# **Datasheet**



- Frequency 2 to 18 GHz
- Pulse and scan signal monitors
- 100W RF output
- Compact and rugged design
- Dish antennas with tripod

## **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).

# RF & Microwave Technology

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



Dish Antennas and 100W Amplifier

## AWT-Global

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## **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 Signals

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
Amplifier and Antenna Characteristics	
Amplifier	100W 2-8 GHz and 8-18 GHz
Gain:	
2-8 GHz	31 dBi
8-18 GHz	38 dBi
Feed fitted with N connector	or
0.6 m Aluminum reflector w	rith a tripod

Inputs/Outputs	
Ethernet Interface ports	
USB x 3 interface Port	
VGA output (VGA compa	atible monitor)
Video Out: Scan Monitor Pulse Monitor	BNC(f), 3.3VDC Max. BNC(f), 5VDC Max.
RF Ouput (2 - 18 GHz)	N-type (f)
RF Monitor Output (2-18 GHz)	SMA (f)

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

E	lectri	cal	

Power 110-240 VAC

#### Other Features

An embedded PC or Laptop for remote control

Built in test

Acessories:

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

#### **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-020180-100	Radar Signal Generator, frequency range 2 to 18 GHz, 16 Simultaneous
	Signals, 100W RF output, dish antennas, tripod



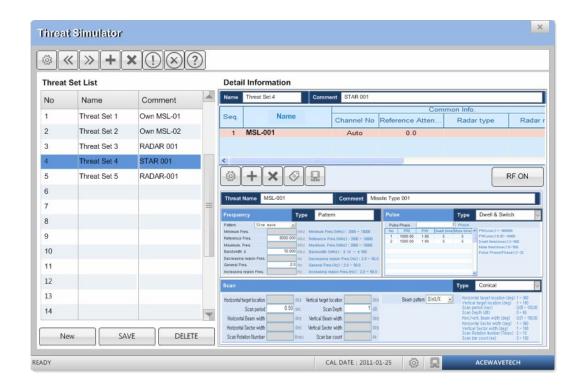
#### **AWT-Global**

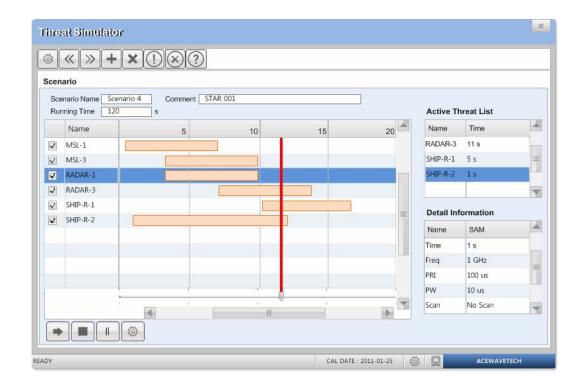
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#### Simulator & Threat Software

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.





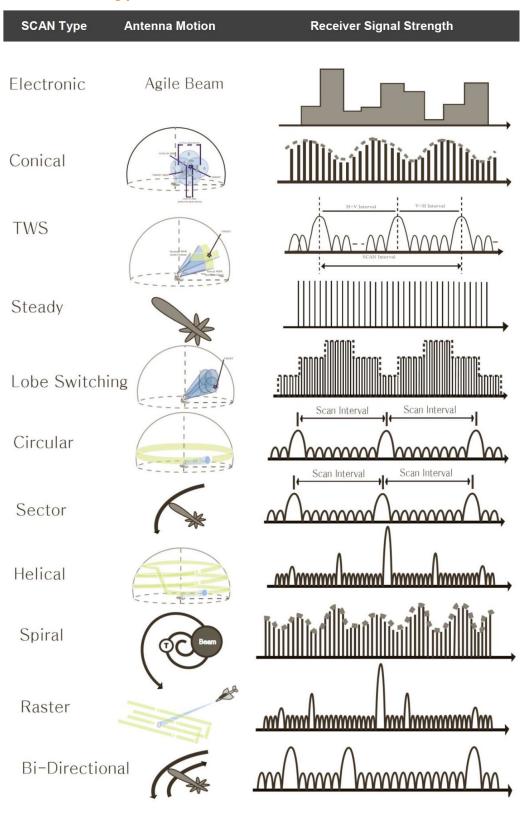
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## **Radar Scan Types**



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.



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