



# Ultra OSA

Like a regular OSA but FAST!

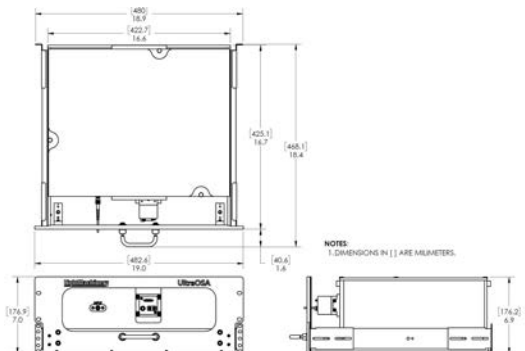
The Optical Spectrum Analyzer has been a work horse for the telecommunications industry for decades. We thought it was time to revolutionize the performance of the OSA and re-think the design of the instrument. The Ultra-OSA solves the biggest drawback of the technology (speed) while retaining the resolution and sensitivity.

## Features

- No moving parts (single shot laser spectrum analysis)
- Simple to use
- Sub 30pm picometer resolution
- Fiber optic input
- FAST >40Hz data acquisition and export
- Simple USB interface
- LabView Drivers

## Benefits

- Can measure spectra from cw and pulsed sources
- Fast real time measurements
- Ultra-reliable
- LightMachinery's legendary customer support



## Specifications

- High sensitivity InGaAs camera
- Acquisition and processing time: <25 msec for the complete spectrum
- Continuous Spectra at 40Hz
- Resolution: sub 50pm at 1550nm (resolving power > 30,000 to >300,000)
- Simultaneous range / resolution: >2000 at 1550nm
- Accuracy: based on an external calibration source is required
- Dynamic Range: 100:1 to 500:1 in a single shot measurement, up to 50dB with exposure bracketing
- Wavelength range: NIR (1260nm to 1675nm)

Part Number	Spectral Region	Wavelength Range (nm)	Resolution (pm)
UO-10785-HRO	O Band	1260 - 1360	40
UO-10785-URO	O Band	10 within 1260 - 1360	4
UO-10786-HRE	E Band	1360 - 1460	40
UO-10786-URE	E Band	10 within 1360 - 1460	4
UO-10787-HRS	S Band	1460 - 1530	30
UO-10787-URS	S Band	10 within 1460 - 1530	4
UO-10788-LRCL	C & L Band	1525 - 1650	50
UO-10788-HRC	C Band	1530 - 1565	15
UO-10788-URC	C Band	10 within 1530 - 1565	4
UO-10789-HRL	L Band	1565 - 1625	24
UO-10789-URL	L Band	10 within 1565 - 1625	4
UO-10790-HRU	U Band	1625 - 1675	20
UO-10790-URU	U Band	10 within 1626 - 1675	4

\* Other wavelength ranges and resolutions available by request

\*\* Prices listed are FCA LightMachinery. Please contact your local distributor for prices in your region