



## Driver for Front Card Functions

### Wavelength Setting

Card Name	;Function key name	Function
Wavelength	Start/Stop	Set a start wavelength, stop wavelength
Wavelength	Center/Span	Set a center wavelength, sweep span
Wavelength	Set Span	Set a sweep span
Wavelength	Air/Vacuum	Switch between wavelength display modes (in Air/Vacuum)

### Level Setting

Card Name	;Function key name	Function
Level Scale	Log/Linear	Set a log/linear scale
Level Scale	REF Level	Set a reference level.
Level Scale	Opt.ATT Off/On	Turn on/off the internal optical attenuator

### Resolution and Average Setting

Card Name	;Function key name	Function
Res/BW/Avg	Res/BW/SmplPt	Set resolution, video bandwidth, or number of sampling points.
Res/BW/Avg	Actual Resolution	Switch between actual resolution display modes.
Res/BW/Avg	Average	Set Point/Sweep Average or Smooth.

### Peak and Dip Detection

Card Name	;Function key name	Function
Peak/Dip	Peak/DipSearch(1)	Detect a peak/dip whose level is highest.
Peak/Dip	Peak/DipSearch(2)	Detect a peak/dip whose level is second lowest/highest or a peak/dip whose wavelength is right/left shortest/longest.
Peak/Dip	Set Search Threshold	Set search threshold Auto or Manual.
Peak/Dip	Search Threshold	Set search threshold value.
Peak/Dip	Peak to Peak Calculation	Set Peak to Peak calculation.
Peak/Dip	Peak to Peak Query	Get value of Peak to Peak

**Waveform Analysis**

Card Name	;Function key name	Function
Analysis	Threshold	Threshold analysis
Analysis	ndB-Loss	ndB-Loss analysis
Analysis	SMSR	SMSR analysis
Analysis	Envelope	Envelope analysis
Analysis	RMS	RMS analysis
Analysis	Spectrum Power	Power integration
Analysis	Analysis Off	Terminate the Analysis mode

**Trace setting**

Card Name	;Function key name	Function
Trace	Set Storage/Trace	Set the storage/Trace type.
Trace	Display Trace	Set the display trace.
Trace	Active Trace	Set the active trace.
Trace	Set Graph Mode	Switch the graph display normal/normalize.
Trace	Erase Overlap	Erase overlap graph data.

**Applicable measurement function**

Card Name	;Function key name	Function
Appli	DFB-LD Test	Evaluate DFB-LD.
Appli	FP-LD Test	Evaluate FP-LD.
Appli	LED Test	Evaluate LED.
Appli	PMD Test	Evaluate PMD.
Appli	LD-Module Test	Evaluate LD Module.
Appli	Opt.Amp Mode	Evaluate Optical Amplifier. Set the "Opt.Amp mode"
Appli	Opt.Amp Result	Evaluate Optical Amplifier. Output the measurement results
Appli	Opt.Amp-Parameter	Evaluate Optical Amplifier. Set parameters.
Appli	Opt.Amp-Pin/Pout	Evaluate Optical Amplifier. Switches between signal light types (Pin/Pout).
Appli	Opt.Amp-Pout to ase	Evaluate Optical Amplifier. Copy Pout data to the Pase trace.
Appli	Opt.Amp-Res.cal	Evaluate Optical Amplifier. calibrate

		resolution.
Appli	WDM Test Multi Peak	Evaluate WDM-Multi peak measurement. Set parameters and output results.
Appli	WDM Test Relative	Evaluate WDM-Relative measurement. Set parameters and output results.
Appli	WDM Test SNR	Evaluate WDM-SNR measurement. Set parameters and output results.
Appli	WDM Test Table	Evaluate WDM-Table measurement. Set parameters and output results.
Appli	Application Off	Terminate the Applicable measurement mode.

### Special measurement modes

Card Name	;Function key name	Function
MeasureMode	D.Range Norm/High	Switch between High-dynamic range measurement/normal-dynamic range mode
MeasureMode	Ext.Trigger	External synchronization measurement
MeasureMode	Power Monitor	Power monitor measurement
MeasureMode	MM_Mode	Multi-mode fiber measurement
MeasureMode	MeasureMode Off	Terminate the measurement mode

### Calibration function

Card Name	;Function key name	Function
Cal	Offset	Set a wavelength or level offset
Cal	Wl Calibration	Calibrate a wavelength or initialize calibration data.
Cal	Auto Alignment	Aligns the optical axis automatically.
Cal	Zero Calibration	Execute the internal mechanical/power level zero-offset calibrating.
Cal	Auto Offset	Execute the offset adjustment automatically when VBW is switched.

**Markers**

Card Name	;Function key name	Function
Marker	Wl Marker	Set/read a wavelength marker.
Marker	Lvl Marker	Set/read a level marker.
Marker	Trace Marker	Set/read a trace marker.
Marker	Delta Marker	Set/read a delta marker.
Marker	Marker Erase	Erase a marker.

**Zone Makers**

Card Name	;Function key name	Function
Zone Marker	Set/Erase	Set/erase zone markers.
Zone Marker	Zone to Span	Set the center and span of zone markers.
Zone Marker	Zoom Out/In	Zoom in/out the zone markers.

**Other functions**

Card Name	;Function key name	Function
Others	Opt.Out Off/On	Turn on/off the Light source for calibration (available for option 002)
Others	Title	Input the title

**Front Panel Keys function**

Panel Key Function	Function
Peak To Center	Set the peak wavelength to the center wavelength.
Peak To Ref Level	Set the peak power level to the reference level.
Sweep Start	Start single/repeat sweep.
Sweep Stop	Stop sweep.
Auto Measurement Start	Start automatic measurement.
Save/Recall/Copy	Save, recall, copy, delete data.
Data Condition	Read the measurement condition data of selected trace.

**Utilities**

Panel Key Function	Function
Initialize	Start communication.
Close	Terminate communication.
Error Message	Display error messages
Error Message Japanese	Display error messages (Japanese).
Reset	Reset the MS9740B.

**Others**

Panel Key Function	Function
Initialize	Start communication.
Close	Terminate communication.
Error Message	Display error messages
Error Message Japanese	Display error messages (Japanese).
Reset	Reset the MS9740B