

Feature	Wandel & Goltermann Acterna JDSU SPM-32,33,34,35,36	Wandel & Goltermann Acterna JDSU PS-33	Heuer Instruments <a href="http://www.heuer.com.au">http://www.heuer.com.au</a> LT51-PLC
			
<b>Generator</b>			
Output Connector (balanced)		TX: 3 pole CF socket	TXa-b: 2 sockets (4mm, 19mm pitch)
Output Impedances (balanced)		10, 75, 150, 600	50,75,600 Ohms
Output Connector (unbalanced)		Coaxial: Versacon 9 Universal	BNC female (with Adaptor)
Output Impedances (unbalanced)		5, 50, 75 Ohms	50,75,600 Ohms
Frequency		50 Hz to 2 MHz	100 Hz to 2.2 MHz
Setting		keypad	keypad + knob
Level, Accuracy, THD		Similar	Similar
<b>Receiver</b>			
Input Connector (balanced)	RX: 3 pole CF socket		RTXa-b-g: 3 sockets (4mm, RTXa-b:19mm pitch)
Input Impedance (balanced)	75, 150, 600, high impedance		>45k & 50,75,600 ohms
Input Connector (unbalanced)	Coaxial: Versacon 9 Universal		BNC female (with Adaptor)
Input Impedances (unbalanced)	75, high impedance		>45k & 50,75,600 ohms
Frequency Range	SPM-32A: 50 Hz to 620 kHz SPM-33A/34A/35A: 50 Hz to 2 MHz SPM-36A: 50 Hz to 3.5 MHz		100 Hz to 2.2 MHz
Frequency Setting	keypad, up/down, Auto search		keypad, knob entry, Auto search
Level Accuracy / Freq Response	Similar		Similar
Bandwidth	25 Hz, 1.74 kHz, 3.1 kHz 5 Hz (SPM-35A)		Resolution BW: 29 Hz to 38.75 kHz
Intrinsic distortion	> 60 dB		> 60 dB
Demodulator	Single Sideband Demodulation		
<b>Measurements</b>			
SPECTRUM ANALYSER			FFT with frequency zoom
LEVEL, LOSS, STABILITY(1kHz), INSERTION LOSS vs FREQUENCY	Similar	Similar	Similar
IDLE CHANNEL NOISE			Psophometer 0.41, C-Msg, 3 kHz, 15 kHz
DISTORTION			THD, SNR, SINAD, SFDR (200Hz to 2.2 MHz)
RETURN LOSS			0 to 40 dB
LCL, OSB BALANCE			0 to 60 dB
TELEPHONE			DTMF dialling, built-in speaker phone
TDR			upto 7,600 m (PVF = 0.70)
VDC			0 to 60 V
LOOP CURRENT			0 to 70 mA
VAC			0 to 60 V
INSULATION RESISTANCE			* 200Vdc Source, upto 1000 Mohms
RESISTANCE FAULT LOCATOR			* 0-7 kohm Loop, 20 Mohm Fault resistance
AC IMPEDANCE (MAGZ)			0 to 4kohm, 200 Hz to 1 MHz
MASTER-SLAVE			With 2 instruments perform end-end testing
<b>Special functions</b>			
Max Levels at all connectors	24 dBm, 60V	24 dBm, 60V	24 dBm, 60V
DC Loop Holding			RTX: DC termination (Zin), < 70 mA
Other Connections			USB type B: PC, 2.1mm DC socket: Charging store & display results (upload to PC)
Memory	100 device + 100 results	100 device settings	> 200k samples, sampling intervals: 1s to 60s
Recording Function			USB
PC Interface			LT51View PC application (free)
Remote Control			320x240 graphic LCD (w LED backlight)
Display	4 x 16 line character LCD	4 x 16 line character LCD	Battery (3pcs AA), AC line
Power Supply	Battery (2pcs 9V) or AC line	Battery (2pcs 9V) or AC line	NiMH: > 8hrs
Operating Time	Dry cell: 8hrs, NiMH: 2 hrs	Dry cell: 8hrs, NiMH: 2 hrs	with pockets for accessories/manual/cables
Soft Nylon Carry Bag			155 x 190 x 40
Dimensions (w x h x d) in mm	110 x 200 x 60	110 x 200 x 60	700 g
Weight	1 kg	1 kg	*extra cost option