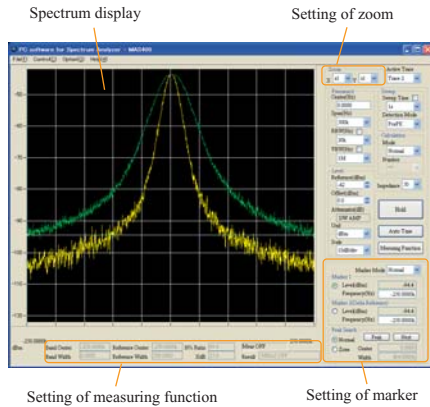


Option

PC software MAS400



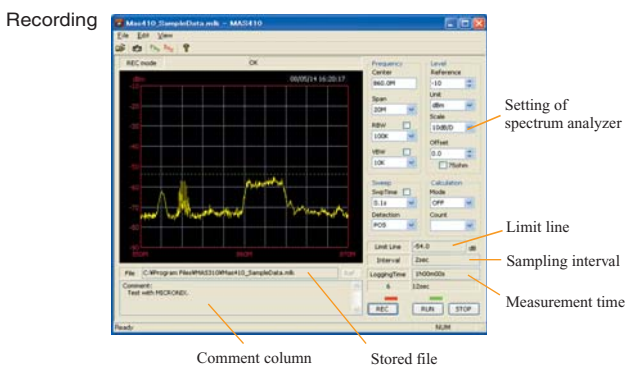
MAS400 is a software that controls the spectrum analyzers of four models by the PC. 1001 points are captured in the spectrum analyzer. Although 501 points are displayed on its screen, the number of points transferred to the PC is all of 1001 points.

The screen image is stored by BMP format and the spectrum is stored by CSV format each point (frequency and level).

Logging software MAS410

MAS410 is a logging software that collects the measurement data by uninhabited. It is optimum for watching an abnormal signal at night and recording the data by uninhabited for a long time.

- Logging at specified frequency band, sampling interval and measurement time.
- Makes it possible to fast-forward and fast-rewind the images in the file like a video recorder, and moreover, to jump to the image with spectrum exceeding the limit line.
- ERROR is automatically displayed when the signal exceeding the limit line is input.



VSWR bridge MVS300



Frequency range : 5 to 3000MHz
 Directivity : more than 40dB @ 50 to 3000MHz
 more than 25dB @ 5 to 50MHz
 Insertion loss :
 less than 7dB @ SOURCE to DUT
 less than 8dB @ DUT to REFLECTED
 Dimensions : 50(W)×31(H)×114(D)mm
 Weight : approx.240g
 Connectors : SMA(J) (for three ports)

Dipole antenna M401 to M406



Model	Freq.range	Antenna gain	VSWR	Dimensions	Weight
M401	0.8 to 1GHz	>1dBi	<1.5	7.5φ×280mm	approx.58g
M402	1.25 to 1.65GHz	>1dBi	<1.5	7.5φ×280mm	approx.60g
M403	1.7 to 2.2GHz	>1dBi	<1.5	7.5φ×210mm	approx.58g
M404	2.25 to 2.65GHz	>1dBi	<1.5	7.5φ×210mm	approx.56g
M405	300 to 500MHz	>1dBi	<1.5	8.0φ×212mm	approx.62g
M406	4.7 to 6.2GHz	>1dBi	<1.5	7.5φ×152mm	approx.54g

- 1) Antenna gain and VSWR are specified at a center of frequency range.
- 2) Connector : N(P)

Magnetic field probe CP-2S



Frequency range : 10MHz to 3GHz
 Space resolution : approx.0.25mm
 (depending on objects)
 Dimensions : outside 12φ×135mm
 probe tip 2mm(W)×1mm(T)
 Connector : SMA(P)

USB printer



(With AC adaptor)
 and one rollpaper)
 ※ Option : Rollpaper (10 rolls)

Printing method : Thermal line dot method
 Paper : 80mm width thermal paper
 Power source :
 internal : AA-sized alkaline battery (4 pcs)
 external : 7.5VDC/3A (dedicated AC adapter)
 Dimensions : 134(W)×60(H)×180(D)mm
 Weight : approx.450g (mainframe only)
 Interface : USB 2.0

Frequency counter (factory option)

Items	Specifications
Freq.range	1MHz to 3.3GHz@MSA438/438TG/438E 1MHz to 8.5GHz@MSA458
Measured level	+10 to -70dBm@1MHz to 2GHz,RBW100kHz +10 to -60dBm@2GHz to 8.5GHz,RBW100kHz
Measurement resolution	100Hz
Display digits	8 digits max
Reference x'tal	Accuracy : ± 2 ppm@23°C Temp.characteristics : ± 5 ppm@0 to 40°C

Lithium-ion battery MB400



7.4V/5000mAh

Adapter

Model	Connector	Impedance	Freq.range
MA301	BNC(P)/BNC(J)	50 Ω /75 Ω	DC to 2GHz
MA302	BNC(P)/N(J)	75 Ω /75 Ω	DC to 1.8GHz
MA303	BNC(P)/N(P)	75 Ω /75 Ω	DC to 1.8GHz
MA304	BNC(P)/F(J)	75 Ω /75 Ω	DC to 1.8GHz
MA305	BNC(P)/F(P)	75 Ω /75 Ω	DC to 1.8GHz
MA306	N(P)/SMA(J)	50 Ω /50 Ω	DC to 12.4GHz
MA307	N(P)/BNC(J)	50 Ω /50 Ω	DC to 2GHz
MA308	N(P)/BNC(J)	50 Ω /75 Ω	DC to 2GHz
MA309	N(J)/BNC(P)	50 Ω /50 Ω	DC to 2GHz

USB cable MI400



Connector : A plug/B plug
Length : 1m

Coaxial attenuator MG-XXdB

Model	Attenuation error		V S W R	Rated power
	DC to 12.4GHz	12.4GHz to 18GHz		
MG-1dB, 2dB, 3dB, 4dB	< ± 0.5 dB	< ± 1 dB	< 1.15@DC to 4GHz	1W
MG-5dB, 6dB, 7dB, 8dB	< ± 0.7 dB	< ± 1.2 dB	< 1.2@4 to 12.4GHz	
MG-9dB, 10dB, 12dB, 13dB	< ± 1.0 dB	< ± 1.25 dB	< 1.3@12.4 to 18GHz	
MG-14dB, 15dB, 20dB	< ± 1.2 dB	< ± 1.3 dB	< 1.2@DC to 8GHz	
MG-30dB	< ± 1.2 dB@DC to 8GHz		< 1.2@DC to 8GHz	

※Connector, impedance : SMA(P)/SMA(J), 50 Ω

Terminator

Model	Freq.range	V S W R				Rated power	Connector
		DC to 4GHz	4 to 8GHz	8 to 12.4GHz	12.4 to 18GHz		
MG-50S	DC to 18GHz	< 1.08	< 1.10	< 1.15	< 1.20	0.25W	SMA(P)
MG-50N	DC to 8GHz	< 1.2@DC to 8GHz				2W	N(P)

※Impedance : 50 Ω

Coaxial cable

Model	Connector	Length	Freq.range
MC102	SMA(P)/BNC(P)	1.5m	DC to 2GHz
MC201	SMA(P)/SMA(P)	0.5m	DC to 18.5GHz
MC202	SMA(P)/SMA(P)	3m	DC to 18.5GHz
MC203	SMA(P)/SMA(P)	4m	DC to 18.5GHz
MC204	SMA(P)/SMA(P)	1.5m	DC to 12.4GHz
MC301	SMA(P)/SMA(P)	0.5m	DC to 10GHz
MC302	SMA(P)/SMA(P)	1m	DC to 10GHz
MC303	SMA(P)/SMA(P)	1.5m	DC to 10GHz
MC304	SMA(P)/N(J)	0.2m	DC to 4GHz
MC305	SMA(P)/N(P)	0.2m	DC to 4GHz
MC306	SMA(P)/BNC(J)	0.2m	DC to 2GHz
MC307	SMA(P)/BNC(P)	0.2m	DC to 2GHz
MC308	N(P)/N(P)	0.5m	DC to 10GHz
MC309	N(P)/N(P)	1m	DC to 10GHz
MC310	N(P)/N(P)	1.5m	DC to 10GHz
MC311	N(P)/SMA(J)	0.2m	DC to 10GHz
MC312	N(P)/BNC(J)	0.2m	DC to 2GHz
MC313	N(P)/BNC(P)	0.2m	DC to 2GHz
MC314	BNC(P)/BNC(P)	1.5m	DC to 2GHz

※Impedance : 50 Ω