



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

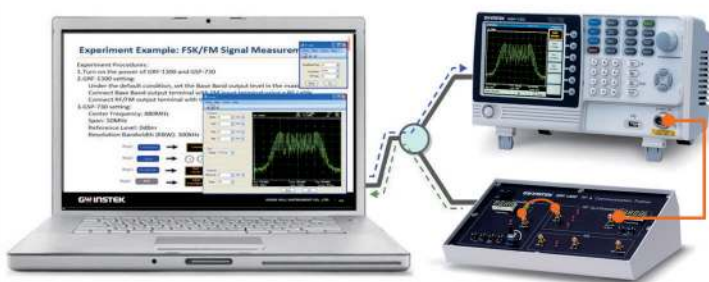
GRF-1300 RF and Communication Trainer

- 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 ± 50 kHz (frequency span : 0.3GHz ~ 2.6GHz, 20 $\pm 5^\circ$ C)
	Resolution Bandwidth	Setting range	1MHz ~ 3GHz
AMPLITUDE	Reference Level	Accuracy	within $\pm 3\%$ (frequency span : 0.3GHz ~ 2.6GHz, 20 $\pm 5^\circ$ C)
	Average Noise Level	Setting Range	30KHz, 100KHz, 300KHz, 1MHz
	Frequency Characteristic		-85dBc/Hz (typical, 500kHz offset, RBW : 30kHz, Sweep time : 1.5s, Span : 1MHz@1GHz)
	Inherent Spurious Response		less than -45dBc@-40dBm Ref. Level (typical less than -50dBc)
SWEEP	Reference Level	Input Range	+20 ~ -40dBm
	Average Noise Level	Accuracy	Within ± 2 dB (1GHz) ; SPAN : 5MHz
	Frequency Characteristic	Unit	dBm, dBV, dB μ V
	Inherent Spurious Response		≤ -100 dBm (typical, center frequency : 1GHz RBW : 30kHz)
GENERAL	Input		within ± 3.0 dB@300MHz ~ 2.6GHz
	Sweep Time	Setting Range	300ms ~ 8.4s, auto (not adjustable)
	Display	Accuracy	within $\pm 2\%$ (frequency span : full span)
	Communication Interface		
OTHER	VGA Output	640 x 480 RGB color LCD	
	Power Source	RS-232C	Sub-D female-D 9 pins
	Operating Temperature	USB Connector	USB Host/Device full speed supported
	Operating Humidity	Sub-D female 15 pins	
DIMENSIONS & WEIGHT	Storage Temperature	AC 100~240V, 50/60Hz	
	Operating Temperature	5 ~ 45°C (Guaranteed at 25 $\pm 5^\circ$ C, without soft carrying case)	
	Operating Humidity	Less than 45°C / 90%RH	
	Storage Temperature	-20 ~ 60°C, less than 60°C / 70%RH	
GRF-1300	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
	BASE BAND	Waveforms	Sine, Square, Triangle
	RF/FM GENERATOR	Frequency Range	0.1 ~ 3MHz ; Step : 10kHz
	AM	Amplitude	≥ 1.5 Vpp
INTERFACE	Harmonics Distortion	≥ -30 dBc	
	Frequency Accuracy	± 0.15 MHz	
	Adjustable Range	≥ 45 MHz (870M ~ 920MHz) ; Step: 1MHz	
	Power Range	≥ -15 dBm	
DIMENSIONS & WEIGHT	Max Frequency Deviation	>3MHz	
	Peak Difference	≥ -18 dBm	
	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)in	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

Global Headquarters

GOOD WILL INSTRUMENT CO., LTD.

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan
 T +886-2-2268-0389 F +886-2-2268-0639
 E-mail: marketing@goodwill.com.tw

China Subsidiary

GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.

NO. 69, Lushan Road, SND, Suzhou Jiangsu 215011 China
 T +86-512-6661-7177 F +86-512-6661-7277
 E-mail: marketing@instek.com.cn

Malaysia Subsidiary

GOOD WILL INSTRUMENT (M) SDN. BHD.

27, Persiaran Mahsuri 1/1, Sunway Tunas,
 11900 Bayan Lepas, Penang, Malaysia
 T +604-6309988 F +604-6309989
 E-mail: sales@goodwill.com.my

U.S.A. Subsidiary

INSTEK AMERICA CORP.

3661 Walnut Avenue Chino, CA 91710, U.S.A.
 T +1-909-5918358 F +1-909-5912280
 E-mail: sales@instekamerica.com

Japan Subsidiary

INSTEK JAPAN CORPORATION

4F, Prosper Bldg, 1-3-3 Iwamoto-Cho Chiyoda-Ku,
 Tokyo 101-0032 Japan
 T +81-3-5823-5656 F +81-3-5823-5655
 E-mail: info@instek.co.jp

Korea Subsidiary

GOOD WILL INSTRUMENT KOREA CO., LTD.

Room No.805, Ace Hightech-City B/D 1Dong,
 Mullae-Dong 3Ga 55-20, Yeongduengpo-Gu, Seoul, Korea
 T +82-2-3439-2205 F +82-2-3439-2207
 E-mail : gwinstek@gwinstek.co.kr

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www.gwinstek.com