



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

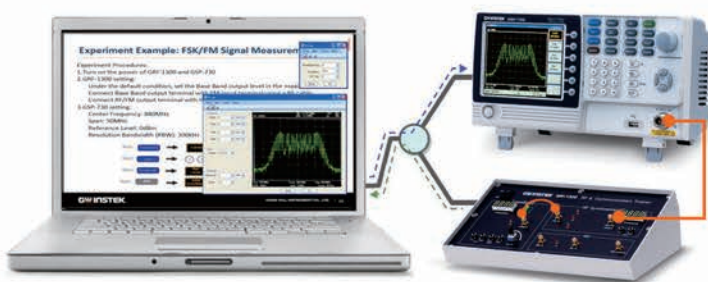
GRF-1300 RF and Communication Trainer

- 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 Learning Outcome Test
- 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 mainly developed to fulfill the demands of RF Communication educations. Budget constraint and inadequate of teaching tools are normally the two hurdles for schools to provide high-quality courses for RF communication experiments. GSP-730 is a spectrum analyzer of full functions, with appropriate combination with the training kit, GRF-1300, provide customers an economic turn-key solution for 3GHz RF Communication Experiment Courses.

With its components, GSP-730 Spectrum Analyzer, GRF-1300 RF and Communication Trainer and a PC, properly connected, a tangible system is integrated for performing ongoing experiments while the lecture is being given. Using a PC, the teacher can present teaching material with PowerPoint slide and simultaneously control GSP-730 and GRF-1300 to perform experiments and get spectrum displays and parameter readings on the PC screen. GSP-730 and GRF-1300 easily transferred the current teaching materials, including the PowerPoint slides, textbook, and the remote control software, into electronic-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 in military as well as the private companies. Instead of the tremendous cost of the installation of new training system, the conjunction of GSP-730 and GRF-1300 provides an economic solution to eliminate two obstacles, budget constraint and insufficiency of teaching tools.

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 ±50kHz (frequency span : 0.3GHz ~ 2.6GHz, 20 ±5°C)	
	Resolution Bandwidth	Setting range	1MHz ~ 3GHz	
AMPLITUDE	SSB Phase Noise	Accuracy	within ±3% (frequency span : 0.3GHz ~ 2.6GHz, 20 ±5°C)	
	Inherent Spurious Response	Setting Range	30KHz, 100KHz, 300KHz, 1MHz	
	Reference Level	-85dBc/Hz (typical, 500kHz offset, RBW : 30kHz, Sweep time : 1.5s, Span : 1MHz@1GHz)	Input Range	+20 ~ -40dBm
	Average Noise Level	Input Range	+20 ~ -40dBm	
SWEEP	Frequency Characteristic	Accuracy	Within ±2dB (1GHz) ; SPAN : 5MHz	
	Input	Unit	dBm, dBV, dBμV	
	Sweep Time	≤ -100dBm (typical, center frequency : 1GHz RBW : 30kHz)	Setting Range	300ms ~ 8.4s, auto (not adjustable)
	Power Source	within ±3.0dB@300MHz ~ 2.6GHz	Accuracy	within ±2% (frequency span : full span)
GENERAL	Display	within ±6.0dB@80 ~ 300MHz, 2.6 ~ 3GHz	640 x 480 RGB color LCD	
	Communication Interface	Input Impedance	50Ω	
	VGA Output	Input VSWR	less than 2.0@input att≥10dB	
	Power Source	Input damage level	+30dBm (CW average power), 25VDC	
OTHER	Operating Temperature	Input connector	N connector	
	Operating Humidity	5 ~ 45°C (Guaranteed at 25 ±5°C, without soft carrying case)		
	Storage Temperature	-20 ~ 60°C, less than 60°C / 70%RH		
DIMENSIONS & WEIGHT		296(L) x 153(W) x 105(H) mm / 11.6(L) x 6(W) x 4.1(H) in	Approx. 2.2kg / 4.9lb	
GRF-1300				
BASE BAND	Waveforms	Sine, Square, Triangle		
	Frequency Range	0.1 ~ 3MHz ; Step : 10kHz		
	Amplitude	≥ 1.5Vpp		
	Harmonics Distortion	≥ -30dBc		
RF/FM GENERATOR	Frequency Accuracy	±0.15MHz		
	Adjustable Range	≥ 45MHz (870M ~ 920MHz) ; Step: 1MHz		
	Power Range	≥ -15dBm		
FM	Max Frequency Deviation	>3MHz		
AM	Peak Difference	≥ -18dBm		
INTERFACE	USB	USB Device		
DIMENSIONS & WEIGHT		165(W) x 155(H) x 90(D)mm / 6.5(W) x 6.1(H) x 3.5(D)im	Approx. 1.2kg / 2.6lb	

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

GBK-001 Experiment text book of teacher version

FREE DOWNLOAD

PC Software Training system remote control software

Contact:
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 Edison, NJ 08820
 732-632-6400
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