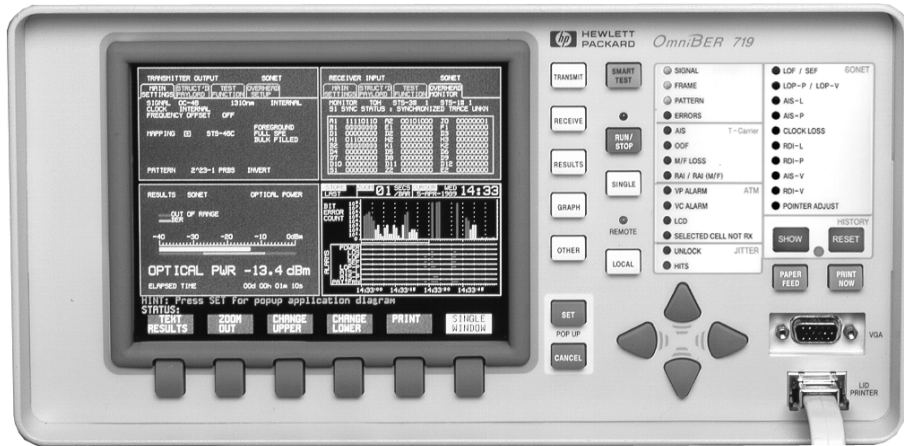


Quick Reference Guide

OmniBER 719



Agilent Technologies



Introduction

Use this book to quickly access the main instrument functions and tasks.

Setting the Transmit Interfaces

Setting PDH Transmit Interface	TRANSMIT	[PDH/DSn]	MAIN SETTINGS	
Setting SONET Transmit Interface	TRANSMIT	[SONET]	MAIN SETTINGS	
Setting Jitter Transmit Interface	TRANSMIT	[SONET]	JITTER	OR TRANSMIT [PDH/DSn] JITTER
Setting Wander Transmit Interface	TRANSMIT	[SONET]	JITTER	OR TRANSMIT [PDH/DSn] JITTER
Setting SONET THRU Mode	TRANSMIT	[SONET]	MAIN SETTINGS	SIGNAL [THRU MODE]
Setting PDH THRU Mode (DS1/DS3 only)	TRANSMIT	[PDH/DSn]	MAIN SETTINGS	DS1/DS3 [THRU MODE]
Setting ATM in the Transmitter	TRANSMIT	[SONET]	MAIN SETTINGS	MAPPING [][][ATM]
	TRANSMIT	[PDH/DSn]	MAIN SETTINGS	MAPPING [][][ATM]
Setting POS in the Transmitter	TRANSMIT	[SONET]	MAIN SETTINGS	MAPPING [][][POS]

Setting the Receive Interfaces

Using Smart Test	Smart Test [RUN TEST]
Setting PDH Receive Interface	RECEIVE [PDH/DSn] MAIN SETTINGS
Setting SONET Receive Interface	RECEIVE [SONET] MAIN SETTINGS
Setting Jitter Receive Interface	RECEIVE [SONET] JITTER OR RECEIVE [PDH/DSn] JITTER
Setting ATM in the Receiver	RECEIVE [SONET] MAIN SETTINGS MAPPING [] [] [ATM]
	RECEIVE [PDH/DSn] MAIN SETTINGS MAPPING [] [] [ATM]
Setting POS in the Receiver	RECEIVE [SONET] MAIN SETTINGS MAPPING [] [] [POS]

Selecting Test Features

Selecting and Using Overhead Features

Using Transmit Overhead Setup	TRANSMIT	[SONET]	OVERHEAD SETUP	
Using Receive Overhead Monitor	RECEIVE	[SONET]	OVERHEAD MONITOR	
Setting Overhead Trace Messages	TRANSMIT	[SONET]	OVERHEAD SETUP	SETUP [TRACE MESSAGES]
Generating Overhead Sequences	TRANSMIT	[SONET]	TEST FUNCTION	TEST FUNCTION [SONET] [SEQUENCE]
Using Receive Overhead Capture	RECEIVE	[SONET]	TEST FUNCTION	TEST FUNCTION [SONET] [O/H CAPTURE]
Using Transmit Overhead BER Test Function	TRANSMIT	[SONET]	TEST FUNCTION	TEST FUNCTION [SONET] [OVERHEAD BER]

Selecting and Using Signal Features

Adding Frequency Offset to the SONET Signal	<input type="button" value="TRANSMIT"/> [SONET] <input type="button" value="MAIN SETTINGS"/> CLOCK [INTERNAL] FREQUENCY OFFSET [ON]
Adding Frequency Offset to the PDH Signal	<input type="button" value="TRANSMIT"/> [PDH/DSn] <input type="button" value="MAIN SETTINGS"/> FREQUENCY OFFSET [<select>]
Setting up the Signaling Bits	<input type="button" value="TRANSMIT"/> [PDH/DSn] <input type="button" value="MAIN SETTINGS"/> SIGNAL [DS1] PAYLOAD TYPE [ESF] [STRUCTURED] <input type="button" value="STRUCT'D PAYLOAD"/> TEST SIGNAL [56 kb/s] DS1 ESF ABCD BITS [<select>]
Setting Transmit Structured Payload/Test Signal	<input type="button" value="TRANSMIT"/> [SONET] <input type="button" value="STRUCT'D PAYLOAD"/> OR <input type="button" value="TRANSMIT"/> [PDH/DSn] <input type="button" value="STRUCT'D SETTINGS"/>
Setting Receive Structured Payload/Test Signal	<input type="button" value="RECEIVE"/> [SONET] <input type="button" value="STRUCT'D PAYLOAD"/> OR <input type="button" value="RECEIVE"/> [PDH/DSn] <input type="button" value="STRUCT'D SETTINGS"/>
Connecting A Telephone Handset	<input type="button" value="TRANSMIT"/> [SONET] <input type="button" value="STRUCT'D PAYLOAD"/> TEST SIGNAL [64 kb/s] HANDSET [<select>] <input type="button" value="TRANSMIT"/> [PDH/DSn] <input type="button" value="STRUCT'D SETTINGS"/> TEST SIGNAL [64 kb/s] HANDSET [<select>]

Selecting and Using Signal Features (cont'd)

Setting Transmit N X 64 kb/s Structured Payload/Test Signal	TRANSMIT	[SONET]	STRUCT'D PAYLOAD	TEST SIGNAL [Nx64kb/s]
	TRANSMIT	[PDH/DSn]	STRUCT'D SETTINGS	TEST SIGNAL [Nx64kb/s]
Setting Receive N X 64 kb/s Structured Payload/Test Signal	RECEIVE	[SONET]	STRUCT'D PAYLOAD	TEST SIGNAL [Nx64kb/s]
	RECEIVE	[PDH/DSn]	STRUCT'D SETTINGS	TEST SIGNAL [Nx64kb/s]

Selecting and Using Signal Features (cont'd)

Inserting an External PDH Payload/Test Signal	TRANSMIT	[SONET]	STRUCT'D PAYLOAD	DS1 PAYLOAD [INSERT DS1/s]
	TRANSMIT	[PDH/DSn]	STRUCT'D SETTINGS	DS1 PAYLOAD [INSERT DS1/s]
Dropping an External Payload/Test Signal	RECEIVE	[SONET]	STRUCT'D PAYLOAD	DS1 PAYLOAD [DROP DS1/s]
	RECEIVE	[PDH/DSn]	STRUCT'D SETTINGS	DS1 PAYLOAD [DROP DS1/s]
Adding Errors & Alarms at the SONET Interface	TRANSMIT	[SONET]	TEST FUNCTION	TEST FUNCTION [SONET] [ERR & ALARM]
Adding Errors & Alarms to the PDH Interface/PDH Payload	TRANSMIT	[SONET]	TEST FUNCTION	TEST FUNCTION [PDH PAYLD] [ERR & ALARM]
Using FEAC Codes in the OmniBER	TRANSMIT	[PDH/DSn]	TEST FUNCTION	ALARM TYPE [DS3 FEAC]
Setting PDH Spare Bits	TRANSMIT	[SONET]	TEST FUNCTION	TEST FUNCTION [PDH PAYLD] [SPARE BITS]
Adding Pointer Adjustments	TRANSMIT	[SONET]	TEST FUNCTION	TEST FUNCTION [SONET] [ADJUST PTR]
Using Pointer Graph Test Function	RECEIVE	[SONET]	TEST FUNCTION	TEST FUNCTION [SONET] [PTR GRAPH]

Selecting and Using Signal Features (cont'd)

Generating Automatic Protection Switch Messages	TRANSMIT	[SONET]	OVERHEAD SETUP	SETUP [APS MESSAGES]
Inserting Data Communications Channel	TRANSMIT	[SONET]	TEST FUNCTION	TEST FUNCTION [SONET] [DCC INSERT]
Dropping Data Communications Channel	RECEIVE	[SONET]	TEST FUNCTION	TEST FUNCTION [SONET] [DCC DROP]
Setting ATM Transmitter Scrambling	TRANSMIT	[SONET]	ATM SETTINGS	SETUP [CONV SUBLAYER]SCRAMBLING [<select>]
	TRANSMIT	[PDH/DSn]	ATM SETTINGS	SETUP [CONV SUBLAYER] SCRAMBLING [<select>]
Setting ATM Receiver Scrambling	RECEIVE	[SONET]	ATM SETTINGS	SETUP [CONV SUBLAYER] SCRAMBLING [<select>]
	RECEIVE	[PDH/DSn]	ATM SETTINGS	SETUP [CONV SUBLAYER] SCRAMBLING [select>]
Setting up an ATM Foreground Signal	TRANSMIT	[SONET]	ATM SETTINGS	SETUP [FOREGROUND]
	TRANSMIT	[PDH/DSn]	ATM SETTINGS	SETUP [FOREGROUND]
Receiving an ATM Signal	RECEIVE	[SONET]	ATM SETTINGS	SETUP [HEADERS/PAYLOAD]
	RECEIVE	[PDH/DSn]	ATM SETTINGS	SETUP [HEADERS/PAYLOAD]

Selecting and Using Signal Features (cont'd)

Setting up ATM Errors and Alarms	TRANSMIT	[SONET]	ATM SETTINGS	TEST FUNCTION [ATM]
	TRANSMIT	[PDH/DSn]	ATM SETTINGS	TEST FUNCTION [ATM]
Setting ATM Policing Function	RECEIVE	[SONET]	ATM SETTINGS	SETUP [POLICING]
	RECEIVE	[PDH/DSn]	ATM SETTINGS	SETUP [POLICING]
Setting POS Transmitter HDLC Framing	TRANSMIT	[SONET]	POS SETTINGS	HDLC FRAMING <SELECT>
Setting POS Transmitter Scrambling	TRANSMIT	[SONET]	POS SETTINGS	SCRAMBLING <SELECT>
Setting POS Transmitter HDLC FCS	TRANSMIT	[SONET]	POS SETTINGS	HDLC FCS <SELECT>
Setting POS Transmitter IP Header	TRANSMIT	[SONET]	POS SETTINGS	SETUP [IP HEADER] <SELECT>
Setting POS Transmitter Packet Size/Gap	TRANSMIT	[SONET]	POS SETTINGS	SETUP [PACKET SIZE/GAP] <SELECT>
Setting up POS Transmitter IP Address	TRANSMIT	[SONET]	POS SETTINGS	SETUP [IP ADDRESS] <SELECT>

Selecting and Using Signal Features (cont'd)

Setting up POS Transmitter IP Payload	TRANSMIT	[SONET]	POS SETTINGS	SETUP [IP PAYLOAD] <SELECT>
Setting POS Errors and Alarms	TRANSMIT	[SONET]	TEST FUNCTION	TEST FUNCTION [POS]
Setting POS Receiver HDLC Framing	RECEIVE	[SONET]	POS SETTINGS	HDLC FRAMING ,SELECT>
Setting POS Receiver Descrambling	RECEIVE	[SONET]	POS SETTINGS	DESCRAMBLING <SELECT>
Setting POS Receiver HDLC FCS	RECEIVE	[SONET]	POS SETTINGS	HDLC FCS <SELECT>
Setting up POS Receiver payload	RECEIVE	[SONET]	POS SETTINGS	PAYLOAD <SELECT>

Making Measurements

Using Overhead BER Test Function	RECEIVE	[SONET] TEST FUNCTION TEST FUNCTION [SONET] [OVERHEAD BER]
Test Timing	RESULTS	RESULTS [TIMING CONTROL]
Making SONET Analysis Measurements	RESULTS	RESULTS [SONET RESULTS] [ERROR ANALYSIS]
Making PDH Analysis Measurements	RESULTS	RESULTS [PDH PAYLOAD] [ERROR ANALYSIS]
Measuring Jitter	RESULTS	RESULTS [JITTER]
Measuring Frequency	RESULTS	RESULTS [SONET] [FREQUENCY]
Measuring Optical Power	RESULTS	RESULTS [SONET] [OPTICAL POWER]
Measuring Round Trip Delay	RESULTS	RESULTS [PDH PAYLOAD] [TRIP DELAY]
Measuring Service Disruption Time	RESULTS	RESULTS [SERVICE DISRUPT]

Making Measurements (cont'd)

Performing a SONET Tributary Scan	RESULTS	RESULTS [SONET TRIB SCAN]
Performing a SONET Alarm Scan	RESULTS	RESULTS [SONET ALM SCAN]
Performing a PDH Alarm Scan	RESULTS	[PDH ALM SCAN]
Measuring Jitter Tolerance	TRANSMIT	[PDH/DSn] JITTER JITTER [TOLERANCE]
Measuring Jitter Transfer	TRANSMIT	[PDH/DSn] JITTER JITTER [TRANSFER FN]
Measuring ATM Service Disruption	RESULTS	RESULTS [SRVC DISRUPT]
Measuring ATM results	RESULTS	RESULTS [ATM PAYLOAD]
Measuring POS results	RESULTS	RESULTS [POS PAYLOAD]

Storing, Logging and Printing

Saving Graphics Results to Instrument Store	RESULTS	[TIMING CONTROL] GRAPH STORAGE [1 MIN RESOL'N]
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
Test Period Logging	OTHER	FUNCTION [LOGGING] TEST PERIOD LOGGING [ON]
Logging Results to Centronics Printer	OTHER	FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [PARALLEL]
Logging Results to HP-IB Printer	OTHER	FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [HP-IB]
Logging Results to Internal Printer	OTHER	FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [INTERNAL]

Storing, Logging and Printing (cont'd)

Logging Results to RS-232-C Printe	<input type="button" value="OTHER"/>	FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [RS232]
Logging Results Content	<input type="button" value="OTHER"/>	FUNCTION [LOGGING] SETUP [CONTENT]
Logging Results Period	<input type="button" value="OTHER"/>	FUNCTION [LOGGING] SETUP [PERIOD]

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	<input type="button" value="OTHER"/>	FUNCTION [SETTINGS CONTROL] TRANSMITTER AND RECEIVER [COUPLED]
Suspending Test on Signal Loss	<input type="button" value="OTHER"/>	FUNCTION [MISCELLANEOUS] SUSPEND TEST ON SIGNAL LOSS [ON]
MS-REI Results Enable	<input type="button" value="OTHER"/>	FUNCTION [MISCELLANEOUS] MS-REI RESULT ENABLE
Inband DS1 Loopcode 156MTS Compatibility	<input type="button" value="OTHER"/>	FUNCTION [MISCELLANEOUS] INBAND DS1 LOOPCODE 156MTS COM-
Setting Time & Date	<input type="button" value="OTHER"/>	FUNCTION [TIME & DATE]
Enabling Keyboard Lock	<input type="button" value="OTHER"/>	FUNCTION [MISCELLANEOUS] KEYBOARD LOCK [ON]
Enabling Beep on Received Error	<input type="button" value="OTHER"/>	FUNCTION [MISCELLANEOUS] BEEP ON RECEIVED ERROR [ON]
Setting Error Threshold Indication	<input type="button" value="OTHER"/>	FUNCTION [COLOR CONTROL]

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

Dumping Display to Disk	<input type="button" value="OTHER"/>	FUNCTION [LOGGING] SETUP [DEMAND] LOG ON DEMAND [SCREEN DUMP]
Setting Screen Brightness and Color	<input type="button" value="OTHER"/>	FUNCTION [COLOR CONTROL]
Running Self Test	<input type="button" value="OTHER"/>	FUNCTION [SELF TEST]
Selecting Trigger Output	<input type="button" value="OTHER"/>	FUNCTION [TRIGGER OUTPUT]

In This Guide

Instructions on how to quickly
select main instrument functions.

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