## EA-4000 Eye Analyzer

**OPTICAL AND ELECTRICAL SAMPLING SCOPE** 



The fastest sampling scope in the industry. A powerful solution for the 5G production line.

## **KEY FEATURES**

Ultra-fast 1M sample/s, measures 1000 waveforms in 2 seconds (2000 sample/waveform)

Optical receiver support singlemode and multimode

Repeatable measurements and comparable to tier-1 scope

Built-in low jitter mode (optional)

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## **COMPELLING EYE SHARPENING FOR PRODUCTION TESTING**



Intuitive GUI for NRZ eye diagrams

SPECIFICATIONS	
Electrical	
Sampling speed (sample/s)	1,000,000
Bandwidth (GHz)	33 (typical at 3 dB bandwidth)
Input range (V <sub>ppd</sub> )	1.0 (max.)
Damage amplitude (V <sub>ppd</sub> )	1.7 (max.)
Connector type	K(f) (50 Ω)
Return loss (dB)	-6.5 (at 32 GHz)
RMS noise (mV)	2.0 (typical) / 2.5 (max.)
Optical	
Bandwidth (GHz)	33 (for 28G optical)
Wavelength (nm)	830-1600 (full range model of 28G) 1250-1600 (SMF model of 28G) 780-1600 (for 10G optical)
Return loss (dB)	-24 (full range model) -30 (SMF model)
Input sensitivity (dBm) (mask margin 0 %, hit ratio 0)	−8 (typical at 850 nm) −10 (typical at 1310 nm)
Maximum power (mW)	8
Connector type	FC/PC (50/125 μm) (full range model) FC/PC (9/125 μm) (SMF model)
Clock	
Clock input ratio	/8, /16, /32, /64 (low jitter mode option)
Trigger jitter (fs)	<290 (typical)
Sensitivity (mV)	100 (typical)



## ORDERING INFORMATION EA-4000-XX-XX Model Coptions 28-10-SM\* = 28G optical scope (830 nm - 1600 nm) 28-20-SM\* = 2x28G optical scope (830 nm - 1600 nm) 28-11-SM\* = 28G O/E scope, 1CH optical (830 nm - 1600 nm) and electrical (differential) 28-10-S\* = 28G optical scope (SMF) (1250 nm - 1600 nm) singlemode 28-20-S\* = 2x28G optical scope (SMF) (1250 nm - 1600 nm) singlemode 28-11-1.5\* = 28G O/E scope, 1CH optical (1250 nm - 1600 nm) and 1CH differential electrical (SMF) singlemode 28-11-1.5\* = 28G O/E scope, 1CH optical (1250 nm - 1600 nm) and 1CH differential electrical (SMF) singlemode 28-11-1.5\* = 28G O/E scope, 1CH optical (1250 nm - 1600 nm) and 1CH differential electrical (SMF) singlemode 33-0-2-E\* = 2CH 33 GHz digital electrical scope with K connector (differential). Best for electrical EYE 33-0-2-E\* = 2CH 33 GHz digital electrical scope with K connector (differential). Best for electrical EYE

a. Multimode and singlemode supported

b. Best for singlemode

c. Best for electrical EYE

d. Available for EA-4000-28-1-0-SM and EA-4000-28-1-0-S

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