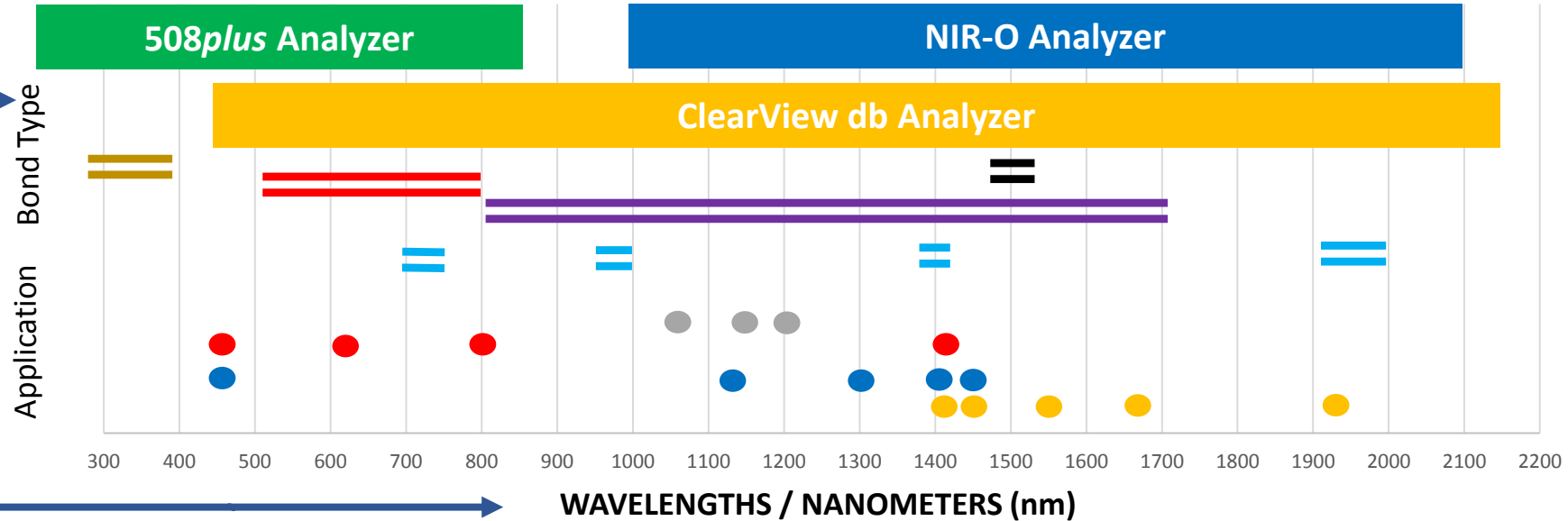


1 What is being Measured?

Calibration Wavelengths by Bond Type

- Color Metals
- R-CH Carbon Hydrogen Bonds
- R-OH Alcohols, Phenol Bonds
- N-H Nitrogen Bonds
- UV Absorbers (chlorine)



2 Choose Best Analyzer

Match Wavelength Range to Analyzer

Analyzer Purpose or Application	508plus	ClearView® db	NIR-O™
Wavelength Range Required for Measurements	UV-VIS 200 – 850 nm	VIS-NIR 450 – 2150 nm	NIR 1000 -2100 nm
Diode Array - Spectrometer	X		
Full Spectrum – DG-NIR Spectrometer			X
Dedicated Spectrum – Filter Photometer		X	
Complex Samples with Variable Chemistries	X		X
Complex Samples with Many Measurements	X		X
Simple Well-Characterized Process		X	
Number of Measurements (answers / results)	16 per Channel	6	Unlimited
Maximum Number of Sample Points (locations)	4	2	12

508plus

UV Absorbers:
Chlorine
Benzene

ClearView db

Filter Locations:
 Acid Number
 ASTM / Saybolt
 Caustic in Water
 Polyol

Measurement / Application Solutions

Some Examples by Analyzer

NIR-O

Refinery Physical Properties (RON/MON)
 Spandex (Composition during reaction)
 PONA
 Plastics (OH/Acid Number)
 Solvent Composition
 Acrolein Process (Water in reaction)