

GENERAL SPECS	VX-2100/2200 Series		VX-4100 Series		VX-4200 Series		VX-5500
	VX-2100	VX-2200	VX-4104	VX-4107	VX-4204	VX-4207	
FREQUENCY RANGE	134-174 MHz 400-470 MHz 450-520 MHz	134-174 MHz 400-470 MHz 450-520 MHz	134-174 MHz	400-470 MHz	134-174 MHz	400-470 MHz	37-50 MHz
DIMENSIONS (WxHxD)	165 x 46 x 155 mm 1.3 kg	165 x 46 x 155 mm 1.3 kg	165 x 44 x 155 mm 1.4 kg	165 x 44 x 155 mm 1.4 kg	165 x 44 x 155 mm 1.4 kg	165 x 44 x 155 mm 1.4 kg	178 x 61 x 196 mm 2.2 kg
POWER OUTPUT	50W / 25W / 10W (VHF) 45W / 25W / 10W (UHF) 25W / 12.5W / 5W / 1W (25W)	50W / 25W / 10W (VHF) 45W / 25W / 10W (UHF) 25W / 12.5W / 5W / 1W (25W)	50W / 25W	45W / 25W	50W / 25W / 10W	45W / 25W / 10W	70W
CHANNELS	8	128	8	8	501	501	250
CHANNEL SPACING	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	20 kHz - Lowband, 12.5 / 25 kHz
DISPLAY	1 Character Numeric	8 Character Alphanumeric	None	None	12 Character Alphanumeric	12 Character Alphanumeric	8 Character Alphanumeric
PROGRAMMABLE BUTTONS	6 + 6 (MH-75)	6 + 6 (MH-75)	3 + 6 (MH-75)	3 + 6 (MH-75)	7 + 6 (MH-75)	7 + 6 (MH-75)	7
REMOTE CONTROL HEAD CAPABLE	-	-	-	-	-	-	X
MULTI-CONTROL HEAD CAPABLE	-	-	-	-	-	-	X
CE PROGRAMMABLE	X	X	X	X	X	X	X
RADIO TO RADIO CLONING	X	X	X	X	X	X	X
MIL SPEC CERTIFICATION	MIL 810 C,DEF 1 Year	MIL 810 C,DEF 1 Year	MIL 810 C,DEF 1 Year	MIL 810 C,DEF 1 Year	MIL 810 C,DEF 1 Year	MIL 810 C,DEF 1 Year	MIL 810 C,DE 1 Year
WARRANTY	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year
FEATURES							
COMPANDER	-	-	X	X	X	X	X
BCLO BTLOTOT	X	X	X	X	X	X	X
AUTO RANGE TRANSPOND SYSTEM (AKIS™)	X	X	X	X	X	X	X
RSI INDICATOR / RSI WARN- ING (SIGNAL STRENGTH)	-	X	-	-	-	-	-
OPTION BOARD EXPANDABILITY	X	X	X	X	X	X	X
VOICE INVERSION ENCRYPTION	Option	Option	Option	Option	Option	Option	Option
ROLLING CODE ENCRYPTION	Option	Option	Option	Option	Option	Option	Option
KEY LOCK	X	X	X	X	X	X	X
VOICE STORAGE	-	-	Option	Option	Option	Option	-
DUAL BAND	-	-	Option (RX)	Option (RX)	Option (RX)	Option (RX)	Configuration
TALKAROUND	X	X	X	X	X	X	X
PUBLIC ADDRESS / HORN ALERT	X	X	X	X	X	X	X
PROGRAMMABLE MINIMUM VOLUME	X	X	X	X	X	X	X
CTCSS/DCS ENCODE/DECODE	X	X	X	X	X	X	X
MULTI 2-TONE DECODE	X	X	X	X	X	X	-
2-TONE ENCODE/DECODE	X	X	X	X	X	X	Option
5-TONE ENCODE/DECODE	X	X	X	X	X	X	Option
REMOTE RADIO STUN, KILL, REVIVE (S-TONE)	X	X	X	X	X	X	-
DTMF ANI	X	X	X	X	X	X	X
DTMF PAGING	X	X	X	X	X	X	Option
DTMF ENCODE/ DECODE	-	-	X	X	X	X	-
DTMF SPEED DIAL	X	X	-	-	X	X	X
LONE WORKER	X	X	-	-	-	-	-
EMERGENCY	X	X	X	X	X	X	X
MDC-1200®	Option	Option	Option	Option	Option	Option	Option (ENC only)
GE-STAR®	Option	Option	Option	Option	Option	Option	Option (ENC only)
SCAN FEATURES							
SCAN	X	X	X	X	X	X	X
PRIORITY SCAN	X	X	X	X	X	X	X
DUAL PRIORITY SCAN	-	-	X	X	X	X	X
DUAL WATCH	X	X	X	X	X	X	X
FOLLOW ME SCAN	X	X	X	X	X	X	X
FOLLOW ME / DUAL WATCH	X	X	X	X	X	X	-
TA (Talk Around) SCAN	X	X	-	-	-	-	-
GROUP SCAN	X	X	-	-	X	X	X
SCAN SET	X	X	X	X	X	X	X
NUISANCE CHANNEL DELETE	X	X	X	X	X	X	X

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LMR Features Matrix

Conventional Portable and Mobile Radios

www.vertexstandard.com/emea

Portable Radios



	VX-160 Series		VX-180 Series		VX-230 Series		VX-350 Series		VX-410 Series		VX-420 Series		VX-820 Series		VX-920 Series	
	VX-160	VX-180	VX-231	VX-351	VX-354	VX-414	VX-417	VX-424	VX-427	VX-821	VX-824	VX-829	VX-921	VX-924	VX-929	
GENERAL SPECS																
FREQUENCY RANGE	134-160 MHz, 146-174 MHz, 400-430 MHz, 440-470 MHz	134-160 MHz, 146-174 MHz, 400-430 MHz, 440-470 MHz	134-174 MHz, 400-470 MHz, 450-520 MHz	134-174 MHz, 400-470 MHz	134-174 MHz, 400-470 MHz	134-160 MHz, 146-174 MHz	400-430 MHz, 440-470 MHz	134-160 MHz, 146-174 MHz	400-430 MHz, 440-470 MHz	134-174 MHz, 400-470 MHz	134-174 MHz, 400-470 MHz	134-174 MHz, 400-470 MHz	134-174 MHz, 400-470 MHz	134-174 MHz, 400-470 MHz	134-174 MHz, 400-470 MHz	134-174 MHz, 400-470 MHz
DIMENSIONS (with standard battery) WxHxD	58 x 120 x 131 mm	58 x 120 x 131 mm	58 x 110 x 30 mm	58 x 104 x 33 mm	58 x 104 x 33 mm	58 x 110 x 30 mm	58 x 110 x 30 mm	58 x 110 x 30 mm	58 x 110 x 30 mm	58 x 97 x 39 mm	58 x 97 x 39 mm	58 x 97 x 39 mm	58 x 135 x 39 mm	58 x 135 x 39 mm	58 x 135 x 39 mm	
WEIGHT (with standard battery)	320g	320g	286g	310g	310g	300g	300g	300g	300g	310g	310g	310g	370g	370g	370g	
POWER OUTPUT	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	5W / 1W	
NUMBER OF CHANNELS	16	16	16	16	16	32	32	32	32	16	512	512	48	512	512	
CHANNEL SPACING	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	12.5 / 20 / 25 kHz	
DISPLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KEYPAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PROGRAMMABLE BUTTONS	1 (dual-function)	4	2	2	2	2	2	2	2	3	6	6	3	6	6	
CE PROGRAMMABLE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
RADIO TO RADIO CLONING	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
AVAILABLE BATTERIES	1800 mAh NiMH, 2000 mAh Li-ion	1800 mAh NiMH, 2000 mAh Li-ion	1150 mAh Li-ion, 2000 mAh Li-ion, 1200 mAh NiMH	2000 mAh Li-ion	2000 mAh Li-ion	1800 mAh Li-ion, 2000 mAh Li-ion	1800 mAh Ni-MH, 2000 mAh Li-ion	1800 mAh Ni-MH, 2000 mAh Li-ion	1800 mAh Ni-MH, 2000 mAh Li-ion	1150 mAh Li-ion, 2000 mAh Li-ion, 3000 mAh Li-ion	1150 mAh Li-ion, 2000 mAh Li-ion, 3000 mAh Li-ion	1150 mAh Li-ion, 2000 mAh Li-ion, 3000 mAh Li-ion	1150 mAh Li-ion, 2000 mAh Li-ion, 3000 mAh Li-ion	1150 mAh Li-ion, 2000 mAh Li-ion, 3000 mAh Li-ion	1150 mAh Li-ion, 2000 mAh Li-ion, 3000 mAh Li-ion	
AA BATTERY AVAILABILITY	-	-	-	-	-	6 AA cell pack	6 AA cell pack	6 AA cell pack	6 AA cell pack	6 AA cell pack	6 AA cell pack	6 AA cell pack	6 AA cell pack	6 AA cell pack	6 AA cell pack	
INTRINSICALLY SAFE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AUDIO OUTPUT	500 mW	500 mW	500 mW	500 mW	500 mW	500 mW	500 mW	500 mW	500 mW	500 mW	500 mW	700 mW	700 mW	700 mW	700 mW	
MIL STD CERTIFICATION	MIL 810 C, D, E, F	MIL 810 C, D, E, F	MIL 810 C, D, E, F	MIL 810 C, D, E, F	MIL 810 C, D, E, F	MIL 810 D, E, F	MIL 810 D, E, F	MIL 810 D, E, F	MIL 810 D, E, F	MIL 810 C, D, E, F	MIL 810 C, D, E, F	MIL 810 C, D, E, F	MIL 810 C, D, E, F	MIL 810 C, D, E, F	MIL 810 C, D, E, F	
IP RATING	IP54	IP54	IP54	IP55	IP55	IP54	IP54	IP54	IP54	IP57 (VX-821)	IP57 (VX-824)	IP57 (VX-829)	IP57 (VX-921)	IP57 (VX-924)	IP57 (VX-929)	
WARRANTY	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	
FEATURES																
COMPANDER	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	
BATTERY STATUS INDICATOR (TONE)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BATTERY GAS GAUGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RFSS INDICATOR / RSSI WARNING (SIGNAL STRENGTH)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BATTERY SAVER CIRCUIT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BCLO, BTLO, TOT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
AUTO RANGE TRANSPOND SYSTEM (ARTS™)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
INTERNAL VOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OPTION BOARD EXPANDABILITY	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	
VOICE INVERSION ENCRYPTION	-	-	-	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	
ROLLING CODE ENCRYPTION	-	-	-	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	
KEY LOCK	X	X	X	X	X	-	-	-	-	Lock	Lock	Lock	Lock	Lock	Lock	
VOICE STORAGE	-	-	-	-	-	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	
TALKAROUND	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SIGNALING FEATURES																
CTCSS/DCS ENCODE/DECODE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DUAL 2-TONE DECODE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2-TONE ENCODE/DECODE	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	X (CE version)	
5-TONE ENCODE/DECODE	X (CE version)	X (CE version)	X (CE version)	X	X	X	X	X	X	X	X	X	X	X	X	
REMOTE RADIO STUN, KILL, REVIVE (5-TONE)	X (CE version)	X (CE version)	X (CE version)	X	X	X	X	X	X	X	X	X	X	X	X	
DTMF ANI	X	X	X	X	X	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	
DTMF PAGING	-	-	-	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	
LOVE WORKER	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	
EMERGENCY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MDC-1200®	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MDC-1200@ANI/ENI	-	-	-	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	
GE-STAR®	-	-	-	Option (ENC only)	Option (ENC only)	Option (ENC only)	Option (ENC only)	Option (ENC only)	Option (ENC only)	Option (ENC only)	Option (ENC only)	Option (ENC only)	Option (ENC only)	Option (ENC only)	Option (ENC only)	
DTMF ENCODE/DECODE	-	-	-	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	
DTMF SPEED DIAL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SCAN FEATURES																
SCAN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PRIORITY SCAN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DUAL PRIORITY SCAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DUAL WATCH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FOLLOW ME SCAN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FOLLOW ME / DUAL WATCH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TA (Talk-Around) SCAN	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	
NUISANCE CHANNEL DELETE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SCAN SET	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ADD / DELETE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GROUP SCAN	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	

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