

## Product Datasheet - Technical Specifications



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3672\*-S Series Vector Network Analyzers consist of 3672A-S (10MHz~13.5GHz), 3672B-S (10MHz~26.5GHz) and 3672C-S (10MHz~43.5GHz). 3672\*-S series reduce cost and enhance price-performance ratio but still maintain the same critical technical specifications with those of high performance instrument, such as sweep speed, dynamic range etc.. 3672\*-S series offer multiple calibration types including frequency response, single port, response isolation, enhanced response, full dual-port and E-cal. Multiple display types are embedded like logarithm amplitude, linear amplitude, standing-wave, phase, group delay, Smith chart, polar coordinates. Many standard interfaces are available including USB, LAN, GPIB, VGA etc. They can precisely measure characteristics of amplitude-frequency, phase-frequency, and group delay and so on.

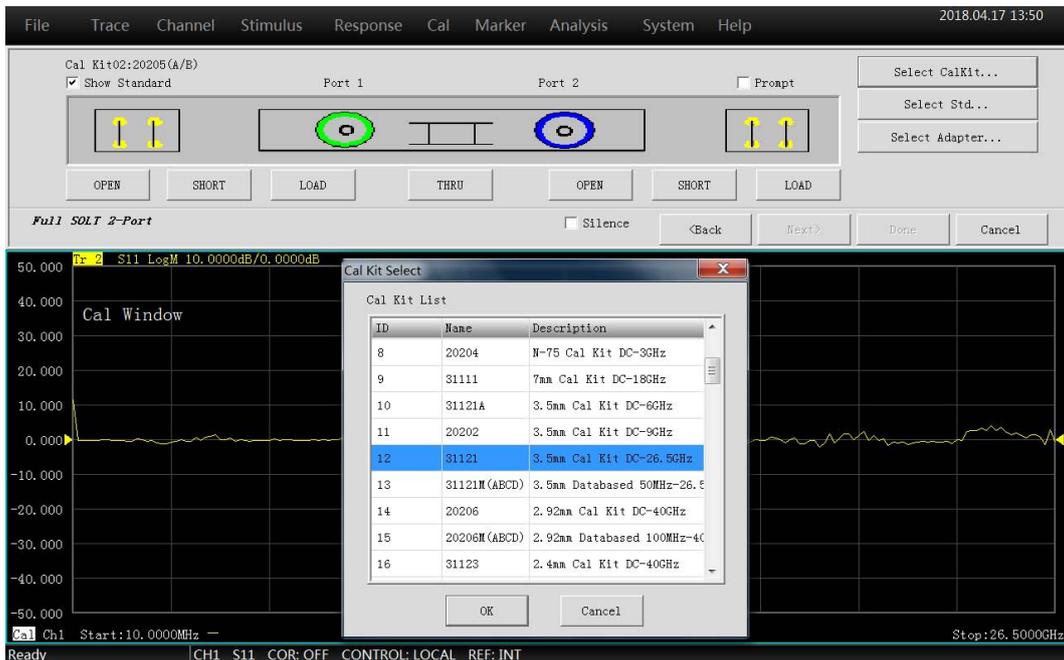
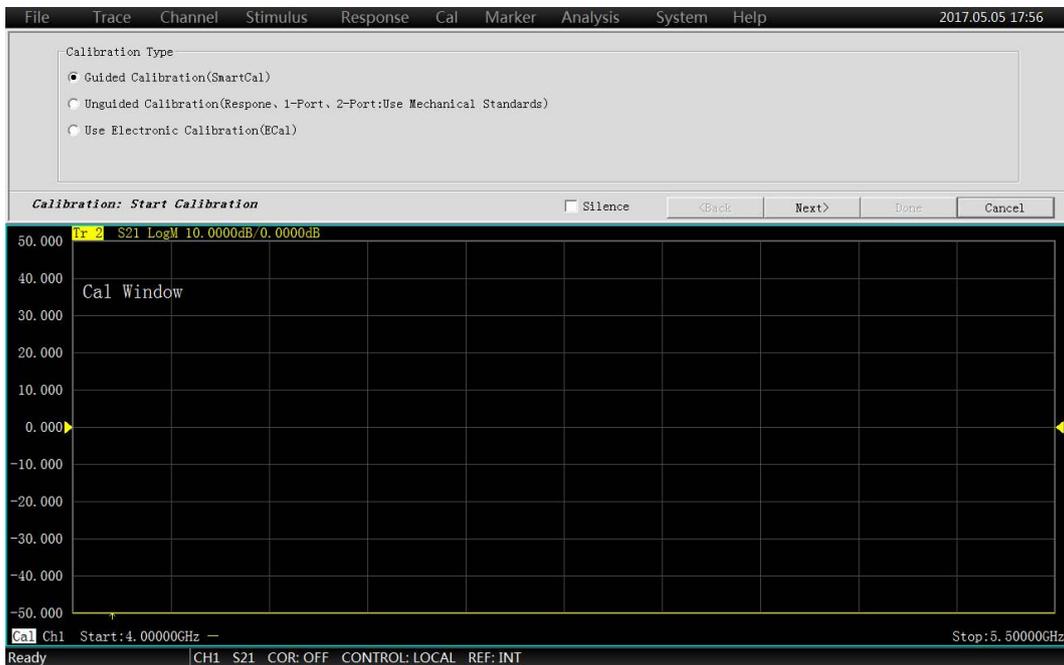
- Flexible calibration types, compatible with multiple calibration kits
- Support complicated testing solutions with many windows, multiple channels and fast operation
- Multiple display types like logarithm amplitude, linear amplitude, standing-wave ratio, Smith chart etc.
- With USB, GPIB, LAN and VGA
- 12.1 inch 1280\*800 high-resolution multi-point touch screen
- Record/Run, one-button operation simplifies measurement setup and improves working efficiency.

# Main Characteristics

## Flexible Calibration Types, Compatible with Multiple Calibration Kits

3672\*-S series can give you various calibration types, including guided calibration (auto Cal), non-guided calibration (using mechanical Cal kits for through response, through response and isolation calibration, single port calibration, enhanced response calibration, full dual-port SOLT

calibration, TRL calibration), E-Cal. Different Cal kits can be selected, like coaxial calibration kits or E-Cal kits, according to actual measurement needs, to make measurement easy for devices of diversified interfaces.

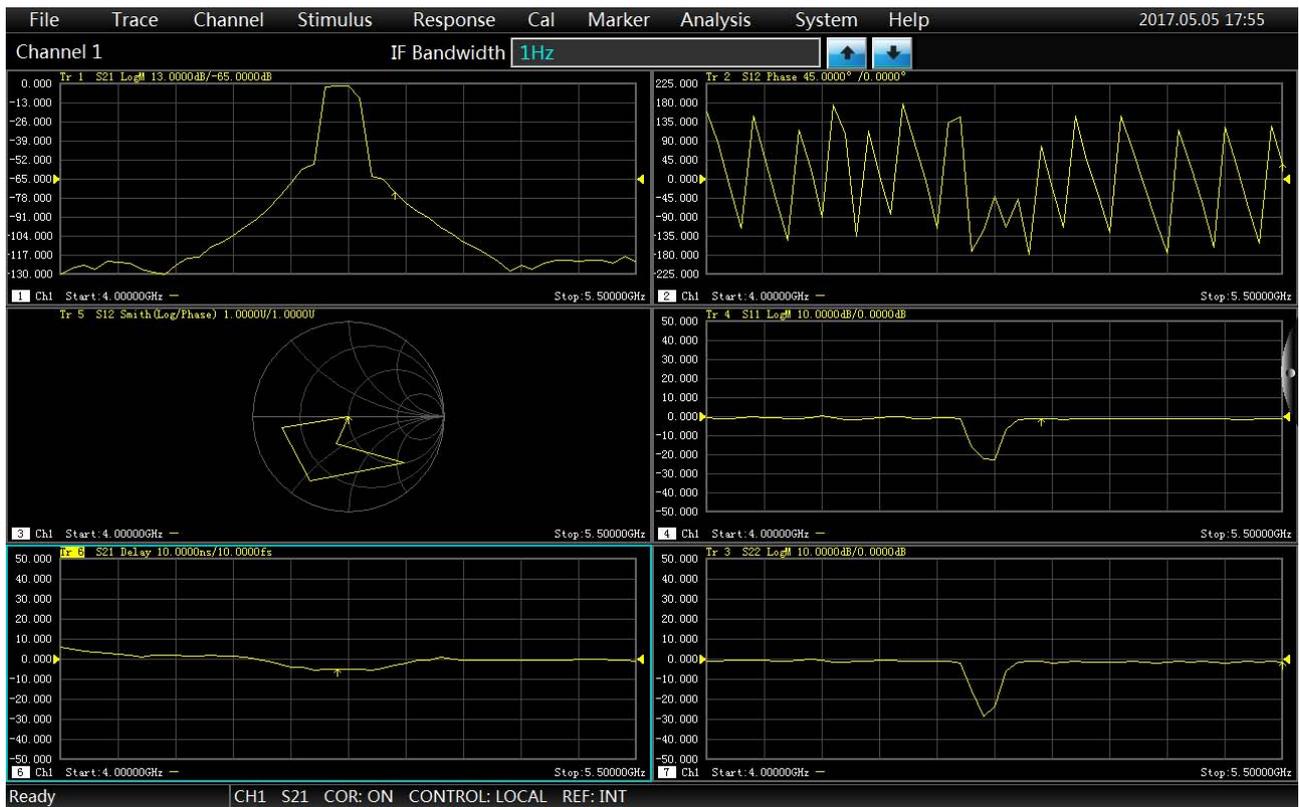


# Main Characteristics

## Multiple Windows to Display all Measuring Channels

The analyzers support up to 64 channels and display up to 32 measuring windows simultaneously, with up to 16 trace curves displayed in each win-

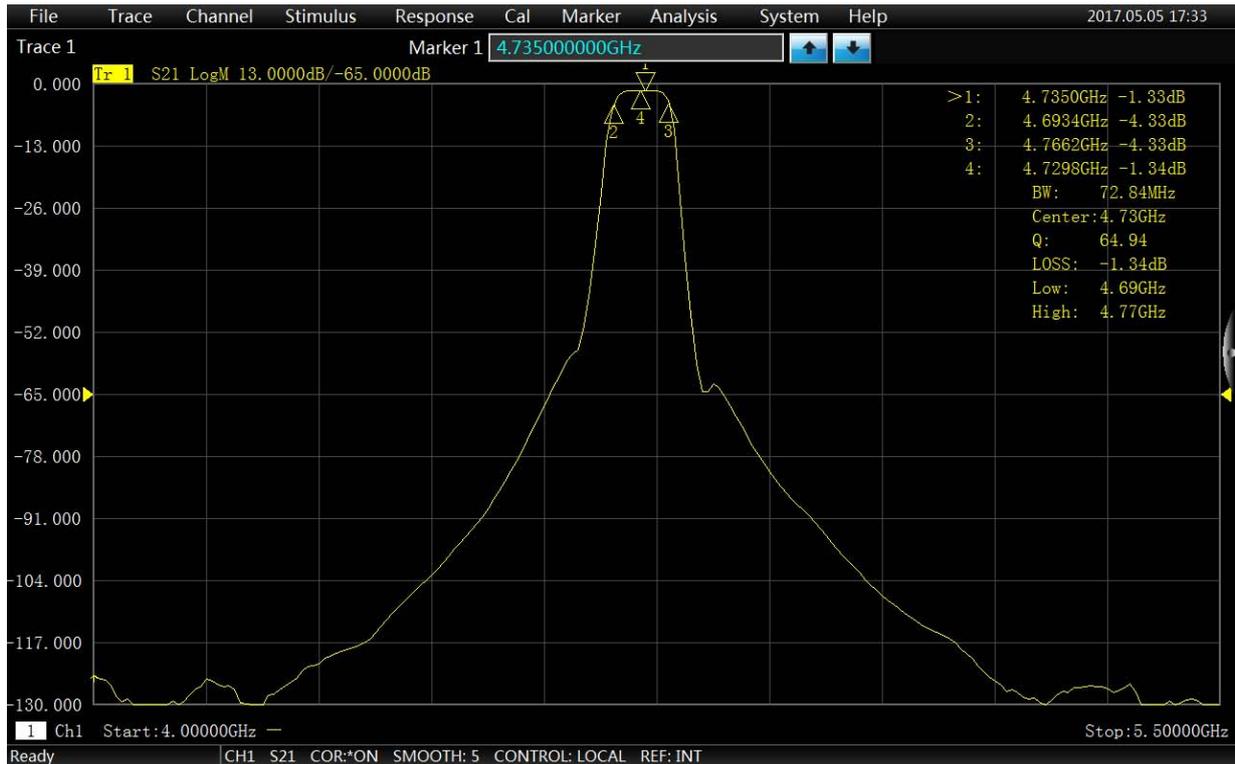
dow at the same time, allowing more visual observation and more convenient operation.



# Main Characteristics

## Wide Dynamic Range

3672\*-S series implement the design concept of mixer receiving to extend dynamic range during your complete main units testing, and to meet test requirements of large dynamic range.

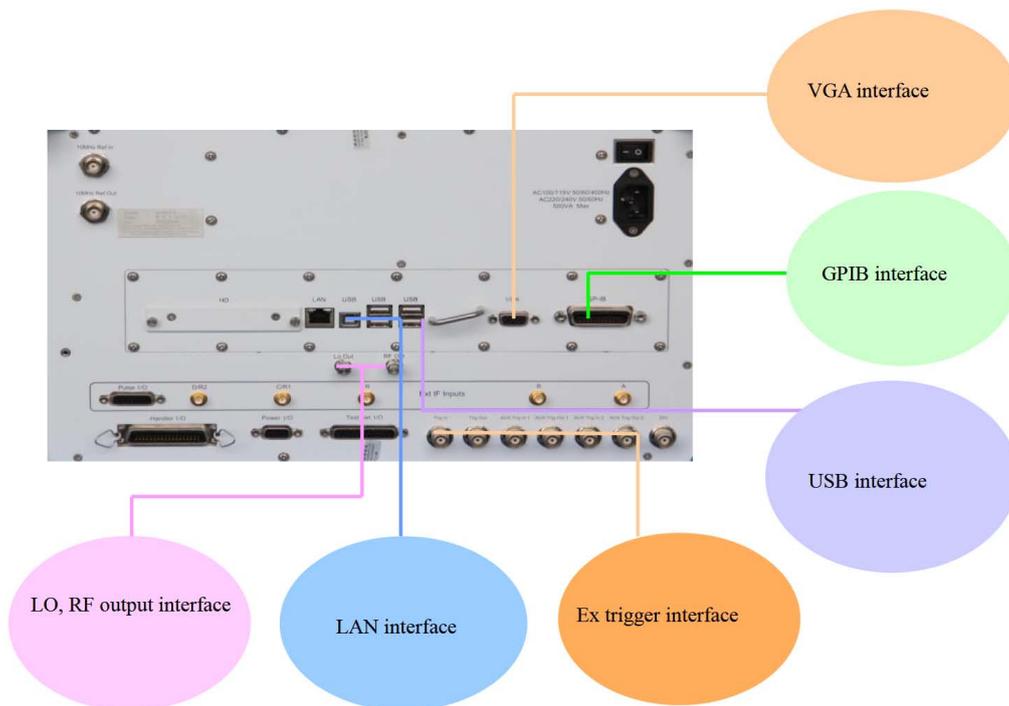


# Main Characteristics

## Abundant peripheral interfaces, flexible and practical

3672\*-S series realize the perfect combination of the instrument and PC through the hardware and software platform consisting of embedded computer module which is compatible with PC

and Windows operation system. The users can use the rich I/O interfaces (including GPIB, USB, and LAN) to realize the optimum selection of data communication.

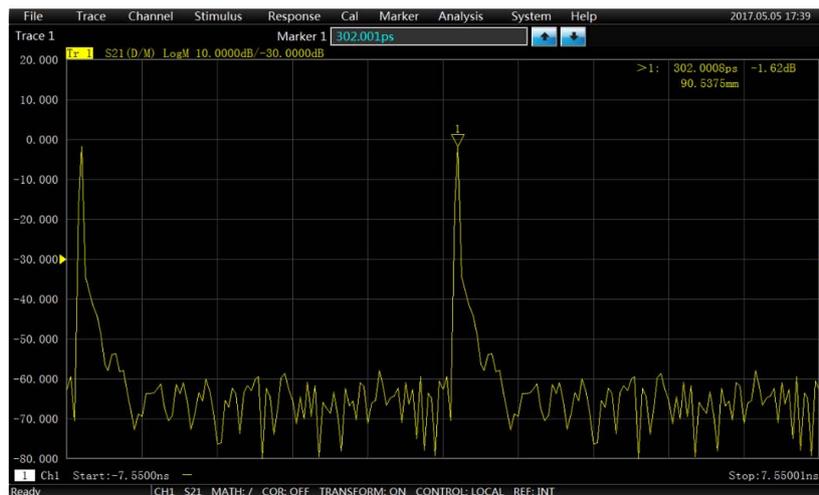
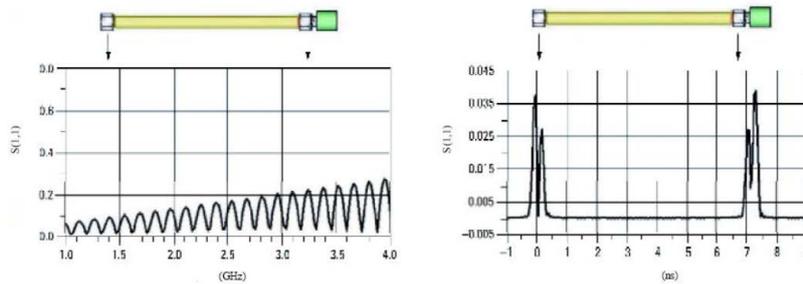


# Main Characteristics

## Time domain analysis can characterize the design thoroughly

Time domain option can facilitate the switching between frequency domain and time domain of measuring results, which can be used to identify

the discontinuous points of device, fixture or cable to realize the accurate positioning of fault site.



Frequency Characteristics				
Frequency Range	10MHz ~ 13.5/ 26.5GHz			
Frequency Resolution	1Hz			
Frequency Accuracy	$\pm 1 \times 10^{-7}$ (23°C ± 3°C)			
Port Harmonic Suppression				
Port 1 Harmonic Suppression	-48dBc (0.01 ~ 4GHz) -57dBc (4 ~ 26.5GHz)			
Port 2 Harmonic Suppression	-13dBc (0.01 ~ 4GHz) -18dBc (4 ~ 26.5GHz)			
Port Power Characteristics				
Power Sweep Range	33dB (10 ~ 50MHz) 30dB (0.05 ~ 4GHz) 34dB (4 ~ 7GHz) 31dB (7 ~ 13.5GHz) 29dB (13.5 ~ 20GHz) 25dB (20 ~ 26.5GHz)			
Max. Output Power	Frequency Range	Port 1 Filtering Mode	Port 1 High Power Mode	Port 2
	10 ~ 50MHz	0dBm	+9dBm	+13dBm
	0.05 ~ 4GHz	0dBm	+6dBm	+13dBm
	4 ~ 7GHz	+12dBm		+10dBm
	7 ~ 13.5GHz	+8dBm		+9dBm
	13.5 ~ 20GHz	+6dBm		+6dBm
	20 ~ 26.5GHz	+4dBm		+2dBm
Power Linearity (23°C ± 3°C)	±2.0dB			
Network Parameter Characteristics				
System Dynamic Range	90dB (0.01 ~ 1GHz) 120dB (1 ~ 4GHz) 127dB (4 ~ 10GHz) 120dB (10 ~ 20GHz) 115dB (20 ~ 24GHz) 110dB (24 ~ 26.5GHz)			
Effective Directivity	48dB (0.01 ~ 2GHz) 44dB (2 ~ 26.5GHz)			
Effective Source Match	40dB (0.01 ~ 2GHz) 30dB (2 ~ 26.5GHz)			
Effective Load Match	48dB (0.01 ~ 2GHz) 44dB (2 ~ 26.5GHz)			

Reflection Tracking	±0.04dB (0.01~2GHz) ±0.05dB (2~26.5GHz)
Transmission Tracking	±0.10dB (0.01~2GHz) ±0.12dB (2~26.5GHz)
Others	
Amplitude Trace Noise dB rms (1kHz IF Bandwidth)	0.050 (10~50MHz) 0.007 (50~500MHz) 0.002 (0.5~13.5GHz) 0.003 (13.5~20GHz) 0.005 (20~26.5GHz)
Phase Trace Noise deg rms (1kHz IF Bandwidth)	0.200 (10~50MHz) 0.051 (50~500MHz) 0.042 (0.5~13.5GHz) 0.054 (13.5~20GHz) 0.054 (20~26.5GHz)
IF Bandwidth	1Hz~5MHz
Amplitude Display Resolution	0.001 dB/div
Phase Display Resolution	0.01°/div
Required Value of Reference Level Amplitude Setup	-500~+500dB
Required Value of Reference Level Phase Setup	-500~+500°
General Characteristics	
Ports & Connectors	3.5mm (Male), system impedance of 50ohm
Number of Measuring Ports	2-port
Peripheral Interface	USB, GPIB, VGA, LAN
Operating System	Windows 7
Display	12.1 inch high resolution touch screen
Size	WxHxD=426mm×266mm×550mm (without stand and handles) WxHxD=516mm×279.5mm×640mm (with stand and handles)
Max. Power Consumption	400W
Max. Weight	42kg

Frequency Characteristics				
Frequency Range	10MHz~43.5GHz			
Frequency Resolutions	1Hz			
Frequency Accuracy	$\pm 1 \times 10^{-7}$ (23°C±3°C)			
Port Harmonic Suppression				
Port 1 Harmonic Suppression	-48dBc (0.01~4GHz) -57dBc (4~13.5GHz) -57dBc (13.5~43.5GHz)			
Port 2 Harmonic Suppression	-13dBc (0.01~4GHz) -18dBc (4~13.5GHz) -57dBc (13.5~43.5GHz)			
Port Power Characteristics				
Power Sweep Characteristics	32dB (10~50MHz) 29dB (0.05~4GHz) 28dB (4~13.5GHz) 30dB (13.5~40GHz) 27dB (40~43.5GHz)			
Max. Output Power	Frequency Range	Port 1 Filtering Mode	Port 1 High Power Mode	Port 2
	10~50MHz	-1dBm	+8dBm	+11dBm
	0.05~4GHz	0dBm	+5dBm	+9dBm
	4~13.5GHz	+5dBm		+6dBm
	13.5~40GHz	+7dBm		+7dBm
40~43.5GHz	+5dBm		+5dBm	
Network Parameter Characteristics				
System Dynamic Range	74dB (0.01~1GHz) 119dB (1~13.5GHz) 115dB (13.5~26.5GHz) 110dB (26.5~35GHz) 105dB (35~43.5GHz)			
Effective Directivity	42dB (0.01~13.5GHz) 38dB (13.5~40GHz) 36dB (40~43.5GHz)			
Effective Source Match	36dB (0.01~2GHz) 31dB (2~13.5GHz) 28dB (13.5~40GHz) 27dB (40~43.5GHz)			

Effective Load Match	42dB (0.01 ~ 13.5GHz) 37dB (13.5 ~ 40GHz) 35dB (40 ~ 43.5GHz)
Reflection Tracking	±0.04dB (0.01 ~ 13.5GHz) ±0.03dB (13.5 ~ 40GHz) ±0.04dB (40 ~ 43.5GHz)
Transmission Tracking	±0.1 dB (0.01 ~ 13.5GHz) ±0.16dB (13.5 ~ 40GHz) ±0.20dB (40 ~ 43.5GHz)
Others	
Amplitude Trace Noise dB rms (1kHz IF bandwidth)	0.050 (10 ~ 50MHz) 0.020 (50 ~ 500MHz) 0.005 (0.5 ~ 13.5GHz) 0.004 (13.5 ~ 26.5GHz) 0.008 (40 ~ 43.5GHz)
Phase Trace Noise deg rms (1kHz IF bandwidth)	0.900 (10 ~ 50MHz) 0.700 (50 ~ 500MHz) 0.040 (0.5 ~ 13.5GHz) 0.050 (13.5 ~ 26.5GHz) 0.060 (26.5 ~ 43.5GHz)
IF Bandwidth	1Hz ~ 5MHz
Amplitude Display Resolution	0.001 dB/div
Phase Display Resolution	0.01°/div
Required Value of Reference Level Amplitude Setup	-500 ~ +500dB
Required Value of Reference Level Phase Setup	-500 ~ +500°
General Characteristic	
Ports & Connectors	2.4mm (Male), system impedance of 50ohm
Number Of Measuring Ports	2-port
Peripheral Interface	USB, GPIB, VGA, LAN
Operating System	Windows 7
Display	12.1 inch high resolution touch screen
Size	WxHxD=426mm×266mm×600mm (without stand and handles) WxHxD=516mm×279.5mm×690mm (with stand, rear stand and handles)
Max. Power Consumption	500W
Max. Weight	47kg

Main Unit: 3672A-S Vector Network Analyzer (10MHz ~ 13.5GHz)

Main Unit: 3672B-S Vector Network Analyzer (10MHZ ~ 26.5GHZ)

Main Unit: 3672C-S Vector Network Analyzer (10MHZ ~ 43.5GHZ)

## Standard Package

No.	Description	Remarks
1	Power Cord	Standard thri-prong power cord
2	USB Keyboard/Mouse	
3	User Manual	
4	Certificate of Conformity	
5	Aluminum Alloy Box	

## 3672A/B-S Options

No.	Description	Functions
31121	3.5mm Cal Kit	For calibration of the main unit
FBOHA0HBO25.0	3.5mm Test Cable	For measurement of the main unit
FBOHA0HCO25.0	3.5mm Test Cable	For measurement of the main unit
20403	E-Cal Module	For calibration of the main unit (10MHz-26.5GHz dual-port)

## 3672C-S Options

No.	Description	Functions
31123	2.4Mm Cal Kit	For calibration of the main unit
FE0BNOBM025.0	2.4Mm Test Cable	For measurement of the main unit
FE0BNOBL025.0	2.4Mm Test Cable	For measurement of the main unit
20404	E-Cal Kit	For calibration of the main unit (10MHz-50GHz, dual-port)