

Tektronix AFG31051 vs. Keithley AWG3390

COMPARISON FACTSHEET

The following table provides a basic comparison to help you transition from the Keithley AWG3390 to the Tektronix AFG31051. For additional details, refer to the datasheets on tek.com.



Parameter	AFG31051	AWG3390
Display	9-inch touchscreen	5.6-in Color TFT LCD
Analog Channels	1	1
Amplitude	Up to 20 V p-p into High Z 10 V p-p into 50 Ω	Up to 20 V p-p into High Z 10 V p-p into 50 Ω
Frequency Range		
Sine	50 MHz	50 MHz
Square	1μHz – 40 MHz	1μHz – 25 MHz
Pulse	1μHz – 40 MHz	500μHz – 10 MHz
Ramp/Triangle	1μHz – 800 KHz	1μHz – 200kHz
Waveform Length	250 MSa/s	125 MS/s
Jitter	2.5 ps	1 ns
Resolution	14-bit	14-bit
Edge Time	5 ns	5-6 ns
Operations	Touchscreen & Button	Button
Modes	Basic & Advanced Mode	Basic Only
Noise Bandwidth	150 MHz	20 MHz
Interface	USB, LAN, GPIB	USB, LAN, LXI-C, GPIB
Output Impedance	50 Ω	50 Ω
Waveform Memory Size	16 Mpts	256k
Built- in Software	ArbBuilder	N/A
Trigger Methods	Manual, Continuous, External	Internal, External, Manual
Modulations	AM,FM,PM,FSK,PWM	AM,FM,PM,FSK,PWM
Weight	Up to 4.7kg / 10.4 lb.	4.8 kg / 10.5 lbs.