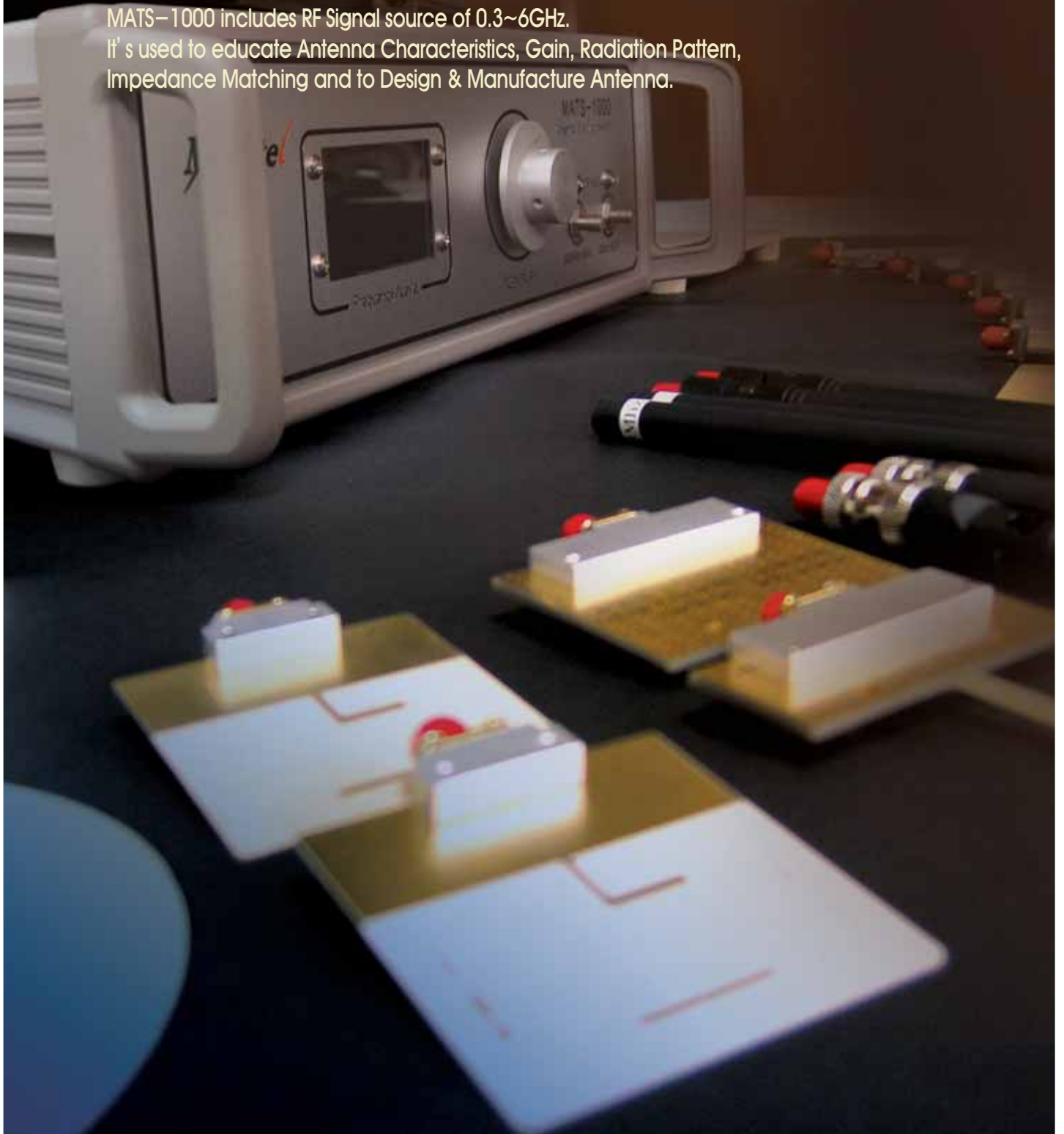


Antenna Training System

Model: MATS-1000

MATS-1000 includes RF Signal source of 0.3~6GHz.

It's used to educate Antenna Characteristics, Gain, Radiation Pattern, Impedance Matching and to Design & Manufacture Antenna.



MATS-1000 Features

1. RF signal generator is included
2. Practice for Antenna characteristics is possible
3. Signal frequency and Output power is variable.
4. Suitable for training Antenna design, manufacturing, measurement.
5. Practice is possible without extra measuring equipment
6. Auto calibration is included to set maximum input power position.

MATS-1000 Training contents

Part 1. Introduction and Installation of Program

- Chapter 1. Introduction of system
- Chapter 2. Program Installation and Instruction

Part 2. Practice for Antenna characteristics

- Chapter 3. Practice for Dipole antenna
- Chapter 4. Practice for Yagi antenna
- Chapter 5. Practice for Monopole antenna
- Chapter 6. Practice for Loop antenna
- Chapter 7. Practice for Ceramic Chip antenna
- Chapter 8. Practice for Inverted F antenna
- Chapter 9. Practice for Patch and Array Patch antenna

Part 3. Practice for antenna Impedance matching and antenna Gain measurement

- Chapter 10. Practice for antenna Impedance matching
- Chapter 11. Practice for antenna Gain measurement

Part 4. Practice for antenna Design and Manufacture

- Chapter 12. Manufacture of Dipole antenna
- Chapter 13. Manufacture of Loop antenna
- Chapter 14. Manufacture of Yagi antenna

MATS-1000 Specifications

Items	Specifications
RF	Frequency
	1) Variable in 300MHz~3000MHz, 2) Variable in 5.0~6.0GHz
	Output power
	5 ~ -15dBm
	AGC
	25 [dB]
	Oscillation
Antenna Types	PLL frequency synthesized
	Impedance
	50[ohm]
	Supplied
	450 MHz : Dipole x2(PCB)
	915 MHz : Dipole x2, Monopole
	2.4 GHz : Dipole x2, Chip, Patch, Yagi x2, Inverted F, Array Patch, Loop
	5.6 GHz : Horn[Option], 5.8GHz Yagi×2
	Practice for Antenna Manufacturing
	Yagi, Loop, Dipole
Control	Control Method
	Micro-Controller
	Antenna Angle Control
	360 ° , 3600 step 0.1 ° / Step
	Angle Control Range
	0~360 °
	Motor Rotation
	Front, Back, Step

Antenna Training System Model: MATS-1000



MATS-1000 Functions

1. Practice for Antenna characteristics

1) Practice for the Radiation pattern [Supplying Antenna]

- Yagi antenna
- Chip antenna
- Dipole antenna
- Monopole antenna
- Loop antenna
- Patch antenna
- Inverted F antenna
- Array Patch antenna

2) Practice for the Antenna characteristics by varying source frequency

- Resonance frequency
- Gain

3) Practice for Designing, Manufacturing and Measuring the following:

- Yagi antenna
- Loop antenna
- Dipole antenna
- Practice in GUI Environment

2. Practice in GUI Environment

MATS-1000 Components

RFSG-1000	1Set	Text Book	1EA
Manufacturing antenna	3EA	Antenna	18EA
Antenna Base	2EA	Program CD	1EA
Wrench set	1Set	Antenna Fixing Bracket	2EA
Carrying Bag	1EA	Horn Antenna [Option]	1EA
50ohm Terminator	2EA		



RFSG-1000 Specifications

Items	Spec
Source Frequency	1) 300~3000MHz, -15 ~ +5dBm
	2) 5.0~6.0 GHz , -10 ~ +5dBm
Output Power	5 ~ -15dBm
Oscillation	PLL frequency synthesized
Impedance	50[ohm]

RF Signal Generator Model: RFSG-1000

RFSG-1000 Features

1. Role of High-Frequency Signal Generator
2. Variable Output Power
3. Variable Frequency

RFSG-1000 Components

Main System	1 Unit	RS-232 Cable	2EA
RF Coaxial Cable	2 EA	Adapter	1EA