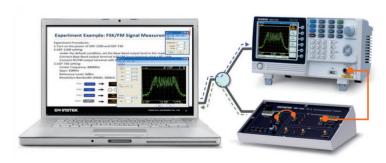


Turn-key Solution for RF and Communication Experiment Courses

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.

GSP-730 & GRF-1300

FEATURES

GSP-730 Spectrum Analyzer

- Frequency Range: 150kHz ~ 3GHz
- Autoset Function
- Noise level : ≤-100dBm
- 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
- 5 On/Off Switches and 5 lest Points to Simulate 8 Failure Conditions for Learning Outcome Test
- USB Interface to Provide Remote Control

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 Mainteinance



SPECIFICATION	S		
GSP-730			
FREQUENCY	Frequency Range Center Frequency Frequency Span Resolution Bandwidth SSB Phase Noise Inherent Spurious Response	Setting Resolution 0.1MH Accuracy within Setting range 1MHz Accuracy within Setting Range 30KHz	±50kHz (frequency span: 0.3GHz ~ 2.6GHz, 20 ±5°C) ~ 3GHz ±3% (frequency span: 0.3GHz ~ 2.6GHz, 20 ±5°C) r, 100KHz, 300KHz,1MHz RBW: 30kHz, Sweep time: 1.5s, Span: 1MHz@1GHz)
AMPLITUDE	Reference Level Average Noise Level Frequency Characteristic Input	Accuracy Within Unit dBm, $\alpha \leq -100 \text{dBm}$ (typical, center frequence within $\pm 3.0 \text{dB} \otimes 300 \text{MHz} \sim 2.6 \text{GHz}$ within $\pm 6.0 \text{dB} \otimes 80 \sim 300 \text{MHz}$, $2.6 \sim 100 \text{m}$ Input Impedance 50Ω Input VSWR less th	- 3GHz an 2.0@input att≥10dB m (CW average power), 25VDC
SWEEP	Sweep Time		s ~ 8.4s, auto (not adjustable) ±2% (frequency span : full span)
GENERAL	Display Communication Interface VGA Output Power Source	The state of the s	female-D 9 pins lost/Device full speed supported
OTHER	Operating Temperature Operating Humidity Storage Temperature	$5 \sim 45$ °C (Guaranteed at 25 ± 5 °C, will Less than 45°C / 90%RH $-20 \sim 60$ °C, less than 60 °C / 70 %RH	, ,
DIMENSIONS & WEIGHT		296(L) × 153(W) × 105(H) mm / 11 Approx. 2.2kg / 4.9lb	.6(L) x 6(W) x 4.1(H) in
GRF-1300			
BASE BAND	Waveforms Frequency Range Amplitude Harmonics Distortion	Sine, Square, Triangle 0.1 ~ 3MHz; Step: 10kHz ≥1.5Vpp ≥-30dBc	
RF/FM GENERATOR	Frequency Accuracy Adjustable Range Power Range	±0.15MHz ≥45MHz (870M ~ 920MHz) ; Step: ≥-15dBm	1MHz
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(V Approx. 1.2kg / 2.6lb	W) x 6.1 (H) x 3.5 (D)im

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 syetem remote control

software

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