



GSP-730 & GRF-1300

FEATURES

GSP-730 SPECTRUM ANALYZER

- Frequency Range : 150kHz ~ 3GHz
- Autoset Function
- Noise level : $\leq -100\text{dBm}$
- RBW Range : 30kHz, 100kHz, 300kHz, 1MHz
- ACPR/CHPW/OCBW Measurement
- 3 Traces in Different Colors
- Split Window Function
- Limit Line Function
- Remote Control Software
- Presentation Material for Training Courses
- Support Interface : USB Device/Host, RS-232C
- 5.6" TFT LCD with VGA Output

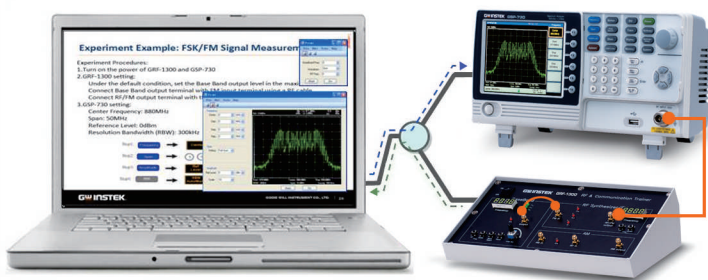
GRF-1300 COMMUNICATION TRAINER

- Waveform Support :
Sine Wave : 0.1 ~ 3MHz
Square Wave : 0.1 ~ 3MHz
Triangle Wave : 0.1 ~ 3MHz
- RF Frequency : 870 ~ 920MHz
- AM Modulation & FM Modulation
- 5 On/Off Switches and 5 Test Points to Simulate 8 Failure Conditions for Trouble-Shooting Study
- USB Interface to Provide Remote Control

Turn-key Solution for RF and Communication Experiment Courses

GW Instek GSP-730 is a 3 GHz Spectrum Analyzer developed mainly to fulfill the demands of RF Communication educations. The budget constraint and the lack of teaching tools are normally the two hurdles for schools to draw back from providing good courses for RF communication experiments. GSP-730, featuring full functions a moderate spectrum analyzer should provide, along with GRF-1300 training kit possesses a unique position in the field as an **economic turn-key solution** for 3GHz RF Communication Experiment courses.

With its components, GSP-730 Spectrum Analyzer, GRF-1300 Trainer and a PC, properly connected, a tangible system is integrated for performing on-the-fly experiments while the lecture is being given. Using a PC, the teacher can present teaching material with ppt. files and at the same time control GSP-730 and GRF-1300 to perform experiments and get spectrum displays and parameter readings on the PC screen. A ppt. file teaching material, a remote control software, a student's textbook, and a teacher's textbook are available to support this E-teaching system.



Fully-electronic RF Training System

The combination of GSP-730 and GRF-1300 forms a fundamental training system for RF communication and telecommunication classes in the universities, colleges, vocational schools, and the training centers of military and private companies. GSP-730 and GRF-1300 together provide an economic solution to clear away two obstacles, budget constraint and the lack of teaching tools, for the installation of an expensive training system.

APPLICATIONS

- Education, Training
- Fourier Theory Investigation
- Motherboard Circuit Measurement
- Wireless Communication Signal Measurements
 - GSM, 3G, 4G Mobile Phone
 - Bluetooth, Zigbee, Wi-Fi
 - AM/FM Modulation
- Remote Controller Maintenance

SPECIFICATIONS

GSP-730

FREQUENCY	Frequency Range	Setting Range	150kHz ~ 3GHz	
	Center Frequency	Setting Resolution	0.1MHz	
	Frequency Span	Accuracy	within ± 50 kHz (frequency span : 0.3GHz ~ 2.6GHz, 20 $\pm 5^\circ$ C)	
	Resolution Bandwidth	Setting range	1MHz ~ 3GHz	
SSB Phase Noise	Inherent Spurious Response	Accuracy	within $\pm 3\%$ (frequency span : 0.3GHz ~ 2.6GHz, 20 $\pm 5^\circ$ C)	
		Setting Range	30KHz, 100KHz, 300KHz, 1MHz	
			-85dBc/Hz (typical, 500kHz offset, RBW : 30kHz, Sweep time : 1.5s, Span : 1MHz@1GHz)	
AMPLITUDE	Reference Level	Input Range	+20 ~ -40dBm	
		Accuracy	Within ± 2 dB (1GHz) ; SPAN : 5MHz	
		Unit	dBm, dBV, dB μ V	
	Average Noise Level	Frequency Characteristic		≤ -100 dBm (typical, center frequency : 1GHz RBW : 30kHz)
				within ± 3.0 dB@300MHz ~ 2.6GHz
	Input		within ± 6.0 dB@80 ~ 300MHz, 2.6 ~ 3GHz	
		Input Impedance	50 Ω	
Input VSWR		less than 2.0@input att ≥ 10 dB		
	Input damage level	+30dBm (CW average power), 25VDC		
	Input connector	N connector		
SWEEP	Sweep Time	Setting Range	300ms ~ 8.4s, auto (not adjustable)	
		Accuracy	within $\pm 2\%$ (frequency span : full span)	
GENERAL	Communication Interface	Display	640 x 480 RGB color LCD	
		RS-232C	Sub-D female-D 9 pins	
		USB Connector	USB Host/Device full speed supported	
	VGA Output	Sub-D female 15 pins		
Power Source	AC 100~240V, 50/60Hz			
OTHER	Operating Temperature	5 ~ 45 $^\circ$ C (Guaranteed at 25 $\pm 5^\circ$ C, without soft carrying case)		
	Operating Humidity	Less than 45 $^\circ$ C / 90%RH		
	Storage Temperature	-20 ~ 60 $^\circ$ C, less than 60 $^\circ$ C / 70%RH		
	Dimensions	296 (L) x 153 (W) x 105 (H) mm		
	Weight	Approx. 2.2kg		

GRF-1300

BASE BAND	Waveforms	Sine, Square, Triangle
	Frequency Range	0.1 ~ 3MHz ; Step : 10kHz
	Amplitude	≥ 1.5 Vpp
RF/FM ANALYSIS	Harmonics Distortion	≥ -30 dBc
	Frequency Accuracy	± 0.15 MHz
	Adjustable Range	≥ 45 MHz (870M ~ 920MHz) ; Step: 1MHz
	Power Range	≥ -15 dBm
FM	Max Frequency Deviation	>3MHz
AM	Peak Difference	≥ -18 dBm
INTERFACE	USB	USB Device
DIMENSIONS & WEIGHT		165(W) x 155(H) x 90(D)mm, 1.2kg

Specifications subject to change without notice. SP-730GD1DH

ORDERING INFORMATION

GSP-730 3GHz Spectrum Analyzer
GRF-1300 RF and Communication System Trainer

ACCESSORIES

GSP-730 Quick start manual x 1, User manual CD x 1, Power cord x1
GRF-1300 Experiment text book of student version, Power point file and remote control software CD, RF cable x 3, Antenna x 1, N to SMA adaptor connector, Power cord x 1

OPTION

Experiment text book of teacher version

FREE DOWNLOAD

PC Software Remote Monitor Software

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