BUY – SELL – REPAIR – CALIBRATE
sales@simbol.ca 1-866-396-6248

Simbol Test Systems is the one-stop shop for all your fiber optic test equipment and measurement needs. As we are focused on e-commerce and international distribution of photonic products exclusively since 2000, our customers rely on our **AssetRelay** catalog to find stock listings of thousands of used and refurbished popular test equipment and they know they can get repair, customization and calibration services from our laboratory for their own fiber optic instruments from all renowned brand manufacturers.

If you wish to buy or sell an AQ6319x, visit our catalog here to see our current stock with actual photos; our refurbished units with floppy drives replaced by USB, new bezel, new side bumpers and other upgrades look quite good!

Yokogawa AQ6319x Optical Spectrum Analyzer (OSA) Calibration and Repair Services

With more than 20 years of expertise in repair of OSA, Tunable Lasers, Wavemeters and more, the quality of our services is renowned amongst the service centers community and highly appreciated by our partners and customers. We developed custom software allowing us to perform automatic calibration tests and write up to date results in the OSA calibration tables. Don't settle for a two-page summary assessment to trust that your OSA is operating on the full range; our report contains the complete table of results, confirming it has really been tested.

Yokogawa AQ6319x Optical Spectrum Analyzer (OSA) Repair and Calibration Services

The AQ6319x OSA goes through a calibration process to ensure it meets or exceeds manufacturers published specifications. The equipment is shipped with a comprehensive 9-page calibration report including before-and-after data, a calibration sticker and its own dated calibration certificate.

Simbol Test Systems is the only North America independent lab with the capability of mechanically realigning Ando/Yokogawa monochromators as found in the AQ6319x. If your unit does not pass calibration, we will quote a complete repair and get your OSA back to perfect working condition.

List of specifications calibrated

- Optical Alignment
- Wavelength Calibration with Internal Cell
- Wavelength Accuracy calibration with external source
- Wavelength Resolution Accuracy
- Wavelength Reproducibility
- Dynamic Range
- Level Accuracy
- Level Flatness
- Level Response
- Waveform Symmetry, Flatness and Ripple
- Stability

Traceability: Instrumentation used during this calibration is traceable to N.I.S.T (National Institute of Standards and Technology) or C.N.R.C. (Canadian National Research Council.

Caractéristiques	AQ6315 A/B	AQ6315 E	AQ6317
Pre-calibrated	C Band	C Band	C & L-Band
Measurement range	350-1750 nm	350-1750 nm	600-1750nm
Wavelength accuracy	+/- 0.5 nm full spectrum, +/- 0.05 nm (1510 to 1570 nm)	+/- 0.5 nm full spectrum, +/- 0.05 nm (1510 to 1570 nm)	+/- 50pm (1510 to 1580 nm) +/- 500pm (600 to 1750 nm)
Wavelength Linearity	+/- 0.02 nm (1510 to 1570 nm)	+/- 0.02 nm (1510 to 1570 nm)	+/- 0.01nm (1510 to 1580 nm) Resolution setting at 0.01nm
Wavelength Repeatability	+/- 5pm (1 min)	+/- 5pm (1 min)	+/- 5pm (1 min)
Wavelength Resolution	0.05 to 10nm	0.05 to 10 nm (single M-mode) ;0.05 to 5 nm (double M-mode)	15pm (1510 to 1620 nm)
Resolution Accuracy	N/A	N/A	+/- 5% (1300 to 1650 nm) resolution setting at 0.05 nm or more
Measurement Level Range	- 90 to +20dBm (1000 to 1600 nm) - 85 to +20dBm (600 to 1200 nm) - 75 to +20dBm (350 to 1750 nm)	- 90 to +20dBm (1000 to 1600 nm) - 85 to +20dBm (600 to 1200 nm) - 75 to +20dBm (350 to 1750 nm)	- 90 to +20dBm (1200 to 1650 nm, SENS: High 3) - 80 to +20dBm (600 to 1200 nm, SENS: High 3) - 60 to +20dBm (600 to 1750 nm, SENS: High 3)
Level Accuracy	+/- 0.3 dB (at 633/1310/1550 nm)	+/- 0.3 dB (at 633/1310/1550nm)	+/- 0.3 dB (1310/1550 nm, input: -30dBm, sensitivity: HIGH 1-3
Level Linearity	+/- 0.05 dB (0 to -20 dBm)	+/- 0.05 dB (0 to -20 dBm)	+/- 0.05 dB (input: +10 to -50 dBm, sensitivity: HIGH 1-3
Level Flatness	N/A	N/A	+/- 0.1 dB (1510 to 1580 nm)
Polarization dependency	+/- 0.01dB (single M-mode), +/- 0.05 dB (double M-mode)	+/- 0.01dB (single M-mode), +/- 0.05 dB (double M-mode)	+/- 0.05 dB (1550 nm) +/- 0.05 dB typ. (1310 nm)
Dynamic Range	70 dB (+/-1nm, 633/1152/1523) 60 dB (+/- 0.5 nm, 633/1152/1523 nm)	70 dB (+/-1nm, 633/1152/1523) 60 dB (+/- 0.5 nm, 633/1152/1523 nm)	60dBm (1523 nm, peak +/- 0.2 nm, res: 0.01 nm) 70dBm (1523 nm, peak +/- 0.4 nm, res: 0.01 nm)
Sensitivity Modes		-40 dB Spectral Width: 0.45 nm or less	
Max. Input Power	+ 20 dBm	+ 20 dBm	+ 20 dBm
New Functions	AQ6315B has a monochrometer output port!	AQ6315 E is similar to AQ6315A with only two new specs.	

Caractéristiques	AQ6317B	AQ6317C	NEW AQ6319
Pre-calibrated	C & L-Band	S & C & L-Band	S & C & L-Band
Measurement range	600-1750nm	600-1750nm	600-1700nm
Wavelength accuracy	+/- 20pm (1520 to 1580 nm) +/- 40pm (1580 to 1620 nm) +/- 500pm (600 to 1750 nm)	+/- 20pm (1520 to 1580 nm) +/- 40pm (1450 to 1520nm & 1580 to 1620 nm) +/- 100pm (600 to 1750 nm)	±10 pm (1520 to 1580nm) ±20 pm (1450 to 1520nm) ±20 pm (1580 to 1620nm) ±50 pm (Full range)
Wavelength Linearity	+/- 0.01nm (1520 to 1580 nm) +/- 0.02nm (1580 to 1620 nm)	+/- 0.01nm (1520 to 1580 nm) +/- 0.02nm (1450 to 1520nm & 1580 to 1620 nm)	±10 pm (1520 to 1580nm) ±20 pm (1450 to 1520nm) ±20 pm (1580 to 1620nm)
Wavelength Repeatability	+/- 5pm (1 min)	+/- 5pm (1 min)	±2pm (1min. or less, 1450 to 1620nm)
Wavelength Resolution	15pm (1520 to 1620 nm)	15pm (1520 to 1620 nm)	10pm
Resolution Accuracy	+/- 5% (1300 to 1650 nm) resolution setting at 0.05 nm or more	+/- 5% (1300 to 1650 nm) resolution setting at 0.05 nm or more	±2% (RES.: 0.05nm or wider, 1450 to 1620nm) ±3% (RES.: 0.02nm, 1450 to 1620nm) ±7% (RES.: 0.01nm, 1520 to 1620nm)
Measurement Level Range	- 90 to +20dBm (1200 to 1650 nm, SENS: High 3) - 80 to +20dBm (1000 to 1200 nm, SENS: High 3) - 60 to +20dBm (600 to 1000 nm, SENS: High 3)	- 90 to +20dBm (1200 to 1650 nm, SENS: High 3) - 80 to +20dBm (1000 to 1200 nm, SENS: High 3) - 60 to +20dBm (600 to 1000 nm, SENS: High 3)	
Level Accuracy	+/- 0.3 dB (1310/1550 nm, input: -30dBm, sensitivity: HIGH 1-3	+/- 0.3 dB (1310/1550 nm, input: -30dBm, sensitivity: HIGH 1-3	±0.3dB (1550/1600nm, 0/-20dBm, RES.: 0.02nm or wider) ±0.3dB (1310nm, 0/-20dBm, RES.: 0.05nm or wider)
Level Linearity	+/- 0.05 dB (input: +10 to -50 dBm, sensitivity: HIGH 1-3	+/- 0.05 dB (input: +10 to -50 dBm, sensitivity: HIGH 1-3	±0.05dB (-50 to +10dBm, RES.: 0.02nm or wider, SENS.: HIGH1 to 3)
Level Flatness	+/- 0.1 dB (1520 to 1580 nm) +/- 0.2 dB (1580 to 1620 nm)	+/- 0.1 dB (1520 to 1580 nm) +/- 0.2 dB (1450 to 1520nm & 1580 to 1620 nm)	±0.1dB (1520 to 1620nm, -20dBm, RES.: 0.02nm or wider)
Polarization dependency	+/- 0.05 dB (1550/1600 nm) +/- 0.05 dB typ. (1310 nm)	+/- 0.05 dB (1550/1600 nm) +/- 0.05 dB typ. (1310 nm)	±0.05dB (1520 to 1620nm, RES.: 0.02nm or wider) ±0.07dB (1450 to 1520nm, RES.: 0.02nm or wider) ±0.07dB typ. (1310nm, RES.: 0.05nm or wider)
Dynamic Range	60dBm (1523 nm, peak +/- 0.2 nm, res: 0.01 nm) 70dBm (1523 nm, peak +/- 0.4 nm, res: 0.01 nm) 45dBm (1523 nm, peak +/- 0.2 nm, res: 0.1 nm)	60dBm (1523 nm, peak +/- 0.2 nm, res: 0.01 nm) 70dBm (1523 nm, peak +/- 0.4 nm, res: 0.01 nm) 45dBm (1523 nm, peak +/- 0.2 nm, res: 0.1 nm)	40dB (±50pm from peak at 1523nm, RES.: 0.01nm) 60dB (±100pm from peak at 1523nm, RES.: 0.01nm) 70dB (±200pm from peak at 1523nm, RES.: 0.01nm) 60dB (±200pm from peak at 1523nm, RES.: 0.1nm)
Sensitivity Modes	**Noise floor**: - 65 dBm (Sens: NORM AUTO) - 65 dBm (Sens: NORM HOLD, depends ref. lev.) - 70 dBm (Sens: MID) - 80 dBm (Sens: High 1, with chop motor) - 85 dBm (Sens: High 2, with chop motor) - 90 dBm (Sens: High 3, with chop motor)	**Noise floor**: - 65 dBm (Sens: NORM AUTO) - 65 dBm (Sens: NORM HOLD, depends ref. lev.) - 70 dBm (Sens: MID) - 82 dBm (Sens: High 1, with chop motor) - 87 dBm (Sens: High 2, with chop motor) - 90 dBm (Sens: High 3, with chop motor)	**Noise floor:** -90dBm (1250 to 1620nm, RES.: 0.05nm or wider, SENS.: HIGH3) -80dBm (1000 to 1250nm, RES.: 0.05nm or wider, SENS.: HIGH3) -60dBm (800 to 1000nm, 1620 to 1680nm, RES.: 0.05nm or wider, SENS.: HIGH3)
Max. Input Power	+ 20 dBm	+ 20 dBm	**Maximum input power** +23dBm (Per channel, Full span, Attenuation on) a **Maximum safe power** +27dBm (Total safe power, Attenuation on)
New Functions		New functions are available such as template check function for "Go/No Go" testing, external Gas cell calibration function in addition to WDM analysis function and programming function. Also in NF analysis of optical amplifier, curve fit function and SSE suppress function are added for the most demanding multichannel NF analysis.	User Friendly GUI & Powerful Functions Easy Operation with Mouse/Keyboard Waveform Zooming & Overview window Multiple Interfaces (GP-IB, LAN, Printer, etc.) Large Data Storage Area & Fast Data Transfer(FTP) Enhanced Built-in Applications