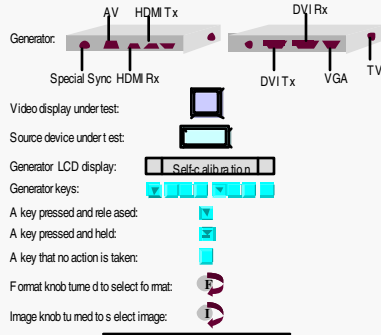


LEG END



RENITIALIZING THE GENERATOR

Front Panel and Command Line interface for reinitializing the generator, including Power cycle and LCD reply options.

CALIBRATING THE GENERATOR

Front Panel and Command Line interface for calibrating the generator, including Power cycle and LCD reply options.

REMOVING GALL MODES

Front Panel and Command Line interface for removing GALL modes, including Power cycle and LCD reply options.

STATUS DISPLAY MODE

Front Panel and Command Line interface for status display mode, including Power cycle and LCD reply options.

HOT PLUG FORMATS

Front Panel and Command Line interface for hot plug formats, including Enable, Power cycle, and LCD reply options.

DDC-BASED AUTO CONFIGURATION

Front Panel and Command Line interface for DDC-based auto configuration, including Operational status and Response.

DIGITAL/ANALOG FRIENDLY MODE

Front Panel and Command Line interface for digital/analog friendly mode, including Digital and Analog options.

VIEWING GENERATOR CONFIGURATION

Front Panel and Command Line interface for viewing generator configuration, including Front Panel and Command Line instructions.

VIEWING GENERATOR MODES

Front Panel and Command Line interface for viewing generator modes, including Front Panel and Command Line instructions.

RUNNING SPECIAL SYNC PULSE

Front Panel and Command Line interface for running special sync pulses, including Front Panel and Command Line instructions.

RUNNING TEST SEQUENCES

Front Panel and Command Line interface for running test sequences, including Front Panel and Command Line instructions.

CLONING GENERATORS

Front Panel and Command Line interface for cloning generators, including Front Panel and Command Line instructions.

VIEWING IMAGE VERSIONS

Front Panel and Command Line interface for viewing image versions, including Front Panel and Command Line instructions.

CREATING TEST SEQUENCES

Front Panel and Command Line interface for creating test sequences, including Front Panel and Command Line instructions.

RUNNING TEST SEQUENCES

Front Panel and Command Line interface for running test sequences, including Front Panel and Command Line instructions.

CREATING CUSTOM FORMATS & IMAGES

Front Panel and Command Line interface for creating custom formats and images, including Formats and Images lists.

CREATING CUSTOM FORMAT KNOB LISTS

Front Panel and Command Line interface for creating custom format knob lists, including Front Panel and Command Line instructions.

CREATING CUSTOM IMAGE KNOB LISTS

Front Panel and Command Line interface for creating custom image knob lists, including Front Panel and Command Line instructions.

VIEWING FORMAT PARAMETERS

Front Panel and Command Line interface for viewing format parameters, including Front Panel and Command Line instructions.

TESTING ANALOG COMPUTER CRT DISPLAYS

Front Panel and Command Line interface for testing analog computer CRT displays, including Front Panel and Command Line instructions.

TESTING ANALOG COMPONENT CRT TV DISPLAYS

Front Panel and Command Line interface for testing analog component CRT TV displays, including Front Panel and Command Line instructions.

TESTING ANALOG COMPONENT CRT TV DISPLAYS

Front Panel and Command Line interface for testing analog component CRT TV displays, including Front Panel and Command Line instructions.

TESTING DIGITAL COMPUTER CRT DISPLAYS

Front Panel and Command Line interface for testing digital computer CRT displays, including Front Panel and Command Line instructions.

TESTING HDMI COMPUTER DISPLAYS

Front Panel and Command Line interface for testing HDMI computer displays, including Front Panel and Command Line instructions.

TESTING HDMI INF OFRAMES

Front Panel and Command Line interface for testing HDMI info frames, including Front Panel and Command Line instructions.

TESTING HDMI ACTIVE FORMAT DESCRIPTION

Front Panel and Command Line interface for testing HDMI active format description, including Front Panel and Command Line instructions.

TESTING HDMI PIXEL REPETITION

Front Panel and Command Line interface for testing HDMI pixel repetition, including Front Panel and Command Line instructions.

TESTING HDMI INTERNAL AUDIO

Front Panel and Command Line interface for testing HDMI internal audio, including Front Panel and Command Line instructions.

TESTING EXTERNAL AUDIO

Front Panel and Command Line interface for testing external audio, including Front Panel and Command Line instructions.

HDCP TESTER MODE

Front Panel and Command Line interface for HDCP tester mode, including Front Panel and Command Line instructions.

VIEWING EDID

Front Panel and Command Line interface for viewing EDID, including Front Panel and Command Line instructions.

ENABLING ANALYZER IMAGES

Front Panel	Command Line
Set-Up: - Digital friendly mode - Connect HDMI/DVI display...	HDMI or DVI cable
Select formats... e.g. DMTxxxx	FMTL DMTxxxx /example FMTU
Select Analyzer image... Enable configuration screen...	ANIG 1
Select AnalyzerImages field...	
Set AnalyzerImages=ON...	ANIG 1
Exit setup...	

MEASURING BASIC TIMING

Front Panel	Command Line
Set-Up: - Digital friendly mode - Enable Analyzer images - Set to measure external: (Auto Based On = Meas read) - Enable Analyzer mode	HDMI or DVI cables
Read horizontal and vertical rate...	FMTL DMT0660 /load fmt FMTU /apply format ANIG 1 /analyzer images PNSF 1 /meas external TMAU /begin measure
Read horizontal and vertical resolution/sync parameters...	HTOT? /query HTOT para. HRES? /query HRES para. Query other parameters
Disable Analyzer mode...	Note: If you change formats you must reinvoke TMAU.

MEASURING DETAILED TIMING

Front Panel	Command Line
Set-Up: - Digital friendly mode - Connect HDMI/DVI source to DVI/HDMI Rx - Connect display to DVI/HDMI Tx	HDMI or DVI cables
Select suitable format e.g. DMT0660	FMTL DMT0660 /load fmt FMTU /apply format ANIG 1 /analyzer images PNSF 1 /measure ext'l TMAU /begin measure
Enable configuration screen...	HTOT? /query HTOT para. HRES? /query HRES para. Query other parameters
Select AnalyzerImages field...	Note: If you change formats you must reinvoke TMAU.
AnalyzerImages=ON...	
Select AutoBasedOn field...	
AutoBasedOn=MEASURED (for external signals)	
Exit setup...	
Select FormatRx image... View format parameters on monitor	

TESTING CABLES AND DISTRIBUTION SYSTEMS

Front Panel	Command Line
Set-Up: - Connect Tx and Rx - Digital friendly mode - Enable Analyzer images - Set to measure internal: (Auto Based On = Curent) - Enable Analyzer mode	HDMI cable DVI cable
Read pixel errors detected per color...	FMTL TEST165 /load fmt FMTU /apply format ANIG 1 /analyzer imgs PNSF 0 /inter'l timing PNST 1 /QDI-BCM alg'm PNSA 1 /noise ea pixel PNSM 0 /auto mode PNSP 100 /100 shots PNAU /begin meas'm't
Read pixel error rate and pixels measured...	GPERR? /pel err rate GNPT? /pel err/hil GCET? /R,G,B err GFED? /info 1 st err
Read expected and measured value of 1 st error...	
To stop the measurements...	

ENABLING ANALYZER MODE

Front Panel	Command Line
Set-Up: - Digital friendly mode - Disable generator outputs...	HDMI or DVI cable
Enable Analyzer mode...	
Disable Analyzer mode...	

MEASURING PIXEL ERRORS (EXTERNAL) QDI-BCM

Front Panel	Command Line
Set-Up: - Digital friendly mode - Source must have QDI-BCM algorithm - Connect HDMI/DVI source...	HDMI or DVI cables
Select Analyzer image...	FMTL DMT0660 /load fmt FMTU /apply format ANIG 1 /analyzer images PNSF 1 /measure ext'l PNST 1 /QDI-BCM algor'm TMAU /begin meas't PNSA 1 /noise ea pixel PNSM 0 /auto mode PNSP 100 /100 multi-shots PNAU /load settings
Enable configuration screen...	GPERR? /pel err rate GNPT? /pel err/hil PCET? /R,G,B err GFED? /info 1 st err
Select AnalyzerImages field...	
AnalyzerImages=ON...	
Select AutoBasedOn field...	
AutoBasedOn=MEASURED	
Select Pseudo Random Noise Setup field...	
Pseudo Random Noise=ON	
Set Pseudo Random Noise parameters...	
Exit configuration screen...	
Enable Analyzer Mode	
Read pixel errors detected per color...	R: 0 G: 21 B: 0
Read pixel error rate and pixels measured...	PER: pels/billion 4.255 0.880
Read expected and measured value of 1 st error...	
To stop the measurements...	

MEASURING PIXEL ERRORS WITH DELTA PATCH

Front Panel	Command Line
Set-Up: - Digital friendly mode - Connect HDMI/DVI source... - Connect HDMI/DVI display... - Select static video signal from source	HDMI or DVI cables
Select Analyzer image...	FMTL DMT0660 /example FMTU
Enable configuration screen...	PDSX 90 /patch start x pel PDSY 90 /patch start y pel PDSH 60 /patch height PDSW 90 /patch width ANIG 1 /analyzer img on PDAU /capture patch IMGL DeltaErr /load img IMGU /apply img
Select AnalyzerImages field...	
AnalyzerImages=ON...	
Select AutoBasedOn field...	
AutoBasedOn=MEASURED	
Select Delta Error Setup field...	
Delta Error Setup=ON	
Set Delta parameters...	
Exit configuration screen...	
Select DeltaErr image...	
Monitor results on display...	

Quick Reference Guide for the 802R/BT

How to use this guide

This quick reference guide is a useful memory aid that provides procedures for completing test operations (tasks) with your 802 series generator. Instructions are provided for each task both through the front panel and the command line interface. The front panel instructions are shown on the left for each task and the command line equivalent instructions are shown on the right side of each task.

A legend is provided as the first task (inside upper left) to help you become familiar with the symbols shown in the tasks.

To use the command line interface you will need a serial cable and a PC with a terminal emulation application such as hyperterminal. Connect the serial cable to the RS-232 port on the back of the generator. Launch hyperterminal and use the following settings:

- Baud rate = 2400 (default can be changed to 9600 and higher rates)
- Data bits = 8
- Parity = none
- Stop bits = 1
- Flow control = none

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"Quick Reference Guide for the 802R/BT"
Part # 68-00202 Rev. B
(03 - August - 2005)

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Quick Reference Guide for the 802R/BT

802 Series Video Test Generators

Generate (and optionally analyze) video signals associated with the design, manufacture, and service of computer, consumer, medical, military, and other video products.

- All DTV Formats
- CVBS and S-Video
- DVI to 330MHz
- HDMI to 165MHz
- Component and/or RGB/Y/PbPr to 400MHz
- LVDS OpenLDI/FPD-Link to 224MHz

DIGITAL ANALYZERS
DVI and HDMI analyzer options are available for functionally testing video cards, set-top boxes, cabling, distributed equipment, as well as monitors and DTVs.