Acternal JOSU PR-32 PR-3		Wandel & Goltermann	Wandel & Goltermann	Heuer Instruments
Generator Output Cernector (balanced) Output Cernector (balanced) Output Cernector (balanced) Output Importances (balanced) Ou		Acterna JDSU	Acterna JDSU	http://www.heuer.com.au
Dutput Connector (balanoed)	Feature	SPM-32,33,34,35,36	PS-33	LT51-PLC
Dutput Connector (balanoed)				The way in the case of the cas
Dutput Connector (balanoed)	Comparator			
Output Democracy (unbalanced) 10, 75, 150, 600 50,75,600 Ohms Output Democracy (unbalanced) 5,50,75 Ohms 50,75,000 Ohms Frequency 50 Hz to 2 MHz 100 Hz to 2 MHz Setting keypad keypad keypad knob Level, Accuracy, THD Similar Similar Receiver Similar Similar Input Empedance (balanced) 75, 150, 600, high impedance (balanced) 75, 150, 600, high impedance (balanced) Input Impedances (unbalanced) 75, 150, 600, high impedance (balanced) RTXa-b-g: 3 sockets (4mm, RTXa-b-19mm pite input impedances (unbalanced) Frequency Range SPM-32A-50 Hz to 620 Hz to 520 Hz to 620 Hz to 520 Hz			TV: 2 male OF analyst	TVo by 2 and boto (Amore 40 mars witch)
Output Connector (unbalanced) Consider Versacon 9 Universal SNC female (with Adaptor)			•	` ' '
S. 50, 75 Ohms	1 1 , , ,			
Setting	• , , , ,			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Setting	Output impedances (unbalanced)		3, 30, 73 Offitis	50,75,600 Onins
Setting	Frequency		50 Hz to 2 MHz	100 Hz to 2.2 MHz
Receiver	Setting			
Input Connector (balanced)	Level, Accuracy, THD			Similar
Input Connector (balanced)	Pagainan			
Input Impedance (balanced)		DV: 2 pala CE saakat		PTVs h g: 2 sockets (4mm, PTVs h:10mm nitch)
Input Connector (unbalanced)	· ' '			· · · · · · · · · · · · · · · · · · ·
Imput Impedances (unbalanced) 75, high impedance 245 & \$ 0,75,600 ohms				, ,
Frequency Range SPM-32A: 50 Hz to 620 kHz	, , ,			` ' /
SPM-33A/34/35A:	imput impedances (unbalanced)	75, riigit irripedance		7-3K & 30,73,000 OHHIS
Reyned_Lup/down, Auto search Level Accuracy / Freq Response Similar Similar Resolution BW: 29 Hz to 38.75 kHz	Frequency Range	SPM-33A/34A/35A: 50 Hz to 2 MHz		100 Hz to 2.2 MHz
Level Acouracy / Freq Response Similar 25 Hz, 1.74 kHz, 3.1 kHz 8 Resolution BW: 29 Hz to 38.75 kHz 5 Hz (SPM-35A) 1				harmad back agent Areta accept
Bandwidth				
S Hz (SPM-35A)				
Intrinsic distortion	Bandwidth			1. Control DW. 29 112 to 30.73 ki iz
Measurements SPECTRUM ANALYSER FFT with frequency zoom	Intrinsic distortion	> 60 dB		> 60 dB
SPECTRUM ANALYSER	Demodulator	Single Sideband Demodulation		
SPECTRUM ANALYSER	Management			
LEVEL, LOSS, STABILITY(1kHz), INSERTION LOSS vs FREQUENCY Similar Similar Psophometer 0.41, C-Msg, 3 kHz, 15 kHz				IFFT with factoring and accompany
INSERTION LOSS vs FREQUENCY Similar Prophender O.41, C-Msg, 3 kHz, 15 kHz				FFT with frequency zoom
DISTORTION		Similar	Similar	Similar
DISTORTION THD, SNR, SINAD, SFDR (200Hz to 2.2 MHz)		Similar	Similar	
RETURN LOSS				
LCL, OSB BALANCE				,
DTMF dialling, built-in speaker phone Upto 7,600 m (PVF = 0.70) VDC Upto 70 mA VAC Upto 160 V VDC Upto 160 V Upto 160 V VDC Upto 160 V Upt				
TDR				
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 Special functions With 2 instruments perform end-end testing Special functions V Max Levels at all connectors 24 dBm, 60V 24 dBm, 60V DC Loop Holding RTX: DC termination (Zin), < 70 mA	TDR			upto 7,600 m (PVF = 0.70)
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 Special functions With 2 instruments perform end-end testing Special functions Page 1 Max Levels at all connectors 24 dBm, 60V DC Loop Holding RTX: DC termination (Zin), < 70 mA	VDC			0 to 60 V
INSULATION RESISTANCE RESISTANCE FAULT LOCATOR RESISTANCE (MAGZ) MASTER-SLAVE MASTER-SLAVE Max Levels at all connectors DC Loop Holding Other Connections Memory				
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 Special functions With 2 instruments perform end-end testing Max Levels at all connectors 24 dBm, 60V DC Loop Holding RTX: DC termination (Zin), < 70 mA				
AC IMPEDANCE (MAGZ) MASTER-SLAVE MIT 2 instruments perform end-end testing With 2 instruments perform end-end testing Expecial functions Max Levels at all connectors 24 dBm, 60V 24 dBm, 60V 24 dBm, 60V RTX: DC termination (Zin), < 70 mA USB type B: PC, 2.1mm DC socket: Charqing With 2 instruments perform end-end testing RTX: DC termination (Zin), < 70 mA USB type B: PC, 2.1mm DC socket: Charqing Store & display results (upload to PC) > 200k samples, sampling intervals: 1s to 60s PC Interface USB Remote Control Display 4 x 16 line character LCD 4 x 16 line character LCD 320x240 graphic LCD (w LED backlight) Battery (2pcs 9V) or AC line Dry cell: 8hrs, NiMH: 2 hrs Dry cell: 8hrs, NiMH: 2 hrs Dry cell: 8hrs, NiMH: 2 hrs With pockets for accessories/manual/cables Dimensions (w x h x d) in mm 110 x 200 x 60 110 x 200 x 60 155 x 190 x 40				
MASTER-SLAVE Special functions Max Levels at all connectors DC Loop Holding Other Connections Memory According Function Recording Function PC Interface Remote Control Display Power Supply Dower Supply Doy cell: 8hrs, NiMH: 2 hrs Dry cell: 8hrs, NiMH: 2 hrs Dimensions (w x h x d) in mm Mix Levels at all connectors 24 dBm, 60V 24 dBm, 60V 24 dBm, 60V 24 dBm, 60V RTX: DC termination (Zin), < 70 mA USB type B: PC, 2.1mm DC socket: Charqing Nove Supply (a battery (2 pos 9V) or AC line) Battery (2 pos 9V) or AC line Dry cell: 8hrs, NiMH: 2 hrs Dry cell: 8hrs, NiMH: 2 hrs NiMH: > 8hrs With 2 instruments perform end-end testing With 2 instruments perform end-end testing With 2 instruments perform end-end testing Instruments perform end-end testing Set demonstance At dBm, 60V		1		
Max Levels at all connectors DC Loop Holding Cther Connections Memory Recording Function PC Interface Remote Control Display A x 16 line character LCD Display Doycer Supply Battery (2pcs 9V) or AC line Dry cell: 8hrs, NiMH: 2 hrs Dry cell: 8hrs, NiMH: 2 hrs Dimensions (w x h x d) in mm A USB type B: PC, 2.1mm DC socket: Charging USB type B: PC, 2.1mm DC socket: Charging Store & display results (upload to PC) A x 10 device settings 100 device settings	, ,			,
DC Loop Holding Other Connections Other Connections Memory 100 device + 100 results 100 device settings 100	Special functions			
DC Loop Holding Other Connections Memory 100 device + 100 results 100 device settings 10	Max Levels at all connectors	24 dBm, 60V	24 dBm, 60V	
Memory100 device + 100 results100 device settingsstore & display results (upload to PC)Recording Function> 200k samples, sampling intervals: 1s to 60sPC InterfaceUSBRemote ControlLT51View PC application (free)Display4 x 16 line character LCD4 x 16 line character LCD320x240 graphic LCD (w LED backlight)Power SupplyBattery (2pcs 9V) or AC lineBattery (2pcs 9V) or AC lineBattery (3pcs AA), AC lineOperating TimeDry cell: 8hrs, NiMH: 2 hrsDry cell: 8hrs, NiMH: 2 hrsNiMH: > 8hrsSoft Nylon Carry Bagwith pockets for accessories/manual/cablesDimensions (w x h x d) in mm110 x 200 x 60110 x 200 x 60155 x 190 x 40				\ / / /
Recording Function > 200k samples, sampling intervals: 1s to 60s PC Interface USB Remote Control LT51View PC application (free) Display 4 x 16 line character LCD 4 x 16 line character LCD 320x240 graphic LCD (w LED backlight) Power Supply Battery (2pcs 9V) or AC line Battery (2pcs 9V) or AC line Battery (3pcs AA), AC line Operating Time Dry cell: 8hrs, NiMH: 2 hrs Dry cell: 8hrs, NiMH: 2 hrs NiMH: 2 hrs With pockets for accessories/manual/cables Dimensions (w x h x d) in mm 110 x 200 x 60 110 x 200 x 60 155 x 190 x 40		100 de de . 100	400 daying a will a	USB type B: PC, 2.1mm DC socket: Charging
PC Interface Remote Control Display A x 16 line character LCD Battery (2pcs 9V) or AC line Operating Time Dry cell: 8hrs, NiMH: 2 hrs Dry cell		100 device + 100 results	100 device settings	
Remote Control Display 4 x 16 line character LCD 4 x 16 line character LCD Battery (2pcs 9V) or AC line Operating Time Dry cell: 8hrs, NiMH: 2 hrs With pockets for accessories/manual/cables Dimensions (w x h x d) in mm 110 x 200 x 60 110 x 200 x 60 155 x 190 x 40				
Display 4 x 16 line character LCD 4 x 16 line character LCD 320x240 graphic LCD (w LED backlight) Power Supply Battery (2pcs 9V) or AC line Battery (2pcs 9V) or AC line Dry cell: 8hrs, NiMH: 2 hrs Dry cell: 8hrs, NiMH: 2 hrs Dry cell: 8hrs, NiMH: 2 hrs With pockets for accessories/manual/cables Dimensions (w x h x d) in mm 110 x 200 x 60 110 x 200 x 60 155 x 190 x 40				
Power Supply Battery (2pcs 9V) or AC line Dry cell: 8hrs, NiMH: 2 hrs NiMH: > 8hrs With pockets for accessories/manual/cables Dimensions (w x h x d) in mm 110 x 200 x 60 110 x 200 x 60 155 x 190 x 40		4 x 16 line character LCD	4 x 16 line character LCD	` ' '
Operating TimeDry cell: 8hrs, NiMH: 2 hrsDry cell: 8hrs, NiMH: 2 hrsNiMH: > 8hrsSoft Nylon Carry Bagwith pockets for accessories/manual/cablesDimensions (w x h x d) in mm110 x 200 x 60110 x 200 x 60155 x 190 x 40				0 1
Soft Nylon Carry Bag with pockets for accessories/manual/cables Dimensions (w x h x d) in mm 110 x 200 x 60 110 x 200 x 60 155 x 190 x 40	117	, , ,		7:
Dimensions (w x h x d) in mm 110 x 200 x 60 110 x 200 x 60 155 x 190 x 40		,	,	
		110 x 200 x 60	110 x 200 x 60	•
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*extra cost option				*extra cost option