Grand Safari™ . High Power CW Transmitter

Portable meets Powerful

The Grand Safari™ CW transmitter is a portable high-power signal generator engineered particularly for field applications such as outdoor model tuning, candidate site assessment, DAS injection/testing or CW walk-testing.

This high-power transmitter comes in two different forms; either single-port or dual-port. Each port covers a wide range of frequency bands to allow users to mix several bands from 300 MHz up to 4 GHz in one unit.
The field-proven RF generator is easily operated via its built-in touch keypad & LCD display. And the RF modules are characterized by their full protection against RF open/short and over-temperature. Additionally, the full instrument is unique for its IP 65 protection rating against water and dust when the lid is closed during operation.

The system is based on Consultix award-winning WTX transmitter which achieved remarkable success globally and has been the preferable choice for hundreds of customers since 2011 due to its field-convenience, wide-band operation and cost-efficiency.

Specifications					
	Grand-Safari™-1L	**Grand-Safari™-1H**	**Grand-Safari™-1HH**	**Grand-Safari™-1HC**	**Grand-Safari™-2LH**
Frequency Bands	300 to 2200 MHz	1800 to 4000 MHz	3400 - 3700 MHz	3200 to 3900 MHz	Port 1: 300 to 2200 MHz Port 2: 1800 to 4000 MHz
Frequency Resolution	100 KHz (1 KHz Optional)				
Frequency Accuracy	2 ppm. (typ. 1 ppm)				
Frequency Aging	1 ppm / year				
Modulation Type	CW (Continuous Wave)				
Max. Output Power	20 Watts	42 dBm; 1800 - 2200 MHz 40 dBm; 2200 - 3000 MHz 42 dBm; 3000 - 4000 MHz	45 dBm (30 Watts)	80 Watts; 3200 - 3850 MHz 50 Watts; 3800 - 3900 MHz	Port 1 43 dBm; 300 - 2200 MHz Port 2 42 dBm; 1800 - 2200 MHz 40 dBm; 2200 - 3000 MHz 42 dBm; 3000 - 4000 MHz
Min Output Power	1 Watt	37 dBm			
Amplitude Accuracy	± 1 dB (Typ. ±0.5dB) *				
Stability	±0.5 dB + 0.1 dB/ °C				
Amplitude Resolution	1 dB or 1 W (Select with Order)				
Phase Noise	< -65 dBc/Hz @ 10 KHz offset				
Spurious	-50 dBc to -60 dBc				
Power Consumption	145 Watts	135 Watts	250 Watts	700 Watts	260 Watts
No. of Port 1	1				
RF Output Port	N-female				
RF Port(s) Impedance	50 Ω				
External DC input	28 VDC (Circular 4 pins connector)				
Power Supply	Included external AC/DC Adapter: 100-240V AC, 50-60 Hz				
External Dimensions	450 x 430 x 260 mm				
Weight	11 Kg (24 lbs)		Weight 12 Kg (26.5 lbs)	12 Kg (26.5 lbs)	15 Kg (33 lbs)
Enclosure	Ruggedized Plastic Hard Case				
Protection	RF open, short and over temperature				
Operating Temp	-10 to +50 C				
Ingress Protection	IP65 (Lid Closed)				
Cooling	Forced Air				
Display	LCD				
Control	Touch Keypad				

* This parameter is specified @ temperature 25 - 30 C° and after a 30 minute warm-up time, hence validation powermeter is typically recommended particularly in case of significant temperature changes.

Find us:
Building 57A, 2nd district, 6th area, El-Teseen st.11835, New Cairo, Egypt.
+2 02 25647370 info@consultixwireless.com

Ordering Information	
Portable heavy-duty CW transmitter; single-port 300 to 2200 MHz, Max. output power 20 Watts. N-female connector, LCD display, touch keypad, protection mechanism for RF open/short and over-temperature, IP 65 protection rating (lid closed), AC and DC powered. Including; AC/DC adapter and user manual	Grand-Safari™-1L
Portable heavy-duty CW transmitter; single-port 1800 to 4000 MHz; 42 dBm; 1800-2200 MHz 40 dBm; 2200-3000 MHz 42 dBm; 3000-4000 MHz. N-female connector, LCD display, touch keypad, protection mechanism for RF open/short and over-temperature, IP 65 protection rating (lid closed), AC and DC powered. Including; AC/DC adapter and user manual	Grand-Safari™-1H
Portable heavy-duty CW transmitter; single-port; 3400 to 3700 MHz, Max. power 30 Watts (45 dBm). N-female connector, LCD display, touch keypad, protection mechanism for RF open/short and over-temperature, IP 65 protection rating (lid closed), AC and DC powered. Including; AC/DC adapter and user manual	Grand-Safari™-1HH
Portable heavy-duty CW transmitter; single-port 3200 to 3900 MHz; 80 Watts; 3200 - 3850 MHz 50 Watts; 3800 - 3900 MHz N-female connector, LCD display, touch keypad, protection mechanism for RF open/short and over-temperature, IP 65 protection rating (lid closed), AC and DC powered. Including; AC/DC adapter and user manual	Grand-Safari™-1HC
Portable heavy-duty CW transmitter; dual-port; Port1: 300 to 2200 MHz, Max. power 43 dBm. Port2: 1800 to 4000 MHz, Max. power 42 dBm (refer to band levels) N-female connector, LCD display, touch keypad, protection mechanism for RF open/short and over-temperature, IP 65 protection rating (lid closed), AC and DC powered. Including; AC/DC adapter and user manual	Grand-Safari™-2LH

Optional Accessories	
RF cable; 6m, 400 - 5800 MHz, overall Loss 1.5 dB @2.4GHz, Type-N male to Type-N male	Safari-Acc-CNN-6
RF cable; 18m, 400 - 5800 MHz, overall Loss 4.2 dB @2.4GHz, Type-N male to Type-N male	Safari-Acc-CNN-18
Omni-directional antenna; 698 -960 MHz & 1710- 2180 MHz & 2200 - 2700 MHz, 100 Watt, Gain >1.2 dBi, VSWR < 1.8:1	Safari-Acc-OHA727
Outdoor Omni-directional antenna; 900 MHz Band, 25 Watt, Gain 4 dBi, VSWR 2:1, Type N-female	Safari-Acc-OA9
Outdoor Omni-directional antenna; 1800 MHz Band, 25 Watt, Gain 5 dBi, VSWR 2:1, Type N-female	Safari-Acc-OA18
Outdoor Omni-directional antenna; 1710 - 2170 MHz, 25 Watt, Gain 6 dBi, VSWR < 2:1, Type N-female	Safari-Acc-OA21
Outdoor Omni-directional antenna; 2500 - 2700 MHz, 25 Watt, Gain 6 dBi, VSWR 2:1, Type N-female	Safari-Acc-OA26
Outdoor Omni-directional antenna; 3400 - 3700 MHz, 25 Watt, Gain 9 dBi, VSWR 2:1, Type N-female	Safari-Acc-OA35-9
Non-metal Tripod; 3.2 m (125 in.), Folds down to 2.0 m (78 in.), 1.1m Collapsed, < 7 Kg. Including antenna mounting plate	WTX-Acc-3LT
Non-metal Tripod; 4.8 m (188 in.), Folds down to 2.0 m (78 in.), 1.1m Collapsed, < 10 Kg. Including antenna mounting plate	WTX-Acc-5LT

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DASTronix

877-711-1757
sales@dastronixusa.com
www.dastronixusa.com

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