

PS-CAL射频微波功率自动校准软件

PS-Cal是真正基于Windows®多任务的自动功率校准软件方案，可以批量校准多个探头，因此提高工作效率。PS-Cal操作简单、允许用户自定义设置，可以实现功率传感器的反射系数（包括模值和相位）和校准因子的校准，可以读写功率传感器EPROM，是目前市面上唯一商业化的功率校准软件。支持TEGAM所有功率校准系统，实现是德(Keysight)、罗德施瓦茨(R&S)、安立(Anritsu)、Bontoon、Giga等品牌功率探头的校准。

- 全自动射频/微波功率校准软件
- 全面支持TEGAM所有校准系统
- 校准因子、反射系数(模值/相位)
- 自定义、存储和调用校准设置模板
- 读取和写入探头EPROM
- 校准功率探头多个通道
- 支持Keysight/Agilent、R&S、Anritsu、Bontoon和Giga等多个品牌的功率探头
- 支持各品牌主流型号信号源、矢网、功率计、电压表等

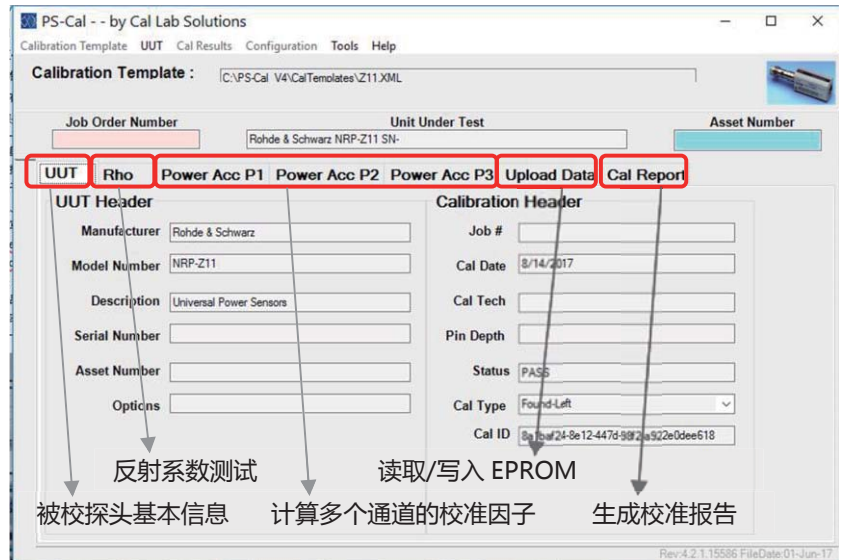


图1 PS-CAL校准功率探头多个通道(包含反射/校准因子和EPROM读写)



图2 使用PS-CAL自动校准软件的功率校准系统

支持的功率探头列表

PS-CAL对功率探头的支持包含自动控制、得出反射系数/校准因子结果和EPROM读/写等功能，根据不同功率探头的情况，包含的支持项目不同。获取更多详细信息，请联系TEGAM公司。

型号	厂家	频率范围	型号	厂家	频率范围	型号	厂家	频率范围
11722A	Agilent\HP	100 kHz to 4.2 GHz	11792A	Agilent\HP	50 MHz to 26.5 GHz	8478B	Agilent\HP	10 MHz to 18 GHz
478A	Agilent\HP	10 MHz to 10 GHz	478A	Agilent\HP	10 MHz to 10 GHz	8481A	HP\Agilent	10 MHz to 18 GHz
8481B	HP\Agilent	10 MHz to 18 GHz	8481D	HP\Agilent	10 MHz to 18 GHz	8481D-039	HP\Agilent	10 MHz to 22 GHz
8481H	HP\Agilent	10 MHz to 18 GHz	8482A	HP\Agilent	100 kHz to 4.2 GHz	8482B	HP\Agilent	100 kHz to 4.2 GHz
8482H	HP\Agilent	100 kHz to 4.2 GHz	8483A	HP\Agilent	100 kHz to 2 GHz	8484A	HP\Agilent	10 MHz to 18 GHz
8485A	HP\Agilent	50 MHz to 26.5 GHz	8485A-033	HP\Agilent	50 MHz to 33 GHz	8485D	HP\Agilent	50 MHz to 26.5 GHz
8487A	HP\Agilent	50 MHz to 50 GHz	8487D	HP\Agilent	50 MHz to 50 GHz	EPC-E18	Agilent	10 MHz to 18 GHz
EPC-E26	Agilent	50 MHz to 26.5 GHz	E4412A	Agilent	10 MHz to 18 GHz	E4413A	Agilent	50 MHz to 26.5 GHz
E9300A	Agilent	10 MHz to 18 GHz	E9300B	Agilent	10 MHz to 18 GHz	E9300H	Agilent	10 MHz to 18 GHz
E9301A	Agilent	10 MHz to 6 GHz	E9301B	Agilent	10 MHz to 6 GHz	E9301H	Agilent	10 MHz to 6 GHz
E9304A	Agilent	9 kHz to 6 GHz	E9321A	Agilent	50 MHz to 6 GHz	E9322A	Agilent	50 MHz to 6 GHz
E9323A	Agilent	50 MHz to 6 GHz	E9325A	Agilent	50 MHz to 18 GHz	E9326A	Agilent	50 MHz to 18 GHz
E9327A	Agilent	50 MHz to 18 GHz	N1921A	Agilent	50 MHz to 18 GHz	N1922A	Agilent	50 MHz to 40 GHz
N5532A-504	Agilent	100 kHz to 4.2 GHz	N5532A-518	Agilent	10 MHz to 18 GHz	N5532A-526	Agilent	30 MHz to 26.5 GHz
N5532A-550	Agilent	30 MHz to 50 GHz	N8481A	Agilent	10 MHz to 18 GHz	N8482A	Agilent	100 kHz to 6 GHz
N8485A	Agilent	10 MHz to 26.5 GHz	N8487A	Agilent	50 MHz to 50 GHz	U2000A	Agilent	10 MHz to 18 GHz
U2000B	Agilent	10 MHz to 18 GHz	U2000H	Agilent	10 MHz to 18 GHz	U2001A	Agilent	10 MHz to 6 GHz
U2001B	Agilent	10 MHz to 6 GHz	U2001H	Agilent	10 MHz to 6 GHz	U2002A	Agilent	50 MHz to 24 GHz
U2002H	Agilent	50 MHz to 24 GHz	U2004A	Agilent	9 kHz to 6 GHz	NRP-6A	R&S	8 kHz to 6 GHz
NRP-8S	R&S	10 MHz to 8 GHz	NRP-18A	R&S	8 kHz to 18 GHz	NRP-18S	R&S	10 MHz to 18 GHz
NRP-18T	R&S	DC to 18 GHz	NRP-33S	R&S	10 MHz to 33 GHz	NRP-33T	R&S	DC to 33 GHz
NRP-40S	R&S	10 MHz to 40 GHz	NRP-40T	R&S	DC to 40 GHz	NRP-50S	R&S	10 MHz to 50 GHz
NRP-50T	R&S	DC to 50 GHz	NRP-Z11	R&S	10 MHz to 18 GHz	NRP-Z21	R&S	10 MHz to 18 GHz
NRP-Z22	R&S	10 MHz to 18 GHz	NRP-Z23	R&S	10 MHz to 18 GHz	NRP-Z24	R&S	10 MHz to 18 GHz
NRP-Z27	R&S	10 MHz to 18 GHz	NRP-Z28	R&S	10 MHz to 18 GHz	NRP-Z31	R&S	10 MHz to 33 GHz
NRP-Z37	R&S	10 MHz to 18 GHz	NRP-Z41	R&S	10 MHz to 40 GHz	NRP-Z51	R&S	DC to 18 GHz
NRP-Z52	R&S	DC to 33 GHz	NRP-Z55.03	R&S	DC to 40 GHz	NRP-Z55.04	R&S	DC to 44 GHz
NRP-Z56	R&S	DC to 50 GHz	NRP-Z57	R&S	DC to 67 GHz	NRP-Z61	R&S	10 MHz to 40 GHz
NRP-Z81	R&S	50 MHz to 18 GHz	NRP-Z85	R&S	50 MHz to 40 GHz	NRP-Z86.40	R&S	50 MHz to 40 GHz
NRP-Z86.44	R&S	50 MHz to 44 GHz	NRP-Z91	R&S	9 kHz to 6 GHz	NRP-Z92	R&S	9 kHz to 6 GHz
NRP-Z98	R&S	10 MHz to 6 GHz	NRP-Z211	R&S	10 MHz to 8 GHz	NRP-Z221	R&S	10 MHz to 18 GHz
MA24002A	Anritsu	10 MHz to 18 GHz	MA24004A	Anritsu	10 MHz to 40 GHz	MA24005A	Anritsu	10 MHz to 50 GHz
MA24006A	Anritsu	10 MHz to 6 GHz	MA2411A	Anritsu	300 kHz to 40 GHz	MA2411B	Anritsu	300 kHz to 40 GHz
MA2442A	Anritsu	10 MHz to 18 GHz	MA2442B	Anritsu	10 MHz to 18 GHz	MA2442D	Anritsu	10 MHz to 18 GHz
MA2444A	Anritsu	10 MHz to 40 GHz	MA2444D	Anritsu	10 MHz to 40 GHz	MA2445A	Anritsu	10 MHz to 50GHz
MA2445D	Anritsu	10 MHz to 50GHz	MA2472A	Anritsu	10 MHz to 18 GHz	MA2472B	Anritsu	10 MHz to 18 GHz

型号	厂家	频率范围	型号	厂家	频率范围	型号	厂家	频率范围
MA2472D	Anritsu	10 MHz to 18 GHz	MA2473A	Anritsu	10 MHz to 32 GHz	MA2473D	Anritsu	10 MHz to 32 GHz
MA2474A	Anritsu	10 MHz to 40 GHz	MA2474D	Anritsu	10 MHz to 40 GHz	MA2475A	Anritsu	10 MHz to 50 GHz
MA2475D	Anritsu	10 MHz to 50 GHz	MA2481B	Anritsu	10 MHz to 6 GHz	MA2481D	Anritsu	10 MHz to 6 GHz
MA2482A	Anritsu	10 MHz to 18 GHz	MA2482B	Anritsu	10 MHz to 18 GHz	MA2490A	Anritsu	10 MHz to 8 GHz
MA2491A	Anritsu	10 MHz to 6 GHz	4240	Boonton	10 MHz to 18 GHz	51071	Boonton	10 MHz to 26.5 GHz
51072	Boonton	30 MHz to 40 GHz	51075	Boonton	30 MHz to 18 GHz	51077	Boonton	500 kHz to 18 GHz
51078	Boonton	100 kHz to 18 GHz	51079	Boonton	500 kHz to 18 GHz	51085A	Boonton	500 kHz to 18 GHz
51086A	Boonton	50 MHz to 26.5 GHz	51087A	Boonton	50 MHz to 40 GHz	51100_9E	Boonton	10 MHz to 18 GHz
51101	Boonton	100 kHz to 4.2 GHz	51102	Boonton	30 MHz to 26.5 GHz	51200	Boonton	10 MHz to 18 GHz
51201	Boonton	100 kHz to 4.2 GHz	51300	Boonton	10 MHz to 18 GHz	51301	Boonton	100 kHz to 4.2 GHz
51011_EMC	Boonton	10 MHz to 8 GHz	51011_4B	Boonton	100 kHz to 12.4 GHz	51013_4E	Boonton	100 kHz to 18 GHz
51015_5E	Boonton	100 kHz to 18 GHz	51033_6E	Boonton	100 kHz to 18 GHz	51200	Boonton	10 MHz to 18 GHz
56006	Boonton	500 kHz to 6 GHz	56018	Boonton	30 MHz to 18 GHz	56218	Boonton	30 kHz to 18 GHz
56218_S2	Boonton	30 MHz to 26.5 GHz	56318	Boonton	500 kHz to 18 GHz	56326	Boonton	500 kHz to 26.5 GHz
56340	Boonton	500 kHz to 40 GHz	56418	Boonton	500 kHz to 18 GHz	56518	Boonton	500 kHz to 18 GHz
56526	Boonton	500 kHz to 26.5 GHz	56540	Boonton	500 kHz to 40 GHz	57318	Boonton	50 MHz to 18 GHz
57518	Boonton	50 MHz to 18 GHz	57540	Boonton	50 MHz to 40 GHz	58318	Boonton	50 MHz to 18 GHz
16934	Gigatronics	30 MHz to 18.5 GHz	80301A	Gigatronics	10 MHz to 18 GHz	80302A	Gigatronics	10 MHz to 18 GHz
80303A	Gigatronics	50 MHz to 26.5 GHz	80304A	Gigatronics	50 MHz to 40 GHz	80310A	Gigatronics	10 MHz to 18 GHz
80313A	Gigatronics	50 MHz to 26.5 GHz	80314A	Gigatronics	50 MHz to 40 GHz	80320A	Gigatronics	50 MHz to 18 GHz
80321A	Gigatronics	50 MHz to 18 GHz	80322A	Gigatronics	50 MHz to 18 GHz	80323A	Gigatronics	50 MHz to 26.5 GHz
80324A	Gigatronics	50 MHz to 40 GHz	80325A	Gigatronics	50 MHz to 18 GHz	80330A	Gigatronics	10 MHz to 18 GHz
80333A	Gigatronics	10 MHz to 26.5 GHz	80334A	Gigatronics	10 MHz to 40 GHz	80350A	Gigatronics	50 MHz to 18 GHz
80351A	Gigatronics	50 MHz to 18 GHz	80352A	Gigatronics	50 MHz to 18 GHz	80353A	Gigatronics	50 MHz to 26.5 GHz
80354A	Gigatronics	50 MHz to 40 GHz	80355A	Gigatronics	50 MHz to 18 GHz	80401A	Gigatronics	50 MHz to 18 GHz
80402A	Gigatronics	50 MHz to 18 GHz	80402A	Gigatronics	50 MHz to 18 GHz	80410A	Gigatronics	50 MHz to 18 GHz
80420A	Gigatronics	50 MHz to 18 GHz	80421A	Gigatronics	50 MHz to 18 GHz	80422A	Gigatronics	50 MHz to 18 GHz
80425A	Gigatronics	50 MHz to 18 GHz	80501A	Gigatronics	10 MHz to 18 GHz	80501A	Gigatronics	10 MHz to 18 GHz
80502A	Gigatronics	10 MHz to 18 GHz	80503A	Gigatronics	10 MHz to 26.5 GHz	80504A	Gigatronics	10 MHz to 40 GHz
80601A	Gigatronics	50 MHz to 18 GHz	80621A	Gigatronics	50 MHz to 18 GHz	80701A	Gigatronics	10 MHz to 18 GHz

附表1：广泛支持各品牌主流仪器设备

Signal Generators

Agilent/HP 33250A Function/Arbitrary Waveform Generator
 Agilent/HP 3325A/B Function Generator
 Agilent/HP 8360A/B/L series Signal Generators
 Agilent 33220A Function/Arbitrary Waveform Generator
 Agilent/Keysight ESG series Signal Generators
 Agilent/Keysight EXG series Signal Generators
 Agilent/Keysight PSG series Signal Generators
 Agilent/Keysight MXG series Signal Generators
 Anritsu 68xxx Series Signal Generators
 Anritsu 69xxx Series Signal Generators
 Anritsu M369xx Series Signal Generators
 Fluke 9640A
 Fluke 96000A Series
 HP 8340A/41A Signal Generators
 HP 8648A/B/B/D Signal Generators
 HP 866xA/B Signal Generators
 R&S SMA Series Signal Generator
 R&S SMB Series Signal Generator
 R&S SMC Series Signal Generator
 R&S SML Series Signal Generator
 R&S SMY Series Signal Generator
 R&S SMF Series Signal Generator

Network Analyzers

Agilent/HP 8722D Vector Network Analyzer
 Agilent/HP 8753D/E Vector Network Analyzer
 Agilent E5071C Vector Network Analyzer
 Agilent E8361A PNS Vector Network Analyzer
 Agilent N5230 Vector Network Analyzer
 Agilent N522x Series Vector Network Analyzer
 Anritsu MS464x Series Vector Network Analyzer
 Anritsu Vector Start Series Vector Network Analyzer
 HP 3577 Scalar Network Analyzer
 HP 8510C Vector Network Analyzer
 HP 8757 Scalar Network Analyzer
 R&S ZVA Series Vector Network Analyzer
 R&S ZVL Series Vector Network Analyzer

Power Meters

Agilent/HP E4418 & 19 Power Meter
 Agilent/HP E4416 & 17 Power Meter
 Agilent/HP E4418 & 19 Power Meter
 Agilent/HP 437A Power Meter
 Agilent N1911A/12 Power Meter
 Agilent N1913A/14 Power Meter
 Anritsu ML2438A Power Meter
 Anritsu ML2437A Power Meter
 Boonton 4220 Power Meter
 Boonton 4300 Power Meter
 Boonton 4232 Power Meter
 Boonton 4500A/B Power Meter
 Boonton 4532 Power Meter
 Boonton 4542 Power Meter
 Giga-tronics 8501/2 Power Meter
 Giga-tronics 8541A Power Meter
 Giga-tronics 8651A Power Meter
 HP 432A Power Meter (requires DMM)
 HP 437A Power Meter
 HP 438B Power Meter
 R&S NRVP Power Meter
 R&S NRVD Power Meter
 R&S NRVS Power Meter
 R&S NRP/NRP2 Power Meter
 Tegam/Weinschel 1805
 Tegam/Weinschel 1806
 Tegam 1830

Digital Volt Meters

Agilent/HP 34401A Digital Multimeter
 Agilent/HP 34420A Digital Multimeter
 Agilent/HP 3458A Digital Multimeter
 Fluke 5790A AC Measurement Standard
 Fluke 8845A/46A Digital Multimeter
 Fluke 8508 Digital Multimeter
 HP 3478A Digital Multimeter

备注：信号源、矢量网、功率计、电压表等设备不限于上述型号；具体请联系 TEGAM 工程师联系。