



## Analyzer

TEST &  
MEASURING  
INSTRUMENTS

### 8GHz Vector Network Analyzer

# Protek A338

Protek A338 vector network analyzer is one of a Protek network analyzer family line covering a wider frequency range up to 8.0GHz than 3.2GHz Protek A333 has. The convenience and reliability of Protek A338 is inherited from Protek A333 and by the wider frequency range, the more applications can be used with Protek A338 in many industries.



## Features

Frequency Range (300kHz ~ 8GHz)

4 Built in S-parameters, Frequency offset, Time Domain, Bias T

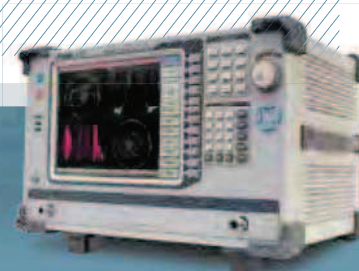
Measurement Level (-60dBm ~ +10dBm, -60dBm ~ +5dBm)

10.4 inch TFT Color LCD(Touch Screen)

USB(2)/LAN/Print/Video/Keyboard/Mouse

GPIB(Optional)

Windows XP



## Specifications

1	Frequency Range	300 KHz to 8.0 GHz	
2	CW Frequency Accuracy	$\pm 5 \times 10^{-6}$	
3	Harmonic Distortion	-25 dBc	
4	Non Harmonic Spurious	-30 dBc	
5	Output Power Level	300 KHz to 6.0 GHz	-60 dBm to +10 dBm
		6.0 GHz to 8.0 GHz	-60 dBm to +5 dBm
6	Output Power Level Accuracy	$\pm 1.0$ dB	
7	Magnitude Transmission Measurement Accuracy, If $ S_{11} $ and $ S_{22} $ of the DUT are less than -32dB, and $ S_{21} $ and $ S_{12} $ values are as follows:	+5 dB to +15 dB	0.2 dB
		-50 dB to +5 dB	0.1 dB
		-70 dB to -50 dB	0.2 dB
		-90 dB to -70 dB	1.0 dB
8	Phase Transmission Measurement Accuracy, If $ S_{11} $ and $ S_{22} $ of the DUT are less than -32dB, and $ S_{21} $ and $ S_{12} $ values are as follows:	+5 dB to +15 dB	2°
		-50 dB to +5 dB	1°
		-70 dB to -50 dB	2°
		-90 dB to -70 dB	6°
9	Magnitude Reflection Measurement Accuracy, If $ S_{11} $ and $ S_{22} $ values are as follows:	-15 dB to 0 dB	0.4 dB
		-25 dB to -15 dB	1.0 dB
		-35 dB to -25 dB	3.0 dB
10	Phase Reflection Measurement Accuracy, If $ S_{11} $ and $ S_{22} $ values are as follows:	-15 dB to 0 dB	3°
		-25 dB to -15 dB	6°
		-35 dB to -25 dB	20°
11	Receiver Noise Floor (IF Bandwidth 10Hz)	-125 dBm	
12	Trace Noise (IF Bandwidth 3kHz)	0.001 dB rms	
13	Uncorrected Directivity	18 dB	
14	Uncorrected Source Match	-18 dB	
15	Uncorrected Load Match	-18 dB	
16	AC Mains Voltage	100 to 240 VAC 50/60Hz	
17	Power Consumption	110W	
18	Dimensions L x W x H	320 x 439 x 280 mm	
19	Weight	10.05 Kgs	

## Operating Conditions

1	Temperature	5°C to 40°C
2	Humidity at 25°C	90 %
3	Atmospheric Pressure	84 to 106.7 kPa