



## 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.

The high-power transmitter comes in a single-port form with a variety of choices of band/power mix from 600 to 4200 MHz with power ranges from 20 to 80 Watts.

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.





**CONSULTIX**



<b>Specifications</b>					
	<b>Grand-Safari™-1L</b>	<b>Grand-Safari™-1H</b>	<b>Grand-Safari™-1HH</b>	<b>Grand-Safari™-1HL</b>	<b>Grand-Safari™-1HC</b>
No. of Ports	1				
Frequency Bands	600 to 2700 MHz	3200 to 4200 MHz	3400 - 3700 MHz	2110 to 2170 MHz	3200 to 3900 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	43 dBm (20 Watts)		45 dBm (30 Watts)	48 dBm (49 dBm over-range)	80 Watts; 3200 - 3850 MHz 50 Watts; 3800 - 3900 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	-45 dBc to -60 dBc (@100 KHz from carrier)				
Power Consumption	145 Watts	135 Watts	250 Watts	600 Watts	700 Watts
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)		12 Kg (26.5 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				
Certifications	FCC and EN55022/CISPR 22 EMI				
Standard Package	Transmitter, AC/DC adapter, user manual and calibration certificate				

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

<b>Ordering Information</b>	
Portable heavy-duty CW transmitter; single-port 600 to 2700 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 3200 to 4200 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™-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 2110 to 2170 MHz, output power 48 dBm (over-range up to 49 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™-1HL
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

<b>Optional Accessories</b>	
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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