187
AT&T_EVC	C6	640 x 350	25.862	59.866		MAC_13c	RGB	640 x 480	35.000	66.667		BAR2560	RGB	2560 x 2048	126.91	60.034
PGA_400	RGB	640 x 400	30.296	59.638		MAC_15	Mono	640 x 870	68.850	75.000		PAL_Y	RGB	920 x 574	15.625	25.000•
PGA_480	RGB	640 x 480	30.296	59.638		MAC_16	RGB	832 x 624	49.107	75.087	1	PAL_Yus	RGB	768 x 575	15.625	25.000•
VGA_m1	RGB	720 x 350	31.469	70.087		MAC_1960	RGB	1024 x 768	48.193	59.278		PAL_Yos	RGB	640 x 480	15.625	25.000•
VGA_m2	RGB	720 x 400	31.469	70.087		MAC_19	RGB	1024 x 768	60.241	74.927	1	RS170Y	RGB	752 x 484	15.734	29.970•
VGA_m3	RGB	640 x 480	31.469	59.941		MAC_21	RGB	1152 x 870	68.681	75.062		RS170Yus	RGB	640 x 480	15.734	29.970•
VGA_m4	RGB	1024 x 768	35.522	43.478•		NECPC400	RGB	640 x 400	24.823	56.416		RS170Yos	RGB	512 x 384	15.734	29.970•
XGA_m4a	RGB	1053 x 754	35.414	43.453•		NECPC750	RGB	1120 x 750	32.857	40.021•		PAL_4xSC	EYC	910 x 574	15.625	25.000•
XGA_m4b	RGB	1056 x 768	35.602	43.470•		SUN1061	RGB	1024 x 1024	65.267	61.399		PALTV601	EYC	720 x 574	15.625	25.000•
XGA_m5	RGB	1024 x 768	56.287	70.008		SUN1077	RGB	1024 x 768	62.040	77.069		PAL_TVus	EYC	768 x 574	15.625	25.000•
XGA_m6	RGB	1360 x 1024	56.469	51.476•		SUN1166	RGB	1152 x 900	61.796	65.950		PAL_TVos	EYC	640 x 480	15.625	25.000•
XGA6475	RGB	640 x 480	39.375	75.000		SUN116B	RGB	1152 x 900	61.846	66.004		PAL_N	EYC	910 x 574	15.625	25.000•
XGA1076	RGB	1024 x 768	61.080	75.782		SUN1176	RGB	1152 x 900	71.713	76.047		NTSC_443	EYC	752 x 484	15.734	29.970•
IBM6Km1	RGB	1024 x 1024	63.360	60.000		SUN117B	RGB	1152 x 900	71.809	76.149		NTSC4xSC	EYC	752 x 484	15.734	29.970•
IBM6Km2	RGB	1280 x 1024	63.363	60.002		SUN1267	RGB	1280 x 1024	71.722	66.718		NTSC_601	EYC	720 x 484	15.734	29.970•
IBM6Km3	RGB	1280 x 1024	70.755	67.003		SUN126B	RGB	1280 x 1024	71.678	66.677		NTSCTVus	EYC	640 x 480	15.734	29.970•
IBM6Km4	RGB	1280 x 1024	70.755	67.003		SUN1276	RGB	1280 x 1024	81.130	76.107		NTSCTVos	EYC	512 x 384	15.734	29.970•
VG900601	RGB	800 x 600	35.156	56.250		SUN1667	RGB	1600 x 1280	89.286	66.931		HDTV_1J	RGB	1920 x 1035	33.750	30.000•
VG900602	RGB	800 x 600	37.879	60.317		HP1060	RGB	1024 x 768	47.700	60.000		HDTV_2J	RGB	1920 x 1035	33.750	30.000•
VS900603	RGB	800 x 600	48.077	72.188		HP1070	RGB	1024 x 768	56.476	70.069		HDTV_4J	RGB	1920 x 1035	33.750	30.000•
VS901101	RGB	640 x 480	37.861	72.809		HP1075A	RGB	1024 x 768	62.937	74.925		HDTV_1E	RGB	1920 x 1152	31.250	25.000•
VG901101	RGB	1024 x 768	48.363	60.004		HP1075B	RGB	1024 x 768	60.241	75.020		HDTV_2E	RGB	1920 x 1152	31.250	25.000•
VS910801	RGB	1024 x 768	56.476	70.069		HP1260	RGB	1280 x 1024	63.338	59.979		HDTV_4E	RGB	1872 x 1152	31.250	25.000•
DMT6475	RGB	640 x 480	37.500	75.000		HP1272	RGB	1280 x 1024	78.125	72.005		TEST150	RGB	2048 x 1024	50.403	46.887
DMT8075	RGB	800 x 600	46.875	75.000		HP1275	RGB	1280 x 1024	79.976	75.025		TEST250	RGB	2048 x 2048	79.719	35.861•

Notes

Video Types:

C3 = 3-bit digital color. C4 = 4-bit digital color (CGA). C6 = 6-bit digital color (EGA).

M2 = 2-bit digital monochrome. **RGB** = separate red green and blue analog color.

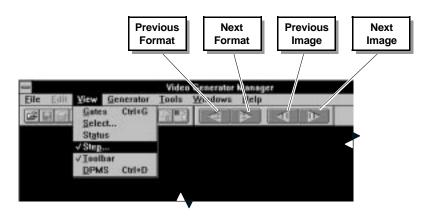
Mono = analog monochrome. EYC = analog color television (w/sub-carrier) / S-video (separate lumi and chroma).

Line and Frame Rates:

The line rates are in units of KHz. The frame rates are in units of Hz. Some rates are rounded to three decimal places. A bullet (*) after the vertical rate indicates the number is the frame rate for a 2:1 interlaced format.

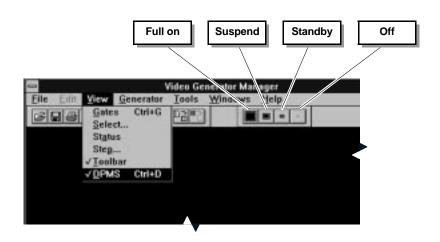
Step...

The Step ... tool lets you move to the next, or previous, saved image or format.

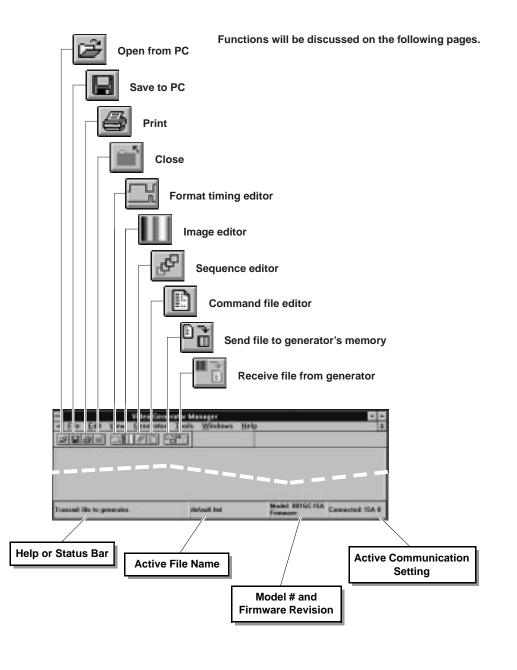


DPMS

The DPMS screen lets you select various power-saving modes.

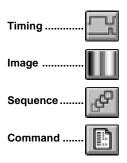


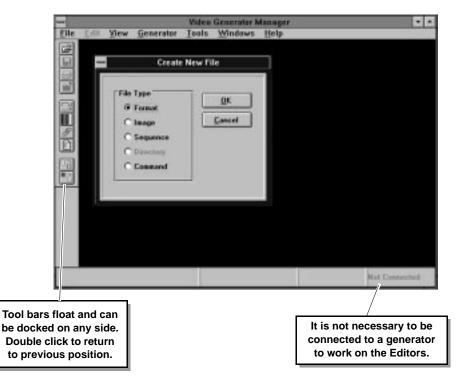
Buttons, Icons, Messages



CreateNewFile

- Select New from the File menu.
- Select the File Type you want to create.
- Press ENTER or click OK. or
- Click on the appropriate icon ...



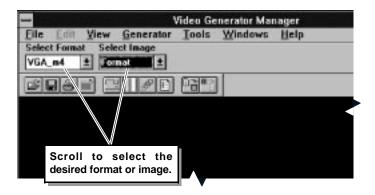


Select...

The Select screen lets you select any saved image or format.

■ Choose <u>Select</u> ... in the <u>View menu</u>.

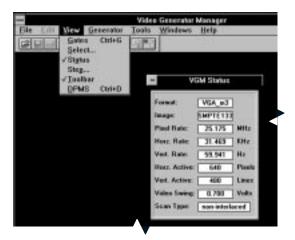




Status

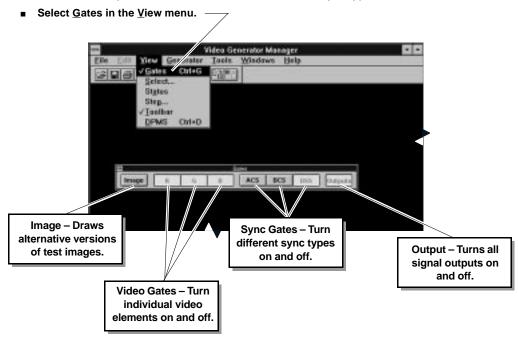
The Status screen displays all the current VGM data.

■ Select Status in the View menu.



Gates

The Gates screen lets you turn individual video elements and sync types on and off.



MultipleSyncs

 $\underline{\mathbf{M}}$ ultiple Syncs in the $\underline{\mathbf{T}}$ ools menu lets you turn on more than one sync at the same time if your monitor supports it.

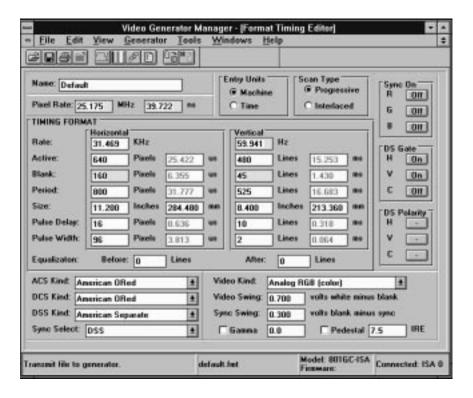


Format Timing Editor

The Format Timing Editor lets you create or edit timing formats. Any of the active fields can be modified. This screen also lets you examine the timing diagram for the image(s) you create.

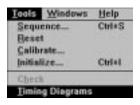
- Select New in the File menu. Then select Format.
- Select Open in the File menu. Then select the existing timing (.fmt) format you want to edit.
 or
- Click on the Timing format editor icon
- Any of the highlighted fields can be edited.

 The provide the base of the
- Transmit to the generator by clicking on the Send file to generator icon
 or
- By selecting <u>Transmit from the File menu.</u>
- Save the timing format to the PC by clicking on the Save icon or
- By selecting <u>Save or Save As from the File menu.</u>

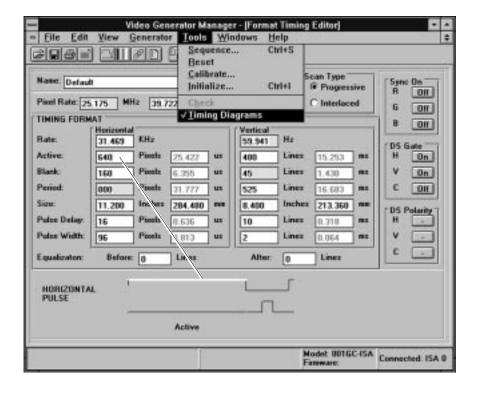


Timing Diagrams

■ Select <u>Timing Diagrams from the Tools menu.</u>



■ Click on any horizontal or vertical value to highlight that portion of the timing diagram.



■ To turn off and return to video and sync selection, again click on the Timing Diagrams from the Tools menu.

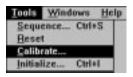
Reset

Reset begins the normal power-on sequence for the generator.



Calibrate

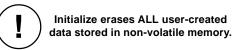
Calibrate compares the generator outputs with an internal precision reference voltage and adjusts the outputs to ensure that accurate signal swings exit the RGB video and pixel clock outputs.



Initialize

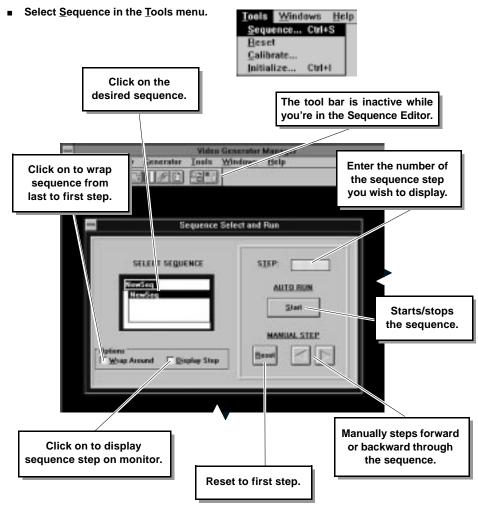
Initialize returns the generator to all factory default settings. ALL user-created data stored in nonvolatile memory is erased and a self calibration cycle is performed.





Sequence Select and Run

As its name implies, the Sequence Select and Run screen lets you select and run any saved sequence.

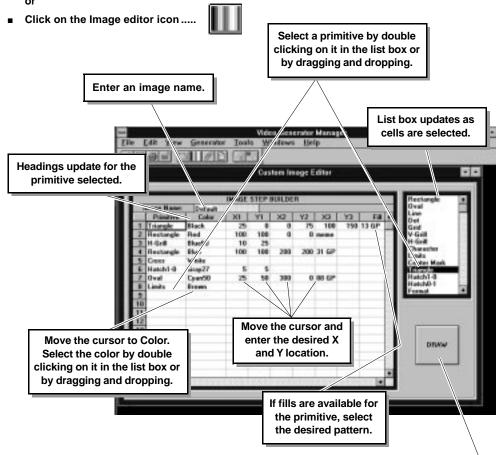


- Function Keys
 - F1 Previous step
 - F2 Next step
 - F3 Start/stop
 - F4 Reset

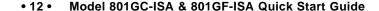
Custom Image Editor

The Image Editor lets you create or edit images. You can select any of the existing primitives, and specify its color, location, and when appropriate, its fill pattern.

- Select New in the File menu. Then select Image. or
- Select Open in the File menu. Then select the existing image (.img) format you want to edit.



- If you wish, continue entering other primitives.
- Transmit the image(s) to the generator and draw it on the monitor by clicking on Draw.
- Click on the Send file to generator icon
- Save the image(s) to the PC by clicking on the Save icon
- By selecting <u>Save or Save As from the File menu.</u>

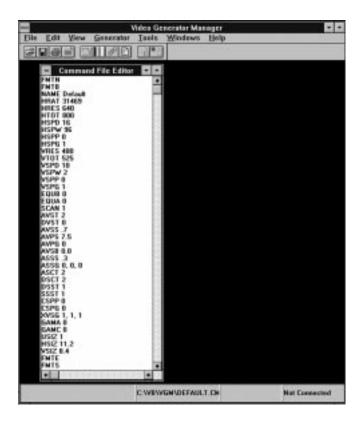


Command File Editor

The Command File Editor lets you display and send to the generator any saved format timing, image, or sequence file. Also new format timing, image, or sequence files can be created by selecting New in the File menu, then selecting Command.

- Select Open in the File menu. Then select the existing command (.cmd) file you want.
- Click on the Command editor icon





- Command files are created when you save custom format, image, or sequence files.
- For ATE applications, download these command files.
- Command files can be read by any ASCII text editor.

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Sequence Editor

The Sequence Editor lets you sequence or edit existing images. You have control over each format, image, mode, and delay.

■ Select New in the File menu. Then select Sequence.

or

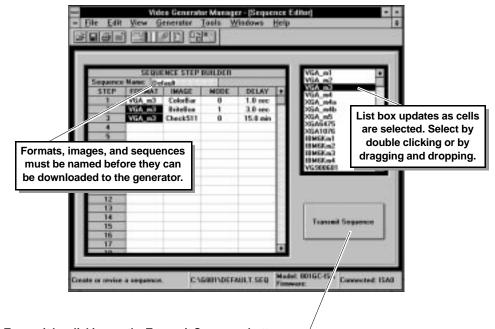
 Select Open in the File menu. Then select the existing sequence (.seq) format you want to edit.

or

■ Click on the Sequence editor icon



- Enter a sequence name.
- Select the first format you want in the sequence. Move to Image and select the first image. Then enter the mode and delay for the image.
- Continue to select and enter images for this sequence.



■ Transmit by clicking on the Transmit Sequence button.

■ By clicking on the Send file to generator icon



Save the sequence to the PC by clicking on the Save icon

■ By selecting Save or Save As from the File menu.