



T3AFG200/T3AFG350/T3AFG500 Data Sheet

Function/Arbitrary Waveform Generators

Debug with Confidence 200 MHz - 500 MHz

Teledyne Test Tools T3AFG200 / T3AFG350 / T3AFG500 range of function/arbitrary generators are a series of dual-channel waveform generators with specifications of up to 500 MHz maximum bandwidth, 2.4 GSa/s maximum sampling rate and 16-bit vertical resolution. The proprietary Arbitrary & Pulse techniques used in the T3AFG200 / T3AFG350 / T3AFG500 models helps to solve the weaknesses inherent in traditional DDS generators when generating arbitrary, square and pulse waveforms. With the above advantages the T3AFG200 / T3AFG350 / T3AFG500 generators can provide users with a variety of high fidelity and low jitter signals, which can meet the growing requirements of a wide range of complex applications.



Tools for Improved Debugging

• Deep Memory – 20 Mpts/Ch.	Generate complex arbitrary waveforms.
 Wide Range of Modulation Types – AM, DSB-AM, FM, PM, FSK, ASK, PWM, Sweep, Burst, and PSK. 	Quickly set up modulated waveforms.
• High Resolution – 16 bit resolution.	Generate waveforms with low noise, low spurious signal content and high dynamic range.
Bandwidth Models up to 500 MHz.	Wide choice of bandwidths.
Built In Arbitrary Waveforms.	Load and replay built in Arbitrary Waveforms.
PRBS, I/Q and user Defined Waveform capability.	⊘ Support for complex applications.
 Single and dual channel models also available, starting from 5 MHz. 	Inquire about the T3AFG5, T3AFG10, T3AFG40, T3AFG80 and T3AFG120.

Key Specifications

Bandwidth	200 MHz, 350 MHz, 500 MHz
Channels	2 Independent Channels
Memory	20 Mpts/Ch
Sample Rate	2.4 GS/s (2x Interpolation)
Display	4.3 inch Touch Screen TFT LCD
Connectivity	USB Host, USB Device, LAN
Warranty	3 Years

PRODUCT OVERVIEW

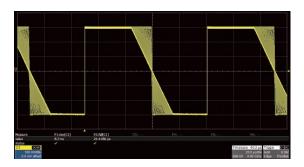
Ordering Information

Model	Bandwidth	Channel	Memory per Ch	Sample Rate per Ch
T3AFG200	200 MHz	2	20 Mpts	2.4 GS/s (2x Interpolation)
T3AFG350	350 MHz	2	20 Mpts	2.4 GS/s (2x Interpolation)
T3AFG500	500 MHz	2	20 Mpts	2.4 GS/s (2x Interpolation)

Function	T3AFG200, T3AFG350, T3AFG500
Built-in Waveforms	7 Standard (Sine, Square, Pulse, Ramp, DC, Noise, PRBS), 196 Arbitrary, optional IQ (option T3AFG-IQ)
Input/Output	2 Waveform Outputs, Frequency Counter Input, Aux In/Out, 10 MHz Reference Clock In/Out
Modulation Functions	AM, DSB-AM, FM, PM, FSK, ASK, PSK, PWM, Sweep, Burst, Harmonic
Vertical D/A Resolution	16 Bits
Additional Functions	Sweep, Burst, Waveform Combining, Channel Coupling, Channel Copying, Channel Tracking
Frequency Counter	Built-in high precision Frequency Counter (up to 8 digit resolution)
TrueArb and EasyPulse	Yes
Display Size	4.3" Touch Screen

Excellent Performance

- Bandwidths from 200 MHz to 500 MHz
- All Models have 2 Channels
- 20 Mpts/Channel memory



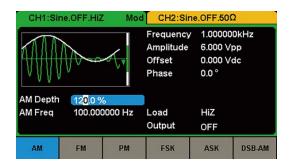
The rise/fall times can be set independently to a minimum of 1 ns (2 ns on T3AFG200) at any frequency and to a maximum of 75 s.



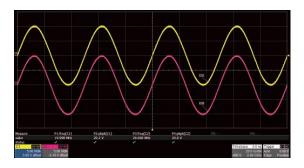
Burst mode supports 'N Cycle' and 'Gated' modes with the Burst source being configured as 'Internal', 'External' or 'Manual'.

Great Connectivity

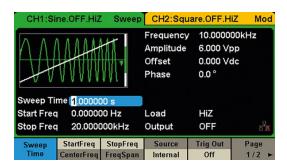
- USB host port for mass storage
- USB device port (USBTMC)
- LAN port on 2 channel models



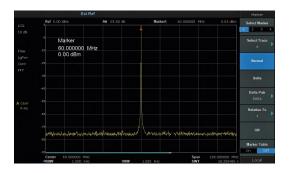
The T3AFG range of Function/Arbitrary Waveform Generators support a wide range of modulation types including AM, FM, PM, FSK, ASK, PSK, PWM and DSB-AM.



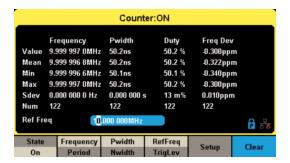
Output amplitude into a high impedance load can be as high 20 Vpp depending on frequency and waveform type.



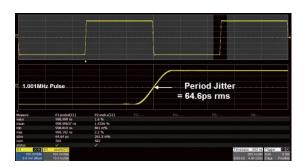
Sweep mode supports 'Linear' and 'Log' sweep, with 'Up' and 'Down' direction, and Sweep source can be configured as 'Internal', 'External' or 'Manual'.

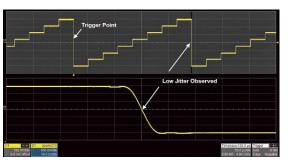


High Fidelity output with 80 dB dynamic range. Sine wave non-harmonic spurious artifacts are $-60 \text{ dBc} \le 350 \text{ MHz}$ and -55 dBc > 350 MHz.



The counter functionality, accessed via the rear panel BNC, gives a DC or AC coupled counter capability from 100 mHz to 400 MHz.





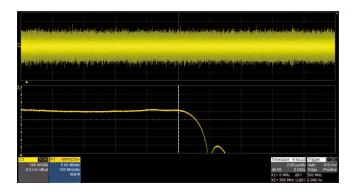
The Teledyne Test Tools T3AFG200, T3AFG350 and T3AFG500, with its low jitter design, can generate waveforms with exceptional edge stability. With better jitter performance comes better edge stability, and higher confidence in your circuit design.

Smart Capabilities

- Sweep output carrier can be Sine, Square, Ramp and Arbitrary waveforms. Linear or Log sweep.
- Burst output under internal or external signal control
- Waveforms types include PRBS (PRBS3 PRBS32)
- Frequency Resolution 1 μHz
- DSB-AM: Double Sideband AM modulation Function
- 10 Order Harmonic Function
- Optional IQ Modulation (T3AFG-IQ)
- Multi-Language User Interface



PRODUCT OVERVIEW



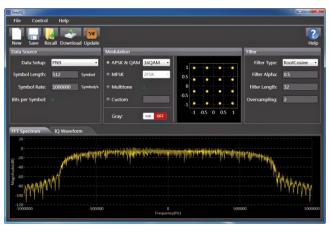
Gaussian noise with adjustable bandwidth up to 500 MHz, depending on model. Wide bandwidth Gaussian noise can be added to other waveforms to simulate real-world scenarios in which the signal contains a large degree of noise.

T3AFG-IQ, Optional IQ Signal Generation



The T3AFG200, T3AFG350 and T3AFG500 optionally supports IQ signal generation with symbol rates between 250 Symbols/s to 37.5 MSymbols/s, providing ASK, PSK, QAM, FSK, MSK and multi-tone signals.

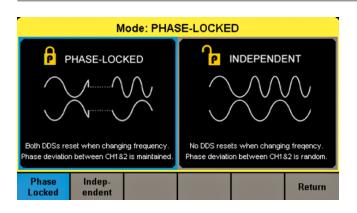
The built-in quadrature modulator provides the possibility to generate IQ signals from baseband to 500 MHz intermediate frequency (depending on T3AFG model).



The EasyIQ software is necessary to generate an IQ waveform when using the T3AFG-IQ option.

The EasyIQ software is a PC program used to download IQ baseband waveform data to the T3AFG200, T3AFG350 or T3AFG500 through a USB or LAN device interface.

Phase Locked Operation Mode

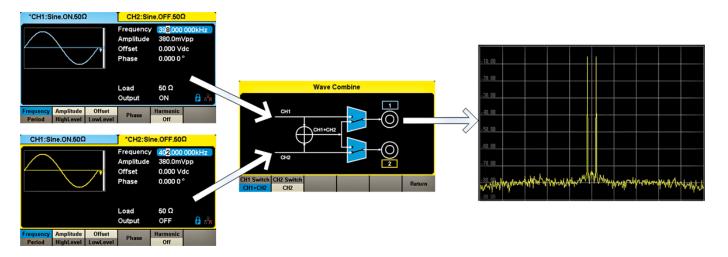


The 'Phase-Locked' mode automatically aligns the phases of each output. While 'Independent' mode permits the two output channels to be used as two independent waveform generators.

Waveform Combining

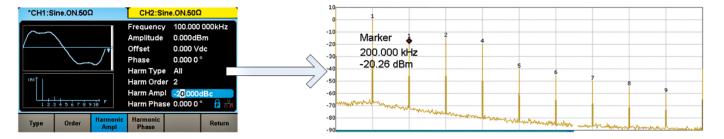
The T3AFG200, T3AFG350 and T3AFG500 have waveform combining capability whereby Channel 1 and Channel 2 can be combined to a user selected output. The combined waveform can be output on both Ch 1 and Ch 2 simultaneously, or just on a single output,

Ch 1 or Ch 2, whilst the other channel outputs the uncombined waveform for that channel. Easily combine basic waveforms (sine, square, ramp, pulse, etc), random noise, modulation signals, burst signals and Arb waveforms.



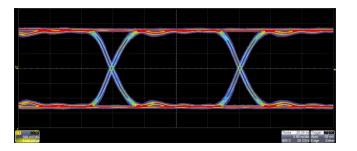
Harmonic Function

The harmonics function gives the user the ability to add higher-order elements to the signal being generated.

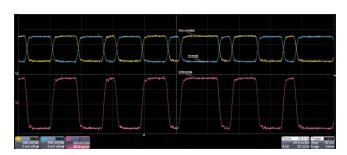


PRBS

The PRBS capability gives the flexibility to generate PRBS waveforms from PRBS3 to PRBS32 at up to 300 Mbps with edge rates from 1 ns to 1 μ s. An added differential mode provides an easy way to generate



differential PRBS signals using both output channels. Easily set outputs to common logic levels such as TTL, ECL, LVCMOS, LVPECL and LVDS using built-in presets.



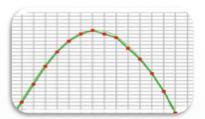
PRODUCT OVERVIEW

14 Bit Resolution



Quantization Level

16 Bit Resolution



14 Bit Resolution

Less accurate waveform generation

16 Bit Resolution

- T3AFG200 / T3AFG350 / T3AFG500 are all 16 bit resolution
- 4 x higher resolution than 14 bit systems
- Lower levels of Harmonic Distortion
- Lower levels of non-harmonic spurious signals
- Improved dynamic range
- Enhanced signal fidelity



I/O Connectivity

- LAN and USB connection
- 10 MHz Reference Input and Output
- The Aux Input/Output BNC Connector supports the Trigger Input, Trigger/Sync Output, external modulation input, external sweep/burst trigger input and external gate input
- External Counter input

Frequency Specification

Model	T3AFG200	T3AFG350	T3AFG500
Waveform	Sine, Square, Ramp, Pulse, Nois		
Sine	1 μHz – 200 MHz	1 μHz – 350 MHz	1 μHz – 500 MHz
Square	1 μHz – 80 MHz	1 μHz – 120 MHz	1 µHz – 120 MHz
Pulse	1 µHz – 80 MHz	1 µHz – 150 MHz	1 μHz – 150 MHz
Ramp/Triangular	1 µHz – 5 MHz		
Gaussian white noise	200 MHz (-3 dB)	350 MHz (-3 dB)	500 MHz (-3 dB)
Arbitrary	1 μHz – 50 MHz		
Resolution	1 μHz		
Accuracy	10-year aging +/- 3.5 ppm at 25	Degrees C	
Sine Wave	7 3 3 1 1	3	
Harmonic Distortion (0 dBm)	DC - 1 MHz ≤ -65 dBc 1 MHz - 60 MHz ≤ -60 dBc 60 MHz - 100 MHz ≤ -50 dBc 100 MHz - 200 MHz ≤ -40 dBc 200 MHz - 300 MHz ≤ -30 dBc > 300 MHz ≤ -28 dBc		
Total harmonic distortion.	0.075 %, 0 dBm, 10 Hz - 20 kHz		
Spurious signal (non-harmonic)	DC ≤ 350 MHz ≤ -60 dBc > 350 MHz ≤ -55 dBc		
Maximum Amplitude Output	40 MHz – 120 MHz: 5 Vpp 120 MHz – 160 MHz: 2.5 Vpp	o at 50 Ω, 20 Vpp at HiZ o at 50 Ω, 10 Vpp at HiZ o at 50 Ω, 5 Vpp at HiZ o at 50 Ω, 3 Vpp at HiZ o at 50 Ω, 1.28 Vpp at HiZ	(Minimum amplitude output 1 mVpp at 50 Ω, 2 mVpp at HiZ, all ranges)
Square Wave			
Rise/Fall Time (10 % – 90 %)	2.4 ns (1 Vpp, 50 Ω Load)		
Overshoot	3 % (typical, 100 kHz, 1 Vpp, 50 s	Ω Load)	
Duty Cycle	10 % – 90 %, Limited by frequen	cy setting	
Jitter (rms) cycle to cycle	100 ps, 1 Vpp, 50 Ω Load		
Maximum Amplitude Output	> 20 MHz: $5 \text{ Vpp at } 50 \Omega$, 10 Vpp at HiZ $1 \text{ mVpp at } 50 \Omega$,		(Minimum amplitude output 1 mVpp at 50 Ω, 2 mVpp at HiZ, all ranges)
Pulse			
Pulse width (Accuracy +/- (0.01 % + 0.3 ns))	3.4 ns	3.3 ns	3.3 ns
Rise/Fall Time (10 % ~ 90 %,typical)	2 ns - 75 s	1 ns - 75 s	1 ns - 75 s
Pulse Width Adjustment	100 ps		
Resolution			
Duty Cycle	0.001 % ~ 99.999 %, 0.001 % Res		etting
Overshoot	3 % (typical, 100 kHz, 1 Vpp, 50 Ω Load, 2 ns edge)		
Jitter (rms, cycle to cycle)	100 ps, 1 Vpp, 50 Ω Load		
Maximum Amplitude Output, ≥ 10 ns width, 2 ns edge	\leq 20 MHz: 10 Vpp at 50 Ω , 20 Vpp at HiZ (Minimum amplitude outp 20 MHz $-$ 120 MHz: 5 Vpp at 50 Ω , 10 Vpp at HiZ 1 mVpp at 50 Ω , > 120 MHz: 2.5 Vpp at 50 Ω , 5 Vpp at HiZ 2 mVpp at HiZ, all ranges)		
Ramp/Triangle Wave			
Linearity	≤ 1% of Vpp (typical, 1 kHz, 1 Vp	pp, 50 % symmetry)	
Symmetry	0 % - 100 %		
Maximum Amplitude Output	10 Vpp at 50 Ω, 20 Vpp at HiZ		(Minimum amplitude output 1 mVpp at 50Ω , 2 mVpp at HiZ, all ranges)
Harmonic Output			
Harmonic Output Order	10 Maximum		

Model	T3AFG200	T3AFG350	T3AFG500	
Arbitrary Wave				
Waveform length	2 – 20 M points			
Vertical resolution	16 bits			
Sample rate	300 MSa/s Arb Mode, 1.2	GSa/s DDS Mode		
Min. Rise/Fall Time	2.6 ns, 10 % - 90 %, 1 Vpp			
Jitter (rms), cycle to cycle	100 ps, 1 Vpp, 50 Ω Load,			
Frequency Setting Range	1 μHz – 50 MHz	TrueArb Wode		
Maximum Amplitude Output	≤ 20 MHz: 10 Vpp at 50 Ω,	20 Vpp at Hi7	(Minimum amplitude output	
iviaximum Ampiitude Output	> 20 MHz: $6 \text{ Vpp at } 50 \Omega$,		1 mVpp at 50 Ω, 2 mVpp at HiZ, all ranges)	
PRBS				
Bit Rate	1μbps – 160 Mbps	1µbps – 300 Mbps	1µbps – 300 Mbps	
Rise/Fall Time	2 ns - 1 μs	1 ns - 1 µs	1 ns - 1 μs	
Sequence Length	2^{m-1} , m = 3, 4, 5,, 32	1110 1 40	γρο	
Maximum Amplitude Output	≤ 40 Mbps: 10 40 Mbps − 240 Mbps: 5	Vpp at 50 Ω, 20 Vpp at HiZ Vpp at 50 Ω, 10 Vpp at HiZ Vpp at 50 Ω, 5 Vpp at HiZ	(Minimum amplitude output 1 mVpp at 50 Ω, 2 mVpp at HiZ, all ranges)	
Noise Characteristics				
-3 dB bandwidth	Bandwidth of the wavefor	m generator		
Bandwidth Setting Range	1 mHz - Bandwidth of the			
Amplitude Output Range		t 50 Ω , 2 mVrms – 1.084 Vrms at Hiz	(Mean = 0, BW Limit = Off)	
DC Characteristics			. (
Range	-10 V to +10 V HiZ Load -5 V to + 5 V 50 Ω Load			
Accuracy	+/- (1 % + 2 mV) HiZ Load			
IQ Signal Generator (Option	•			
Maximum Carrier Frequency	200 MHz	350 MHz	500 MHz	
Symbol Rate	250 Symbols/s - 37.5 MS	Symbols/s		
Vertical Resolution	16 Bits			
Output Range	1 mVrms – 0.5 Vrms, 50 C	$2 \text{ Load } (\sqrt{I^2 + Q^2})$		
Modulation Type	2ASK, 4ASK, 8ASK, BPSK, QPSK, 8PSK, DBPSK, DQPSK, Supported by EasyIQ D8PSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 2FSK, 4FSK, 8FSK, 16FSK, MSK, MultiTone, Custom			
Pattern	PN7, PN9, PN15, PN23, User file, Custom Supported by EasylQ software			
General Output Characteris	tics			
Accuracy	+/- (1% + 1 mVpp) 10 kHz	z sine wave, 0 V offset		
Amplitude Flatness		Vpp (reference 1 MHz Sine wave)		
Output impedance	50 Ω +/- 0.5 Ω at 100 kHz			
Output current	+/- 200 mA			
Channel to channel Crosstalk	-60 dBc, Sine, 50 Ω load			
Current Limit Threshold	+/- 200 mA			
Over-Voltage protection threshold		amplitude output < 3.2 Vpp and DC o	ffset < 12 VDCI	
		amplitude output ≥ 3.2 Vpp and DC c		
Modulation Characteristics	- AM			
Carrier	Sine, Square, Ramp, Arb			
Modulation Source	Internal/External			
modulation Soulce				
Modulation Waya	Sine, Square, Ramp, Noise, Arb			
Modulation Wave		e, Alb		
Modulation Wave Modulation Depth Modulation Frequency	O – 120 % 1 mHz – 1 MHz, Modulation			

Model	T3AFG200	T3AFG350	T3AFG500
Modulation Characteris	stics - FM		
Carrier	Sine, Square, Ramp, A	 rb	
Modulation Source	Internal/External		
Modulation Wave	Sine, Square, Ramp, N	oise, Arb	
Modulation Depth		e max output frequency limited b	y the frequency settings)
Modulation Frequency		ulation source "internal"	, , , , , , , , , , , , , , , , , , , ,
Modulation Characteris	stics - PM		
Carrier	Sine, Square, Ramp, A	rb	
Modulation Source	Internal/External		
Modulating Waveform	Sine, Square, Ramp, A	rb, Noise	
Phase Deviation	0 Deg - 360 Deg		
Modulation Frequency	1 mHz – 1 MHz, Modu	ulation source "internal"	
Modulation Characteris	stics - ASK		
Carrier	Sine, Square, Ramp, A	rb	
Modulation Source	Internal/External		
Modulating Waveform	Square with 50 % duty	cycle	
Keying Frequency	1 mHz – 1 MHz, Modu	ulation source "internal"	
Modulation Characteris	stics - FSK		
Carrier	Sine, Square, Ramp, A	rb	
Modulation Source	Internal/External		
Modulating Waveform	Square with 50 % duty	cycle	
Modulation Frequency	1 mHz – 1 MHz, Modu	ılation source "internal"	
Modulation Characteris	stics - PSK		
Carrier	Sine, Square, Ramp, A	rb	
Modulation Source	Internal/External		
Modulating Waveform	Square with 50 % duty	cycle	
Modulation Frequency	1 mHz – 1 MHz, Modu	ulation source "internal"	
Modulation Characteris			
Carrier	Pulse		
Modulation Source	Internal/External		
Modulating Waveform	Sine, Square, Ramp, N		
Modulation Frequency	1 mHz – 1 MHz, Modu	ulation source "internal"	
Burst Characteristics			
Carrier	Sine, Square, Ramp, N		
Туре	Count (1-1 M cycles),		
Carrier Frequency	2 mHz – Maximum ou	itput frequency	
Stop/Start phase	0 Deg to 360 Deg		
Internal Period	1 μs – 1000 seconds		
Trigger Source	Internal, External, Man	ual	
Gated Source	Internal, External		
	Maximum of 100 seco	onds	
Trigger Delay	Maximum of 100 seco	onds	
Trigger Delay Sweep Characteristics Carrier	Maximum of 100 seconds Sine, Square, Ramp, A		
Trigger Delay Sweep Characteristics Carrier Type	Sine, Square, Ramp, A Linear, Log	rb	
Trigger Delay Sweep Characteristics Carrier Type Direction	Sine, Square, Ramp, A Linear, Log Linear: Up, Down, Up a	rb and Down. Logarithmic: Up, Down	
Trigger Delay Sweep Characteristics Carrier Type Direction Carrier Frequency	Sine, Square, Ramp, A Linear, Log Linear: Up, Down, Up a 1 µHz – Maximum ou	rb and Down. Logarithmic: Up, Down	
Trigger Delay Sweep Characteristics Carrier Type Direction	Sine, Square, Ramp, A Linear, Log Linear: Up, Down, Up a	rb and Down. Logarithmic: Up, Down tput frequency	

Model	T3AFG200	T3AFG350	T3AFG500
Frequency Counter Chara	acteristics		
Function		Positive / Negative Pulse Width, Du	tv Cvcle
Coupling	DC, AC, HF REJ		-, -, -, -, -
Frequency Range) MHz, AC: 1 Hz - 400 MHz	
DC Input Amplitude	100 mV rms - +/- 2		
	· ·	2.5 V 100 MHz – 200 MHz	
AC Input Amplitude	100 mV rms - 5Vp		
		p 100 MHz – 200 MHz	
	500 mV rms - 5Vpp	o > 200 MHz	
Input Impedance	1 ΜΩ		
Reference Clock Input			
Frequency	9.999 MHz - 10.00	1 MHz	
Amplitude	Minimum 1.4 Vp-p	into high impedance load	
Input Impedance	5 kΩ		
Reference Clock Output			
Frequency	10 MHz Synchroniz	red to the internal reference clock	
Amplitude	Minimum 2 Vp-p in	to high impedance load	
Output Impedance	50 Ω		
External Trigger Input (A	uxiliary In/Out)		
V in Low	-0.5 V to +0.8 V		
V in High	2 V to 5.5 V		
Input Impedance	100 kΩ		
Minimum Pulse Width	100 ns		
Maximum Response Time	100 ns - Sweep, 60	00 ns - Burst	
Trigger Output (Auxiliary			
V out Low	Maximum 0.44 V at	· 8 m∆	
V out High	Mimimum 3.8 V at		
Output Impedance	100 Ω	011//	
Maximum Frequency	1 MHz		
a.m.mam.r.oquomey			
Sync Output (Auxiliary In	/Out)		
V out Low	Maximum 0.44 V at	8 mA	
V out High	Mimimum 3.8 V at		
Output Impedance	100 Ω		
Maximum Frequency	10 MHz		
Pulse Width	26.7 ns		
Jitter	3.3 ns Peak to peak	(
Modulation Input (Auxilia			
Frequency	0 Hz to 50 kHz		
Input Impedance	10 kΩ		
Amplitude at 100 %	Min 11 Vp-p, Typ 12	2 Vp-p, Max 13 Vp-p	
Modulation Denth	1 1 7 71		

Modulation Depth

General Characteristics

Power	
Voltage	100 V to 240 V (+/-10 %) at 50 Hz / 60Hz 100 V to 120 V (+/-10 %) at 400 Hz
Power Consumption	Typical 32.5 W, Maximum 50 W, Dual channel, Sine, 1kHz, 10 Vpp, 50 Ω load
Display	
Color Depth	24 bit
Contrast Ratio	350:1
Luminance	300 cd/m ²
Touch panel type	Resistive
Environment	
Operating Temperature	0 Deg C to 40 Deg C
Storage Temperature	-20 Deg C to 60 Deg C
Operating Humidity	5 % to 90 % ≤ 30 Deg C 5 % to 50 % > 30 Deg C
Non-Operating Humidity	5 % to 95 %
Maximum Operating Altitude	3048 m ≤ 30 Deg C
Maximum Non-Operating Altitude	15000 m
Calibration	
Calibration Interval	Annually
Mechanical	
Dimensions	W x D x H = 260.3 mm x 107.2 mm x 295.7 mm
Net Weight	3.5 kg
Gross Weight	4.6 kg
Compliance	
LVD	IEC 61010-2:2010
EMC	EN61326-1:2013

Ordering information

Models	T3AFG200 200 MHz
	T3AFG350 350 MHz
	T3AFG500 500 MHz
Standard Accessories	Quick Start Guide
	USB Cable
	BNC Cable
	Calibration Certificate
	Power Cord
Optional Accessories	T3AFG-IQ IQ Signal Generator Function

ABOUT TELEDYNE TEST TOOLS



Company Profile

Teledyne LeCroy is a leading provider of oscilloscopes, protocol analyzers and related test and measurement solutions that enable companies across a wide range of industries to design and test electronic devices of all types. Since our founding in 1964, we have focused on creating products that improve productivity by helping engineers resolve design issues faster and more effectively. Oscilloscopes are tools used by designers and engineers to measure and analyze complex electronic signals in order to develop high-performance systems and to validate electronic designs in order to improve time to market.

The Teledyne Test Tools brand extends the Teledyne LeCroy product portfolio with a comprehensive range of test equipment solutions. This new range of products delivers a broad range of quality test solutions that enable engineers to rapidly validate product and design and reduce time-to-market. Designers, engineers and educators rely on Teledyne Test Tools solutions to meet their most challenging needs for testing, education and electronics validation.

Location and Facilities

Headquartered in Chestnut Ridge, New York, Teledyne Test Tools and Teledyne LeCroy has sales, service and development subsidiaries in the US and throughout Europe and Asia. Teledyne Test Tools and Teledyne LeCroy products are employed across a wide variety of industries, including semiconductor, computer, consumer electronics, education, military/aerospace, automotive/industrial, and telecommunications.

Distributed by:



ADMESS Vertriebs GmbH Ernst-Kiefer-Straße 9 67292 Kirchheimbolanden Germany Tel.: +49 (0) 6352 / 78 99 8 - 0 Telefax: +49 (0) 6352 / 78 99 8 - 20 E-Mail: info@admess.de www.admess.de

Teledyne LeCroy (US Headquarters)

700 Chestnut Ridge Road Chestnut Ridge, NY. USA 10977-6499

Phone: 800-553-2769 or 845-425-2000

Fax Sales: 845-578-5985 Phone Support: 1-800-553-2769

Email Sales: contact.corp@teledynelecroy.com
Email Support: support@teledynelecroy.com
Web Site: http://teledynelecroy.com/

Teledyne LeCroy (European Headquarters)

Teledyne LeCroy GmbH

Im Breitspiel 11c

D-69126 Heidelberg, Germany

Phone: +49 6221 82700 Fax: +49 6221 834655 Phone Service: +49 6221 8270 85 Phone Support: +49 6221 8270 28

Email Sales: contact.gmbh@teledynelecroy.com
Email Service: service.gmbh@teledynelecroy.com
Email Support: tlc.t3.appsupport.eu@teledyne.com
http://teledynelecroy.com/germany

World wide support contacts can be found at: https://teledynelecroy.com/support/contact/#





© 2020 Teledyne Test Tools is a brand and trademark of Teledyne LeCroy Inc. All rights reserved. Specifications, prices, availability and delivery subject to change without notice. Product brand or brand names are trademarks or requested trademarks of their respective holders.