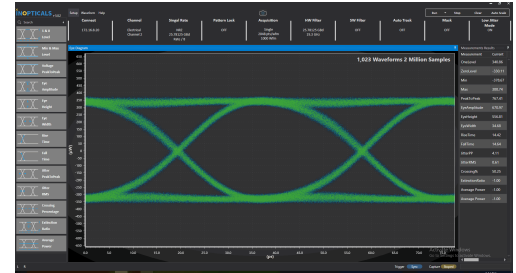


Eye Analyzer

Optical & Electrical Sampling Scope of 400G/100G

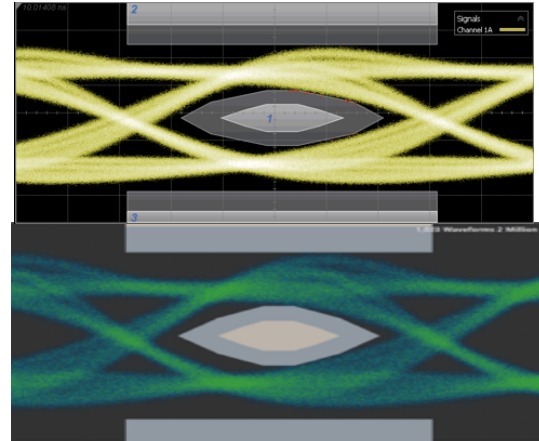
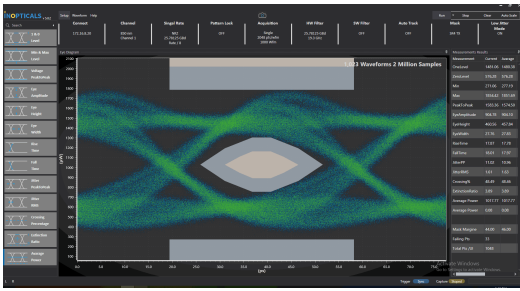
- Ultra fast 1M samples/s, measure 1000 waveforms in 2 seconds. (2000 samples/waveform)
- Optical receiver support Single-Mode and Multi-Mode
- Low Cost version for Single-Mode only for production
- Compatible and Repeatable Measurement with Tier-1 Scope
- Support PRBS31 Pattern Lock_(Option)
- Build-in Low Jitter Mode function_(Option)



• Specification

Electrical	Value	Unit	Note
Bandwidth	33	GHz	Typical, 3dB bandwidth
Input Range	1.0	V _{diff,pp}	Max
Damage Amplitude	1.7	V _{diff,pp}	Max
Connector Type	K(f)		50 Ohm
Sampling Speed	1,000,000	sample/s	
Pattern Lock	PRBS7~31		Option
Return Loss	-6.5	dB	@32GHz
RMS Noise	2.0 / 2.5	mV	Typical/Max.
Optical	Value	Unit	Note
Bandwidth	33	GHz	For 28G Optical
	8.8		For 10G Optical
Wavelength	830-1600	nm	Full range model of 28G
	1250-1600		SMF model of 28G
	780-1600	nm	For 10G Optical
Optical Return Loss	-24	dB	Full range model
	-30		SMF model
Input Sensitivity (Mask Margin no impact)	+1 to -3	dBm	For 28G Optical
	+1 to -6		Option for 28G model
	-+1 to 12		For 10G Optical
Damage Amplitude	8	mW	Max
Connector Type	FC (50/125)		
Clock	Value	Unit	Note
Clock Input	/8, /16, /32, /64		Low Jitter Mode Option
Amplitude Input	<1000	mV	

• **Compatible and Repeatable Measurement with Tier-1 Scope**



Compatible Measurement Result

Exactly Same Eye Sharpening Compare with Tier-1 Scope

	Jpp	Jrms	EMM	Avg P	FT	ER
INO	11.02ps	1.69ps	43%	0.1dBm	18.06ps	3.87dB
Tier-1	10.68ps	1.63ps	42.6%	0.1dBm	18.26ps	3.89dB

• **Order Information**

Model Number	Description	Note
EA7110	10G Optical Scope with 10G Filter (830~1600nm)	Multi-Mode and Single-Mode Supported
EA7111	10G O/E Scope, 1CH Optical with 10G Filter (830~1600nm) and Electrical (Differential)	
EA7210	28G Optical Scope (830~1600nm)	
EA7220	2x28G Optical Scope (830~1600nm)	
EA7211	28G O/E Scope, 1CH Optical (830~1600nm) and Electrical (Differential)	
EA7310	28G Optical Scope(SMF) (1250~1600nm)	Best for Single-Mode production line
EA7320	2x28G Optical Scope (SMF) (1250~1600nm)	
EA7311	28G O/E Scope, 1CH Optical (1250~1600nm) and 1CH Differential Electrical (SMF)	
EA7201	33GHz Digital Electrical Scope (Differential)	Best for Electrical EYE
EA7202	2x33GHz Digital Electrical Scope with K connector (Differential)	
EA711x-LPF	Low Pass Filter for 1.25G/2.5G/8.5G (for EA7110/EA7111 install insided)	Optional HW Filter
EA7000-LJM	Low Jitter Mode Hardware Option	Non-upgradable after delivery
EA7000-LPL	Long Pattern Lock Hardware Option (Support PRBS7~31/31Q)	
EA7000-HS	High Sensitivity Hardware for Optical (+1 to -6dBm)	Upgradable after delivery