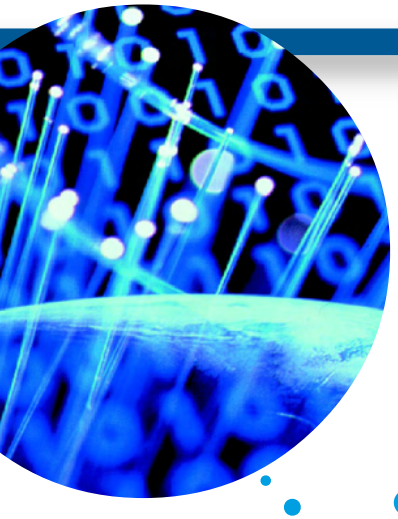
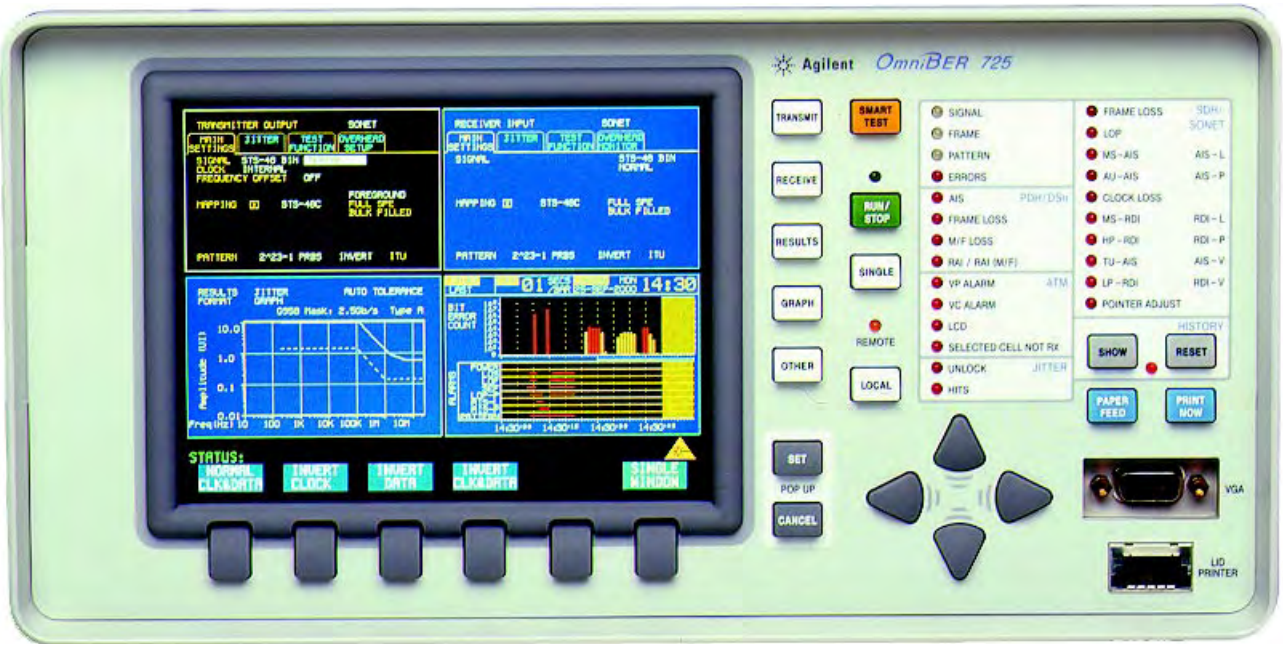


Quick Reference Guide

OmniBER 725

Agilent Technologies


Agilent OmniBER 725
TRANSMITTER OUTPUT
SONET
RECEIVER INPUT
SONET
STATUS:
NORMAL CLK&DATA
INVERT CLOCK
INVERT DATA
INVERT CLK&DATA
SINGLE WINDOW
TRANSMIT
RECEIVE
RESULTS
GRAPH
OTHER
SET
POP UP
CANCEL
SMART TEST
RUN/ STOP
SINGLE
REMOTE
LOCAL
SIGNAL
FRAME
PATTERN
ERRORS
AIS
PDH/DSn
FRAME LOSS
M/F LOSS
RAI / RAI (M/F)
VP ALARM
ATM
VC ALARM
LCD
SELECTED CELL NOT RX
UNLOCK
JITTER
HITS
FRAME LOSS
SDH/ SONET
LOP
MS-AIS
AIS-L
AU-AIS
AIS-P
CLOCK LOSS
MS-RDI
RDI-L
HP-RDI
RDI-P
TU-AIS
AIS-V
LP-RDI
RDI-V
POINTER ADJUST
HISTORY
SHOW
RESET
PAPER FEED
PRINT NOW
VGA
LID PRINTER

Introduction

This book describes how to to quickly access the main instrument functions and tasks.
The following examples use SDH applications. For SONET applications, replace [SDH] with [SONET]

Setting the Transmit Interfaces

Setting SDH Transmit Interface	TRANSMIT [SDH] MAIN SETTINGS
Setting Unframed SDH Transmit Interface	TRANSMIT [UNFRAMED SDH] MAIN SETTINGS
Setting SDH Jitter Transmit Interface (J1409A only)	TRANSMIT [SDH] JITTER
Setting SDH Wander Transmit Interface (J1409A only)	TRANSMIT [SDH] JITTER
Setting SDH THRU Mode	TRANSMIT [SDH] MAIN SETTINGS SIGNAL [THRU MODE]

Setting the Receive Interfaces

Using Smart Test	Smart Test
Using Smartsetup	Smart Test [RUN TEST] [RESCAN]
Setting SDH Receive Interface	RECEIVE [SDH] MAIN SETTINGS
Setting Unframed SDH Receive Interface	RECEIVE [UNFRAMED SDH] MAIN SETTINGS
Setting SDH Jitter Receive Interface	RECEIVE [SDH] JITTER

Selecting and Using Overhead Features

Using SDH Transmit Overhead Setup	TRANSMIT [SDH] OVERHEAD SETUP
Using SDH Receive Overhead Monitor	RECEIVE [SDH] OVERHEAD MONITOR
Setting SDH Overhead Trace Messages	TRANSMIT [SDH] OVERHEAD SETUP SETUP [TRACE MESSAGES]
Receiving SDH Trace Messages	RECEIVE [SDH] OVERHEAD MONITOR MONITOR [TRACE]
Setting SDH Signal Labels	TRANSMIT [SDH] OVERHEAD SETUP SETUP [LABEL]
Receiving SDH Signal Labels	RECEIVE [SDH] OVERHEAD MONITOR MONITOR [LABEL]
Setting SDH Synchronization Status Messages	TRANSMIT [SDH] OVERHEAD SETUP SETUP [LABEL] S1 SYNC STATUS
Receiving SDH Synchronization Status Messages	RECEIVE [SDH] OVERHEAD MONITOR MONITOR [LABEL]
Generating SDH Overhead Sequences	TRANSMIT [SDH] TEST FUNCTION TEST FUNCTION [SDH] [SEQUENCES]
Using SDH Receive Overhead Capture	RECEIVE [SDH] TEST FUNCTION TEST FUNCTION [SDH] [O/H CAPTURE]

Selecting and Using Signal Features

Adding Frequency Offset to the SDH Signal	TRANSMIT [SDH] MAIN SETTINGS CLOCK [INTERNAL] FREQUENCY OFFSET [ON]
Adding Errors & Alarms at the SDH Interface	TRANSMIT [SDH] TEST FUNCTION TEST FUNCTION [SDH] [ERR & ALARM]
Adding Errors in the test pattern	TRANSMIT [SDH] TEST FUNCTION TEST FUNCTION [PDH PAYLD]
Adding SDH Pointer Adjustments	TRANSMIT [SDH] TEST FUNCTION TEST FUNCTION [SDH] [ADJUST PTR]
Using SDH Pointer Graph Test Function	RECEIVE [SDH] TEST FUNCTION TEST FUNCTION [SDH] [PTR GRAPH]
Generating SDH Automatic Protection Switch (APS) Messages	TRANSMIT [SDH] TEST FUNCTION TEST FUNCTION [SDH] [APS MESSAGES]
Monitoring SDH Automatic Protection Switch (APS) Messages	RECEIVE [SDH] OVERHEAD MONITOR [APS MESSAGES]
Inserting Data Communications Channel, SDH	TRANSMIT [SDH] TEST FUNCTION TEST FUNCTION [SDH] [DCC INSERT]
Dropping Data Communications Channel, SDH	RECEIVE [SDH] TEST FUNCTION TEST FUNCTION [SDH] [DCC DROP]

Making Measurements

Transmitting SDH Overhead BER Test Function	TRANSMIT [SDH] TEST FUNCTION TEST FUNCTION [SDH] [OVERHEAD BER]
Receiving SDH Overhead BER Test Function	RECEIVE [SDH] TEST FUNCTION TEST FUNCTION [SDH] [OVERHEAD BER]
Test Timing	RESULTS RESULTS [TIMING CONTROL]
Making SDH Analysis Measurements	RESULTS RESULTS [SDH RESULTS] [ERROR ANALYSIS]
Measuring Jitter (J1409A only)	RESULTS RESULTS [JITTER]
Measuring SDH Frequency	RESULTS RESULTS [SDH RESULTS] [FREQUENCY]
Measuring SDH Optical Power	RESULTS RESULTS [SDH RESULTS] [OPTICAL POWER]
Results Summary	RESULTS RESULTS [SDH] {ERROR SUMMARY]
Trouble Scan	RESULTS RESULTS [TROUBLE SCAN]

Making Measurements (cont'd)

Performing an SDH Tributary Scan	TRANSMIT [SDH] TEST FUNCTION TEST FUNCTION [SDH TRIBSCAN] RESULTS RESULTS [SDH TRIBSCAN]
Performing an SDH Alarm Scan	RESULTS RESULTS [SDH ALM SCAN]
Measuring SDH Jitter Tolerance (J1409A only)	TRANSMIT [SDH] JITTER JITTER/WANDER [JITTER] JITTER [AUTO TOLERANCE]
Measuring SDH Jitter Transfer (J1409A only)	TRANSMIT [SDH] JITTER JITTER/WANDER [JITTER] JITTER [TRANSFER FUNCTION]

Storing, Logging and Printing

Enabling Graphics Results to Instrument Store	RESULTS [TIMING CONTROL] GRAPH STORAGE [resolution as required]
Recalling Stored Graph Results	GRAPH TEXT RESULTS STORE STATUS
Viewing the Bar Graph Display	GRAPH GRAPH RESULTS
Viewing the Graphics Error and Alarm Summaries	GRAPH TEXT RESULTS
Logging Graph Displays	OTHER FUNCTION [LOGGING] LOGGING SETUP [DEVICE]
Logging Results	OTHER FUNCTION [LOGGING] LOGGING SETUP [CONTROL]
Logging Results to Centronics Printer	OTHER FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [PARALLEL]
Logging Results to GPIB Printer	OTHER FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [GPIB]

Storing, Logging and Printing (cont'd)

Logging Results to Internal Printer (Option 602 only)	OTHER FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [INTERNAL]
Logging Results to RS-232-C Printer	OTHER FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [RS232]
Logging Jitter Tolerance Results (J1409A only)	OTHER FUNCTION [LOGGING] LOGGING SETUP [DEVICE]
Logging Jitter Transfer Results (J1409A only)	OTHER FUNCTION [LOGGING] LOGGING SETUP [DEVICE]

Using Instrument and Disk Storage

Storing Configurations in Instrument Store	OTHER FUNCTION [STORED SETTINGS]
Storing Current Configurations on Disk	OTHER FUNCTION [FLOPPY DISK]
Setting up a Title for Configurations in Instrument Store	OTHER FUNCTION [STORED SETTINGS]
Recalling Configurations from Instrument Store	OTHER FUNCTION [STORED SETTINGS]
Formatting a Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [DISK] [FORMAT]
Labeling a Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [DISK] [LABEL]
Managing Files and Directories on Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [FILE]
Adding Descriptors to Disk Files	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [DISK]
Saving Graphics Results to Disk	RESULTS [TIMING CONTROL] GRAPH STORAGE [DISK]
Saving Data Logging to Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [SAVE]
Recalling Configuration from Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [RECALL] FILE TYPE [CONFIGURATION]

Using Instrument and Disk Storage (cont'd)

Recalling Graphics Results from Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [RECALL] FILE TYPE [GRAPHICS]
Copying Configuration from Instrument Store to Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [COPY] [FROM:] [CONFIGURATION]
Copying Configuration from Disk to Instrument Store	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [COPY] [TO:] [CONFIGURATION]
Copying Graphics Results from Instrument Store to Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [GRAPHICS]
Deleting a File on Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [DELETE] [DELETE FILE] NAME [<select>]
Deleting a Directory on Disk	OTHER FUNCTION [FLOPPY DISK DISK OPERATION [FILE] [DELETE] [DELETE DIRECTORY]
Renaming a File on Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [RENAME]
Creating a Directory on Disk	OTHER FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [CREATE DIRECTORY]

Selecting and Using "Other" Features

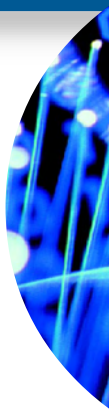
Coupling Transmit & Receive Settings	OTHER FUNCTION [SETTINGS CONTROL] TRANSMITTER AND RECEIVER [COUPLED]
Suspending Test on Signal Loss	OTHER FUNCTION [MISCELLANEOUS] SUSPEND TEST ON SIGNAL LOSS [ON]
MS-REI, MS-AIS, or REI-L, AIS-L Results Enable	OTHER FUNCTION [MISCELLANEOUS] MS-REI, MS-AIS, REI-L, AIS-L RESULT ENABLE
Setting Time & Date	OTHER FUNCTION [TIME & DATE]
Enabling Keyboard Lock	OTHER FUNCTION [MISCELLANEOUS] KEYBOARD LOCK [ON]
Enabling Beep on Received Error	OTHER FUNCTION [MISCELLANEOUS] BEEP ON RECEIVED ERROR [ON]
Setting Error Threshold Indication with Color Control	OTHER FUNCTION [COLOR CONTROL]

Selecting and Using "Other" Features (cont'd)

Dumping Display to Disk	OTHER FUNCTION [LOGGING] LOGGING SETUP [CONTROL] LOG ON DEMAND [SCREEN DUMP]
Setting Screen Brightness and Color with Color Control	OTHER FUNCTION [COLOR CONTROL]
Running Self Test	OTHER FUNCTION [SELF TEST]

In This Guide

Instructions on how to quickly select main instrument functions.



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