## Communications Electronics, Inc. and Watkins Johnson Spectrum Display Units Guide

07/30/07
This is an ongoing project. I'm always looking for more information, particularly on the variants denoted by the -x suffixes.

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	Main web page http://watkins-johnson.terryo.org					
	Main web page http://watkins-johnson.  Main web page http://watkins-johnson.  Bandwidths  21.4 MHz variable			All units are rack mount 3.5" high unless moted.  Notes		
ntt	Model	IF	Bandwidths	Notes insjohnson		
				solid-state, 1"x3" CRT		
	IP-751		, h	military version of SM-9310A		
	IP-1059	21.4MHz	30/100/500kHz/ 3MB2 0-1MHz	solid-state, 8cm x 10cm CRT, linear/log, full rack width 5.25" high, military version of SM-7301 military version of WJ-9180-1 remote SDU for RS-112 microwaye Pan-Man receiving		
	IP-1355	120MHz	0-1MHz	military version of WJ-9180-1		
	PD-102			remote SDU for RS-112 microwave Pan-Man receiving system		
	PD-201		oson.terryo.c	remote SDU same as PD-102 except 1/2 rack width		
	PD-602	160MHz	1MHDhnson.terryo.c	solid-state, 8cm x 10cm CRT, component of RS-112, half rack 5.25" high, mount in EF-602		
	SM-1622					
	SM-1622-1	160MHz	20MHz max	nuvistors or solid-state, 1"x3" CRT, 200kHz resolution, 1/2 rack width same as SM-1622 except with 1MHz resolution		
			*			

	SM-1662	160MHz	20MHz	solid-state, 1"x3" CRT, 250kHz resolution, half rack width 3.5" high, 11lbs
	SM-1662-1	160MHz	20MHz	same as SM-1662 except with 1MHz resolution
	SM-4300 tki	160MHz Siohnson te 21.4MHz	3MHz	solid-state, 1"x3" CRT, 21.4MHz marker, 1/3 rack width, 5" high solid-state, 1"x3" CRT,
	SM-4301A	21.4MHz	3MHZ	solid-state, 1"x3" CRT, 21.4MHz marker, 1/4 rack width, 6.75" high, 7.5lbs, cost \$850 (1967)
	SM-6108	84kHz	44kHz	solid-state, 1"x3" CRT, designed for displaying 64-108kHz subcarriers, 1/2
htt		84kHz ohnson.terry <sup>C</sup> 21.4MHz	ht.	rack width, 3.5" high  solid-state, 8cm x 10cm CRT, linear/log part of RS-160 receiving system, full rack width 5.25" high, SM-7301 occupies half of rack w/ provisions for DRO-308 in the other half
	SM-8421			solid-state, 1" x 3" CRT, marker generator, sweep disable, H&V outputs, (internally converts 2MHz to 455MHz), for use with VLF receivers like the 354, 355 and 357, 121bs, cost \$2500 (1968)
	SM-8510	500kHz	5/20/50kHz ins-johnson.terryo.o 5/20/50/200kHz	nuvistors & solid-state, 1"x3" CRT, lin/log display, 15lbs, cost \$1400 (1967) mod kit for pairing w/ Collins 51J-4 or 51S-1 was included
	SM-8511			wider sweep width, cost
	SM-8512	455kHz	5/20/50kHz http://watkins-johnso	\$1600 (1967)  same specs as SM-8510 except  for IF input freq, cost \$1400 (1967) mod kit for pairing with R-390 or R-390A was

## included

SM-8513 SM-9188 SM-9205	455kHz	5/20/50kHz	two SM-8512 units in 5.25" high side by side rack mount, cost \$2900 (1967)
SM-9188	455RHz	5/15/30 kHz	for use with 8718 series
		http://wat	SDU for use w/up to three receivers displays three traces simultaneously, digitally refreshed LCD display, common adjustments like sweep rate and centering are automatic, all three traces can be adjusted
	ohnson terry 2 21.4MHz	,.org	independently via manual or IEEE-488 remote control, 1/2
SM-9205-1	21.4MHz	variable to 5MHz	same as SM-92050 except 28 VDC
((C) SH-9200	ZI. HMIIZ	5MHz	simplified 9205, single trace, 3 selectable inputs, ORT display, 1/2 rack width 3.5" high.
SM-9301	21.4MHz 21.4MHz 21.4MHz	3MHz n.terryo.org	solid-state, 1"x3" CRT, 21.4MHz marker, 8lbs, cost \$850 (1967) half rack version of SM=9301, 7lbs, cost \$800 (1967)
SM-9302	21 AMHz	3MHz	half rack version of SM=9301, 7lbs, cost \$800 (1967)
		3MHz 3MHz ins-johnson.terryo.o variable 3MHz max	solid-state N1"x3" CRT,
SM-9304A	21.4MHz	3MHz hnson.terrs	half rack version of SM-9303, 10lbs, cost \$950 (1967)
SM-9310A	21.4 MHZNatk	variable 3MHz max	nuvistors, 1"x3" CRT (mil IP-751)
SM-9310-1	21.4 MHz	variable	nuvistors, 1"x3" CRT, coaxial
SM-9401B	21.4MHz	4MHz	solid-state, 1"x3" CRT, 21.4MHz marker, 8lbs
SM-9402A	21.4MHz	4MHz nttp://watkins-johns	switch added for mult sources solid state, 1"x3" CRT, 21.4MHz marker, 8lbs half rack version of

SM-9401B, 71bs

SM-9403A	21.4MHz	4MHz <sub>O</sub> rg	same specs as SM-9303A except wider sweep width
SM-9404A	21.4MHSON.	4MHz	half rack version of SM-9403A
SM-9404A SM-9801	21.4MHz	OMHZ	same specs as SM-9301, cost \$950 (1967)
SM-9802A	21.4MHz	8MHz	\$950 (1967)  half rack version of SM-9801A, cost \$900 (1967)
SM-9803A	21.4MHz	http://wat	half rack version of SM-9801A, cost \$900 (1967) same specs as SM-9303A except wider sweep width
SM-9804A	21.4MHz	8MHS	half rack version of SM-9803A
SM-9805A	21.4MHXerry	8MHz	solid-state, 2.625" x 4.625" CRT, avail with P1 or P7 phosphor solid-state 1"x3" CRT, 30MHz
SM-9803A  SM-9804A  SM-9805A  SM-9805A	30MHz	8MHz	solid-state 1"x3" CRT, 30MHz marker, 81bs, cost \$950 (1962)
SM-9832	30MHz	8MHz	half rack version of SM-9831
SPD-214	21.4MHz	3MHz max	nuvistors, 1/2 rack width
WJ-9180-1	10MHz	OO-1MHz	5-25Hz sweep rate, 10uV input sensitivity, battery powere (10 D-cell or magnesium)
http://w	21.4MHz 10MHz 10tkins-johns		BA-4386 pack) or 24VDC
WJ-9188A	455kHz	5/30kHz	solid-state, 1'x3" CRT, marker, half rack width
WJ-9188A-	18 455kHz	5/15/30kH2niter	2.5" x 3" CRT, used with WJ-8888B or WJ-8718 w/ SMO option, full rack width
WJ-9205	21, 19Hz	5kHz-5MHz	vehicular supply designed to accompany WJ8640-1 receiver [mil IP-1355/GRR-8V]  solid-state, 1'x3" CRT, marker, half rack width  2.5" x 3" CRT, used with WJ-8888B or WJ-8718 w/ SMO option, full rack width  4" CRT, displays 3 simultaneous traces, auto sweep and centering, IEEE-488 interface, 3.5"h x 8.5"w x 22"d, 1816s
WJ-9205-1	21.4MHz	5kHz-5MHz	same as WJ-9205 except 28 VDC
WJ-9206	21.4MHz	0-5MHz http://watkins-johns	interface, 3.5"h x 8.5"w x 22"d, 1815s  same as WJ-9205 except 28 VDC  4" CRT, single trace, 3.5"h

x 8.5"w x 22"d, 17lbs

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WJ-9209

455kHz 5/15/30kHz

RF panoramic display unit, digitally refreshed EL flat panel display, display 4 simultaneous scans, companion to WJ-8607 miniceptors (req WJ-8607/DSO option 5.25"h

x 8.75 w x 22 d. 131bs 2.5 x 3" CRT, five car, five selector for speaker, half rack width 5.25" high unit 2.5" x 3" CRT, five

Edited by Terry Chaughlin, WB9GVB

Additions Corrections, suggestions to: e-maj/k// - watkins-johnson@terryo.org http://w

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