Datasheet



- Frequency 2 to 18 GHz
- 16 Pulse Signals
- Pulse and scan signal monitors
- Compact and rugged design

Radar Signal Generators

AWT(G) Radar Signal Generators MRS-Series generate a wide variety of Radar Signals. The Simulators are ideal for radar receiver testing and in training Radar Operators on object detection, recognition and Electronic Warfare (EW). The simulators offer variety of simulation capabilities; including Radar Warning Receivers (RWR), Missile Warning Receivers (MWR) and other Electronic Warfare (EW) Receivers. AWT's Radar Simulator can generates CW or Pulsed signals. An intuitive graphical user interface (GUI) makes it easy to program signal parameters. Geographic Information System (GIS) tools are also available (option).



Frequency bands can be developed to customer specifications from 0.5 to 40 GHz

RF & Microwave Technology

AWT-Global provides advanced telecommunication technology products and analyzers for a variety of RF and Microwave applications.

AWT-Global

117 Grand Avenue Hackettstown New Jersey 07 USA p: +1 (973) 321-3423

e: sales@awt-global.com w: www.awt-global.com



Technical Specifications

Frequency Characteristics	
High power RF output	2 to 18 GHz
Accuracy	+/- 3 MHz (with DTO)
Agile	Sine, Triangle, Rectangle, Saw
Hopping Frequency Number	16
Number of RF Signal	
2 -18 GHz	16 Pulse

Pulse Characteristics	
Pulse Range	1- 1,000,000 us
PW Range	0.1- 225 us
Stagger	32 steps
Jitter Pattern	Sine, Triangle, Rectangle, Saw
Dwell & Switch	Programmable up to 32 steps
FMOP	Linear, Non Linear (FM BW is dependent on PW, 40 MHz Max.)

Scan Characteristics	
Scan Type	Conical, Steady, Sector, Lobe-Switching, Circular, Box, Orthogonal, Helical,Spiral, Raster, Bi-Directional
Scan Rate	50 mS to 10Sec
Scan Depth	0 to 40 dB

Inputs/Outputs	
Ethernet Interface ports	
USB x 3 interface Port	
VGA output (VGA compatible	e monitor)
Video Out: Scan Monitor Pulse Monitor	BNC(f), 3.3VDC Max. BNC(f), 5VDC Max.
RF Ouput	N-type (f), +10 dBm Max.

(2 - 18 GHz)	
RF Monitor Output	SMA (f), -10 dBm Max.
(2-18 GHz)	

Environmental	
Operating Temperature	10°C to +40°C
Storage Temperature	-20°C to +70°C
Ingress Protection	IP66 (lid closed) IP20 (lid open)
Relative Humidity	5% to 85% (non condensing)
Mechanical Shock Rating	20G

Other Features	
Output level +10dBm	
Embedded PC	
Built in test	
Weight	23 kg
Dimensions (mm)	500(H) x 305(D) x 457(W)

110-240 VAC

Acessories:

Electrical

Power

- RF Cable (1 meter N(m) to N(m))
- RF Cable (3 meters, N(m) to N(m))
- AC Power cable
- BNC cable (1 meter)

Product Quality

AWT is committed to providing our customers with products meeting the highest quality standards.
All AWT products undergo thorough quality checks and are ISO 9001 and ISO 14001 certified.

For more information on any of our products or services please visit our Web site: www.awt-global.com

Order Information

Model	Description
MRS-020180	Portable Radar Signal Generator, frequency range 2 to 18 GHz, 16 simultane-
	ous signals



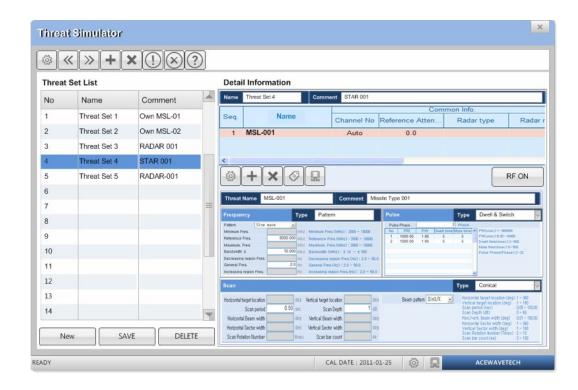
AWT-Global

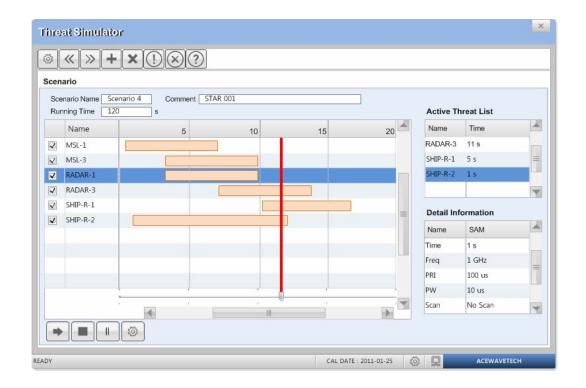
117 Grand Avenue Hackettstown New Jersey 07 USA p: +1 (973) 321-3423

e: sales@awt-global.com w: www.awt-global.com

Simulator & Threat Software

RF Signal Parameter Management software runs on windows operating systems. RF signals are composed of frequency, pulse and SCAN characteristics. All parameters are editable in an easy to use and clearly laid out user interface.





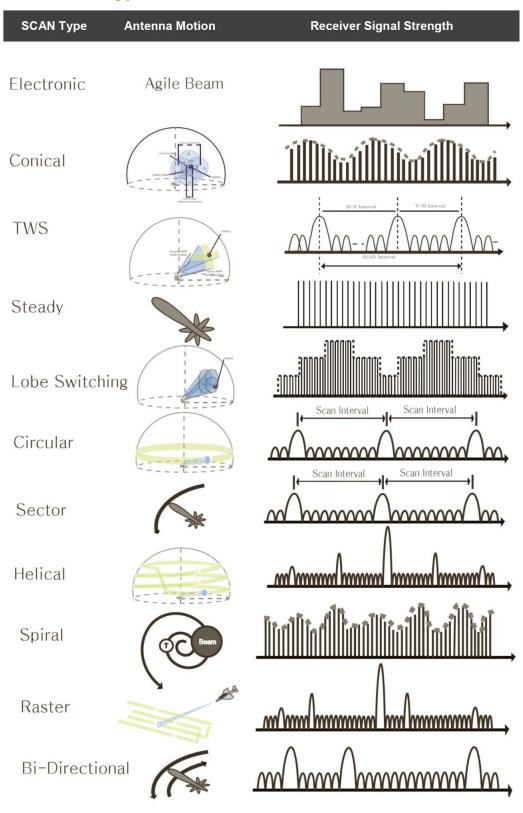
AWT-Global

117 Grand Avenue Hackettstown New Jersey 07840, USA p: +1 (973) 321-3423 e: sales@awt-global.com

w: www.awt-global.com



Radar Scan Types



A Representation of important radar scan types. All of which can be programmed individually with AWT Global's Radar Signal Generators and transmitted as a single signal or simultaneous multiple signals.



AWT-Global

117 Grand Avenue Hackettstown New Jersey 07840, USA p: +1 (973) 321-3423 e: sales@awt-global.com w: www.awt-global.com