



5 Watts Submersible 6 m/2 m/70 cm Tri-Band FM Handheld (222 MHz:1.5 W) *

VX-8DR/E *

5 Watts GPS 2 m/70 cm Dual Band FM Handheld

VX-8GR/E *

* E for European Version



Actual size

PRESTIGE HANDHELD

VX-8DR/E

6 m / 2 m / 70 cm

FM 5 W / AM 1 W (6 m) Triplie Band Handheld

***222 MHz 1.5 W (US Version)**

Wideband receive

500 kHz - 999 MHz / Cellular blocked - US version

Bluetooth® operation (Optional)



Actual size

ALL IN ONE HANDHELD

VX-8GR/E

2 m / 70 cm

FM 5 W Dual Band Handheld

Wideband receive

108 - 999 MHz / Cellular blocked - US version

Built-in GPS antenna and data terminal

A TECHNOLOGY BREAKTHROUGH

New Advanced VX-8 Series GPS/APRS® Handheld Transceivers Chose one that matches your style!

8DR/E

6 m/2 m/70 cm (220 MHz/USA Version)
Tri-Band FM Handheld
Heavy Duty : IPX7 Waterproof Rating
Bluetooth® Capabilities (optional)
Wideband Receive :
500 kHz to 999.990 MHz
The optional GPS Antenna Unit FGPS-2

The optional GPS antenna may be attached to the radio microphone input jack using the CT-136 adapter. Or it may be mounted on the MH-74A7A Speaker Microphone.



6 m/2 m/70 cm (220 MHz) Triple Band FM Transceiver

VX-8DR/E*

(7.4 V 1,100 mAh Lithium Ion battery FNB-101LI and battery charger NC-86 included)

8GR/E

2 m/70 cm Dual Band FM Handheld
Waterproof IPX5 Rating
Built-in GPS antenna and Data terminal
Wideband Receive :
108 MHz to 999.990 MHz



2 m/70 cm Dual Band FM Transceiver

VX-8GR/E*

(7.4 V 1,100 mAh Lithium Ion battery FNB-101LI and battery charger NC-86 included)

**Heavy duty, tough and rugged
ready for your field operation!**

8DR/E Waterproof/Submersible IPX 7 rated - 3 ft (1m) for 30 minutes

8GR/E Fully ruggedized and waterproof (IPX5) design - Perfect for extreme sports and outdoor use

**8DR/E
8GR/E** Ultra-Rugged Polycarbonate Resin Front Panel with Aluminum die-cast chassis

The tough compact case combines a rugged die-cast chassis with the clean and tough polycarbonate resin front panel. Its high shock proof versatility will allow you to operate the radio in the toughest environments!



**8DR/E
8GR/E** Enjoy 5 W high power and long hours of operation! (The optional Cell Holder FBA-39 permits operation with 3 AA batteries.)

You will enjoy up to 5 hours operation on 144/430 MHz with the supplied FNB-101LI Lithium-ion battery. The optional FNB-102LI High Capacity Lithium-ion Battery will provide up to 8.5 hours on 144 MHz, and 8 hours on 430 MHz.

■ Approximate Battery Operating time
(VX-8DR/E on one band with no optional items)

Operating Band	Battery Life (Approx.)		
	FNB-101LI	FNB-102LI	FBA-39
50 MHz	5.5 hours	9.0 hours	20 hours
144 MHz	5.0 hours	8.5 hours	17 hours
222 MHz (USA version)	6.0 hours	11 hours	20 hours
430 MHz	5.0 hours	8.0 hours	16 hours
Broadcast Band	13 hours	20 hours	20 hours

---Also VX-8GR/E on 2 m / 70 cm Band.

*Reference only. May vary depending on environmental temperature, humidity, etc.

*TX (5 W) 6 sec./RX 6 sec., and squelched 48 sec.

**8DR/E
8GR/E** Real dual Ham Band Operation (V+V/U+U/V+U)

With two completely independent Amateur Radio Band Receivers, you can listen to either the same or a different band simultaneously.

UFO 145.000 (4) H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 H11 H12 H13 H14 H15 H16 H17 H18 H19 H20 H21 H22 H23 H24 H25 H26 H27 H28 H29 H30 H31 H32 H33 H34 H35 H36 H37 H38 H39 H40 H41 H42 H43 H44 H45 H46 H47 H48 H49 H50 H51 H52 H53 H54 H55 H56 H57 H58 H59 H60 H61 H62 H63 H64 H65 H66 H67 H68 H69 H70 H71 H72 H73 H74 H75 H76 H77 H78 H79 H80 H81 H82 H83 H84 H85 H86 H87 H88 H89 H90 H91 H92 H93 H94 H95 H96 H97 H98 H99 H100 H101 H102 H103 H104 H105 H106 H107 H108 H109 H110 H111 H112 H113 H114 H115 H116 H117 H118 H119 H120 H121 H122 H123 H124 H125 H126 H127 H128 H129 H130 H131 H132 H133 H134 H135 H136 H137 H138 H139 H140 H141 H142 H143 H144 H145 H146 H147 H148 H149 H150 H151 H152 H153 H154 H155 H156 H157 H158 H159 H160 H161 H162 H163 H164 H165 H166 H167 H168 H169 H170 H171 H172 H173 H174 H175 H176 H177 H178 H179 H180 H181 H182 H183 H184 H185 H186 H187 H188 H189 H190 H191 H192 H193 H194 H195 H196 H197 H198 H199 H200 H201 H202 H203 H204 H205 H206 H207 H208 H209 H210 H211 H212 H213 H214 H215 H216 H217 H218 H219 H220 H221 H222 H223 H224 H225 H226 H227 H228 H229 H230 H231 H232 H233 H234 H235 H236 H237 H238 H239 H240 H241 H242 H243 H244 H245 H246 H247 H248 H249 H250 H251 H252 H253 H254 H255 H256 H257 H258 H259 H260 H261 H262 H263 H264 H265 H266 H267 H268 H269 H270 H271 H272 H273 H274 H275 H276 H277 H278 H279 H280 H281 H282 H283 H284 H285 H286 H287 H288 H289 H290 H291 H292 H293 H294 H295 H296 H297 H298 H299 H300 H301 H302 H303 H304 H305 H306 H307 H308 H309 H310 H311 H312 H313 H314 H315 H316 H317 H318 H319 H320 H321 H322 H323 H324 H325 H326 H327 H328 H329 H330 H331 H332 H333 H334 H335 H336 H337 H338 H339 H340 H341 H342 H343 H344 H345 H346 H347 H348 H349 H350 H351 H352 H353 H354 H355 H356 H357 H358 H359 H360 H361 H362 H363 H364 H365 H366 H367 H368 H369 H370 H371 H372 H373 H374 H375 H376 H377 H378 H379 H380 H381 H382 H383 H384 H385 H386 H387 H388 H389 H390 H391 H392 H393 H394 H395 H396 H397 H398 H399 H400 H401 H402 H403 H404 H405 H406 H407 H408 H409 H410 H411 H412 H413 H414 H415 H416 H417 H418 H419 H420 H421 H422 H423 H424 H425 H426 H427 H428 H429 H430 H431 H432 H433 H434 H435 H436 H437 H438 H439 H440 H441 H442 H443 H444 H445 H446 H447 H448 H449 H450 H451 H452 H453 H454 H455 H456 H457 H458 H459 H460 H461 H462 H463 H464 H465 H466 H467 H468 H469 H470 H471 H472 H473 H474 H475 H476 H477 H478 H479 H480 H481 H482 H483 H484 H485 H486 H487 H488 H489 H490 H491 H492 H493 H494 H495 H496 H497 H498 H499 H500 H501 H502 H503 H504 H505 H506 H507 H508 H509 H510 H511 H512 H513 H514 H515 H516 H517 H518 H519 H520 H521 H522 H523 H524 H525 H526 H527 H528 H529 H530 H531 H532 H533 H534 H535 H536 H537 H538 H539 H540 H541 H542 H543 H544 H545 H546 H547 H548 H549 H550 H551 H552 H553 H554 H555 H556 H557 H558 H559 H560 H561 H562 H563 H564 H565 H566 H567 H568 H569 H570 H571 H572 H573 H574 H575 H576 H577 H578 H579 H580 H581 H582 H583 H584 H585 H586 H587 H588 H589 H590 H591 H592 H593 H594 H595 H596 H597 H598 H599 H600 H601 H602 H603 H604 H605 H606 H607 H608 H609 H610 H611 H612 H613 H614 H615 H616 H617 H618 H619 H620 H621 H622 H623 H624 H625 H626 H627 H628 H629 H630 H631 H632 H633 H634 H635 H636 H637 H638 H639 H640 H641 H642 H643 H644 H645 H646 H647 H648 H649 H650 H651 H652 H653 H654 H655 H656 H657 H658 H659 H660 H661 H662 H663 H664 H665 H666 H667 H668 H669 H670 H671 H672 H673 H674 H675 H676 H677 H678 H679 H680 H681 H682 H683 H684 H685 H686 H687 H688 H689 H690 H691 H692 H693 H694 H695 H696 H697 H698 H699 H700 H701 H702 H703 H704 H705 H706 H707 H708 H709 H710 H711 H712 H713 H714 H715 H716 H717 H718 H719 H720 H721 H722 H723 H724 H725 H726 H727 H728 H729 H730 H731 H732 H733 H734 H735 H736 H737 H738 H739 H740 H741 H742 H743 H744 H745 H746 H747 H748 H749 H750 H751 H752 H753 H754 H755 H756 H757 H758 H759 H760 H761 H762 H763 H764 H765 H766 H767 H768 H769 H770 H771 H772 H773 H774 H775 H776 H777 H778 H779 H780 H781 H782 H783 H784 H785 H786 H787 H788 H789 H790 H791 H792 H793 H794 H795 H796 H797 H798 H799 H800 H801 H802 H803 H804 H805 H806 H807 H808 H809 H810 H811 H812 H813 H814 H815 H816 H817 H818 H819 H820 H821 H822 H823 H824 H825 H826 H827 H828 H829 H830 H831 H832 H833 H834 H835 H836 H837 H838 H839 H840 H841 H842 H843 H844 H845 H846 H847 H848 H849 H850 H851 H852 H853 H854 H855 H856 H857 H858 H859 H860 H861 H862 H863 H864 H865 H866 H867 H868 H869 H870 H871 H872 H873 H874 H875 H876 H877 H878 H879 H880 H881 H882 H883 H884 H885 H886 H887 H888 H889 H890 H891 H892 H893 H894 H895 H896 H897 H898 H899 H900 H901 H902 H903 H904 H905 H906 H907 H908 H909 H910 H911 H912 H913 H914 H915 H916 H917 H918 H919 H920 H921 H922 H923 H924 H925 H926 H927 H928 H929 H930 H931 H932 H933 H934 H935 H936 H937 H938 H939 H940 H941 H942 H943 H944 H945 H946 H947 H948 H949 H950 H951 H952 H953 H954 H955 H956 H957 H958 H959 H960 H961 H962 H963 H964 H965 H966 H967 H968 H969 H970 H971 H972 H973 H974 H975 H976 H977 H978 H979 H980 H981 H982 H983 H984 H985 H986 H987 H988 H989 H990 H991 H992 H993 H994 H995 H996 H997 H998 H999 H1000 H1001 H1002 H1003 H1004 H1005 H1006 H1007 H1008 H1009 H1010 H1011 H1012 H1013 H1014 H1015 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H1680 H1681 H1682 H1683 H1684 H1685 H1686 H1687 H1688 H1689 H1690 H1691 H1692 H1693 H1694 H1695 H1696 H1697 H1698 H1699 H1700 H1701 H1702 H1703 H1704 H1705 H1706 H1707 H1708 H1709 H1710 H1711 H1712 H1713 H1714 H1715 H1716 H1717 H1718 H1719 H1720 H1721 H1722 H1723 H1724 H1725 H1726 H1727 H1728 H1729 H1730 H1731 H1732 H1733 H1734 H1735 H1736 H1737 H1738 H1739 H1740 H1741 H1742 H1743 H1744 H1745 H1746 H1747 H1748 H1749 H1750 H1751 H1752 H1753 H1754 H1755 H1756 H1757 H1758 H1759 H1760 H1761 H1762 H1763 H1764 H1765 H1766 H1767 H1768 H1769 H1770 H1771 H1772 H1773 H1774 H1775 H1776 H1777 H1778 H1779 H1780 H1781 H1782 H1783 H1784 H1785 H1786 H1787 H1788 H1789 H1790 H1791 H1792 H1793 H1794 H1795 H1796 H1797 H1798 H1799 H1800 H1801 H1802 H1803 H1804 H1805 H1806 H1807 H1808 H1809 H1810 H1811 H1812 H1813 H1814 H1815 H1816 H1817 H1818 H1819 H1820 H1821 H1822 H1823 H1824 H1825 H1826 H1827 H1828 H1829 H1830 H1831 H1832 H1833 H1834 H1835 H1836 H1837 H1838 H1839 H1840 H1841 H1842 H1843 H1844 H1845 H1846 H1847 H1848 H1849 H1850 H1851 H1852 H1853 H1854 H1855 H1856 H1857 H1858 H1859 H1860 H1861 H1862 H1863 H1864 H1865 H1866 H1867 H1868 H1869 H1870 H1871 H1872 H1873 H1874 H1875 H1876 H1877 H1878 H1879 H1880 H1881 H1882 H1883 H1884 H1885 H1886 H1887 H1888 H1889 H1890 H1891 H1892 H1893 H1894 H1895 H1896 H1897 H1898 H1899 H1900 H1901 H1902 H1903 H1904 H1905 H1906 H1907 H1908 H1909 H1910 H1911 H1912 H1913 H1914 H1915 H1916 H1917 H1918 H1919 H1920 H1921 H1922 H1923 H1924 H1925 H1926 H1927 H1928 H1929 H1930 H1931 H1932 H1933 H1934 H1935 H1936 H1937 H1938 H1939 H1940 H1941 H1942 H1943 H1944 H1945 H1946 H1947 H1948 H1949 H1950 H1951 H1952 H1953 H1954 H1955 H1956 H1957 H1958 H1959 H1960 H1961 H1962 H1963 H1964 H1965 H1966 H1967 H1968 H1969 H1970 H1971 H1972 H1973 H1974 H1975 H1976 H1977 H1978 H1979 H1980 H1981 H1982 H1983 H1984 H1985 H1986 H1987 H1988 H1989 H1990 H1991 H1992 H1993 H1994 H1995 H1996 H1997 H1998 H1999 H2000 H2001 H2002 H2003 H2004 H2005 H2006 H2007 H2008 H2009 H2010 H2011 H2012 H2013 H2014 H2015 H2016 H2017 H2018 H2019 H2020 H2021 H2022 H2023 H2024 H2025 H2026 H2027 H2028 H2029 H2030 H2031 H2032 H2033 H2034 H2035 H2036 H2037 H2038 H2039 H2040 H2041 H2042 H2043 H2044 H2045 H2046 H2047 H2048 H2049 H2050 H2051 H2052 H2053 H2054 H2055 H2056 H2057 H2058 H2059 H2060 H2061 H2062 H2063 H2064 H2065 H2066 H2067 H2068 H2069 H2070 H2071 H2072 H2073 H2074 H2075 H2076 H2077 H2078 H2079 H2080 H2081 H2082 H2083 H2084 H2085 H2086 H2087 H2088 H2089 H2090 H2091 H2092 H2093 H2094 H2095 H2096 H2097 H2098 H2099 H2100 H2101 H2102 H2103 H2104 H2105 H2106 H2107 H2108 H2109 H2110 H2111 H2112 H2113 H2114 H2115 H2116 H2117 H2118 H2119 H2120 H2121 H2122 H2123 H2124 H2125 H2126 H2127 H2128 H2129 H2130 H2131 H2132 H2133 H2134 H2135 H2136 H2137 H2138 H2139 H2140 H2141 H2142 H2143 H2144 H2145 H2146 H2147 H2148 H2149 H2150 H2151 H2152 H2153 H2154 H2155 H2156 H2157 H2158 H2159 H2160 H2161 H2162 H2163 H2164 H2165 H2166 H2167 H2168 H2169 H2170 H2171 H2172 H2173 H2174 H2175 H2176 H2177 H2178 H2179 H2180 H2181 H2182 H2183 H2184 H2185 H2186 H2187 H2188 H2189 H2190 H2191 H2192 H2193 H2194 H2195 H2196 H2197 H2198 H2199 H2200 H2201 H2202 H2203 H2204 H2205 H2206 H2207 H2208 H2209 H2210 H2211 H2212 H2213 H2214 H2215 H2216 H2217 H2218 H2219 H2220 H2221 H2222 H2223 H2224 H2225 H2226 H2227 H2228 H2229 H2230 H2231 H2232 H2233 H2234 H2235 H2236 H2237 H2238 H2239 H2240 H2241 H2242 H2243 H2244 H2245 H2246 H2
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Wideband Receive* Capability

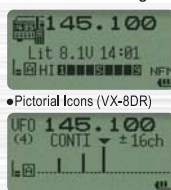
8DR/E 504 kHz - 999.900 MHz (A Band) Continuous reception for short-wave, FM/AM broadcasts, analog TV station audio, aircraft, public service channels, etc.

8GR/E 108 MHz - 999.900 MHz (A Band) In addition to Amateur Radio bands, aircraft, public service channels, etc.
*(USA Cellular blocked)

The large LCD display provides clear and easy-to-read indication

The large LCD Display shows everything needed for your advanced operations, including the main and sub band frequencies, operating mode and S-meters. A high-resolution Spectrum Analyzer with ± 50 channels indication permits wave monitoring of the received signal modulation! It is very easy to scroll through the set menu items to check the previous settings and make new selections as well.

*Audio scope can be displayed on the VX-8DR only.



Four independent durable buttons on the side, together with the front numeric keypad, afford easy and dependable operation!

In addition to the PTT and the MONI (Squelch OFF) buttons, the often used F (Function) and VOL keys, have been conveniently located on the side of the radio. Improved ergonomics and the simple function keys, allow quick versatile selections. The front numeric keypad buttons perform multiple functions by pushing the "F" (Function) Key on the side, or pressing and holding the key button.

Independent A and B Band Keys with TX/Busy Indication

The "A" and "B" band key buttons, on the left side of the large LCD display, will let you know your operating condition at a glance. You can change the operating band by pushing the desired band key. (VX-8DR only.)



A large non-slip rubber dial knob for dependable outdoor operation

Bluetooth® Capabilities (Optional Bluetooth unit required)

Install the optional Bluetooth® BU-1 Unit for Hands-free operation with the optional waterproof BH-1A (Stereo) or BH-2A (Monaural) Bluetooth® Headsets. Take your VX-8DR outdoors wherever you go, in your backpack, pocket or pouch, and enjoy total Hands-free operation with the built-in VOX function!



●Bluetooth® Unit BU-1

Optional GPS Operation

8DR/E The optional 12 channel GPS Receiver Antenna Unit (FGPS-2) provides GPS data. Your exact current position, moving speed, altitude, etc. may be displayed and transmitted on APRS. The FGPS-2 can be directly attached to the radio using the microphone input jack. Alternately the GPS antenna can be attached to the optional MH-74A7A speaker/microphone.



●The optional GPS Antenna Unit FGPS-2 attached to the optional Speaker/Microphone MH-74A7A

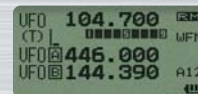
8GR/E Take full advantage of the VX-8GR GPS functions with its built-in GPS unit/antenna. (The optional GPS unit/antenna is not required.)



●Built-in GPS unit/antenna (The photo is for illustration only)

Dual Band AF DUAL monitor Function

You can listen to the AM or FM broadcast radio while monitoring two HAM frequency channels! When the radio receives a signal on either the "A" or the "B" Amateur Band, it will mute the FM/AM broadcast and switch operation to the Amateur Band that the VX-8DR is receiving.



Vibrate Alert Function when a message is received

Chose a Vibrate Pattern from three styles, to alert on message and bell ringer reception.

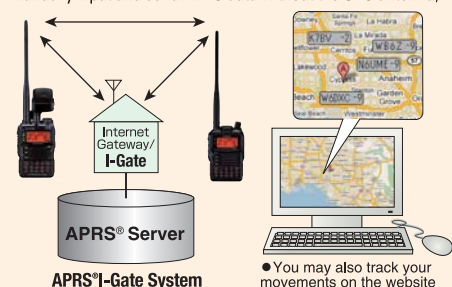


Many additional features to support active outdoor operations!

●CW Training feature, Emergency Automatic ID system and Emergency Strobe/Beep and Busy strobe LED functions ●Original (compatible with VX-3R/E and FTM-10R/SR series) messaging feature with your TX station ID (up to 16 characters x 20 different messages) ●Huge 1,830 ch (VX-8DR) / 1,327 ch (VX-8GR) memory channel management capability! ●Built-in CTCSS/DCS encode/decode enables selective call features for the A and the B Band individually. Enhanced Paging Code Squelch functions are available to place a call to an individual member of your group. ●Various timer functions ●Easy access to WiRES-II Internet Linking System with the WiRES-II Access DTMF memory function ●Useful and convenient battery saving features ●Yaesu's original "Auto-Range Transponding System" (ARTS) which provides audio and/or visual confirmation that another ARTS-equipped station is within communication range ●VOX function (VX-8DR) ●Built-in Barometric Pressure and Temperature Sensor (VX-8DR) ●Internal Bar Antenna for better AM Broadcast Band reception (VX-8DR) ●External Data Jack for other data communications (VX-8GR) ●Sub Band operating system (VX-8GR)

APRS® 1200/9600 bps data communication (B band only) using the worldwide standard AX25 Data TNC Modem

The built-in AX25 Data TNC Modem permits uncomplicated APRS® (Automatic Packet/Position Reporting System) operation. The VX-8DR/8GR supports APRS 1200/9600 bps data communication (B band only). You may communicate your location to other APRS stations with the position, speed and heading displayed on your radio! Your information may be transmitted to an Internet Gateway (I-Gate) and your movements reported on the Internet. The optional GPS Antenna Unit FGPS-2 provides you with real time APRS data. (You may also manually input and send APRS data without the GPS antenna)



APRS® Station Display

When you receive signals and information from other APRS® stations, the radio displays message positions, heading directions, message icons (46 kinds), weather information, object, etc.



●Position/Distance/Direction of the APRS® station picked up from the list

APRS® Station List function

The list function stores up to 50 stations.



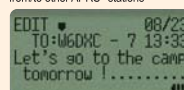
●APRS® Station List

APRS® Message Memories

The radio stores up to 30 messages automatically with the individual APRS® data, and you may recall them later!



●List of Incoming/Outgoing messages from/to other APRS® stations



●Display your message with up to 67 characters

Smart Beaconing™ Function:

When using APRS® for position tracking, the beacon timing is automatically adjusted to your traveling speed and location to plot a smoother trace to match your position and movement on a map.

DIGI-PATH route indication function:

The APRS® Packet data includes Digipeater routing info. The radio allows you to set up to 8/eight digipeaters for the APRS packet path.

More useful and helpful functions to enjoy your APRS® operation!

Easy to navigate RX/TX and Message List display Symbol Icon Preset Function - You can choose your favorite 4 preset station icons and rotate them with ease!

APRS® is a registered trademark of APRS Software and Bob Bruninga, WB4APR. SmartBeaconing™ from HamHUD Nicheltronix

OPTION						
8DR/E ONLY	 GPS Antenna Unit FGPS-2	 GPS Antenna Adapter for FGPS-2 CT-136	 Waterproof Speaker / Microphone MH-74A7A	 Microphone Adapter CT-131	 Cloning Cable CT-134	 Soft Case CSC-93
8GR/E ONLY	 VOX Headset VC-25	 Speaker / Microphone MH-34B4B	 Earpiece Microphone MH-37A4B	 Microphone Adapter CT-44	 Cloning Cable (2.5Φ-2.5Φ) CT-144	 Data Cable (2.5Φ- Dsub 9PIN) CT-143
SHARED	 3X"AA"Cell Battery Case FBA-39	 7.4 V, 1100 mAh Rechargeable Lithium Ion Battery Packs FNB-101LI*2	 7.4 V, 1800 mAh Rechargeable Lithium Ion Battery Packs FNB-102LI	 Rapid Charger CD-41	 Battery Charger*2 (5 hrs:FNB-101LI/8 hrs:FNB-102LI) NC-86B/C/U*1	 DC Cable w/ Cigar Adapter E-DC-5B
Bluetooth®	 Bluetooth® Adapter Unit BU-1	 Earphone (Stereo) for BH-1A Bluetooth® Headset FEP-4	 Bluetooth® Headset with stereo earphone jack (requires BU-1) BH-1A	 Bluetooth® Headset (requires BU-1) BH-2A	 3 hrs Charger Cradle for BH-1A/BH-2A CD-40	 Battery Charger for CD-40 NC-85B/C/U*1

*1 : B for 120 VAC / C for 220-240 VAC / U for 230 VAC-UK Plug *2 : As same as Supplied Accessory

□...8DR/E ONLY □...8GR/E ONLY □...SHARED □...Bluetooth® (8DR/E ONLY)

VX-8DR/E Specifications

GENERAL					
Frequency Ranges:	A (Main) Band RX: 0.5-1.8 MHz (AM Radio) 1.8-30 MHz (SW Band) 30-76 MHz (50 MHz HAM) 76-108 MHz (FM Radio) 108-137 MHz (Air Band) 137-174 MHz (144 MHz HAM) 174-222 MHz (VHF-TV) 222-420 MHz (General 1) 420-470 MHz (430 MHz HAM) 470-774 MHz (UHF-TV) 774-999.90 MHz (General 2, Cellular Blocked) B (Sub) Band RX: 30-76 MHz (50 MHz HAM) 108-137 MHz (Air Band) 137-174 MHz (144 MHz HAM) 174-222 MHz (VHF-TV) 222-420 MHz (General 1) 420-580 MHz (430 MHz HAM) TX: 50-54 MHz or 50-52 MHz 144-146 MHz or 144-148 MHz 222-225 MHz (USA version only) 430-440 MHz or 430-450 MHz				
Channel Steps*:	5/6.25/8.33/9/10/12.5/15/20/25/50/100 kHz				
Emission Type:	F1D, F2A, F2D, F3E, A3E				
Frequency Stability*:	±5 ppm -10 °C to +60 °C [-14 °F to +140 °F]				
Repeater Shift:	±600 kHz (144 MHz), ±1.6 MHz (222 MHz), ±1.6/5.0/7.6 MHz (430 MHz)				
Antenna Impedance*:	50 Ohms				
Supply Voltage*:	Nominal: 7.4 V DC (Negative Ground) Operating: 4-14 V DC (Negative Ground, EXT DC jack) Operating with Charging: 11-14 V DC (Negative Ground, EXT DC jack)				
Current Consumption: (@7.4 VDC, approx.)	200 mA (Mono Band Receive) 240 mA (Dual Band Receive) 85 mA (Mono Band Receive, Standby, Saver Off)	Operating Temperature*:-20 °C to +60 °C (+4 °F to +140 °F) Case Size (W x H x D): 60 x 95 x 24.2 mm (2.4" x 3.7" x 0.9") w/o knob & antenna Weight (Approx.): 240 g (8.5 oz) with FNB-101LI & antenna			
		TRANSMITTER			
		RF Power Output:	50/144/430 MHz 1.0 W (@4.5 V: AA x 3) 5.0 W (@7.4 V or EXT DC) 50 MHz AM 1.0 W (Fixed) 222 MHz (USA only) 0.5 W (@4.5 V: AA x 3) 1.5 W (@7.4 V or EXT DC) L3: 2.5 W, L2: 1 W, L1: 0.05 W (@7.4 V, 50/144/430 MHz) L3: 1 W, L2: 0.5 W, L1: 0.05 W (@7.4 V, 222 MHz) F2E, F3E: Variable Reactance A3E: Low Level Amplitude Modulation (50 MHz only) ±5 kHz (F2E/F3E)		
		Modulation Type:			
		Maximum Deviation*:	At least 60 dB below @ TX power H/L/L3		
		Spurious Emission:	At least 50 dB below @ TX power L2/L1/L2		
		Microphone Impedance*:	2 K Ohms		
		RECEIVER			
		Circuit Type:	NFM, AM/Double-Conversion Superhetrodyne WFM/Triple-Conversion Superhetrodyne AM/FM Radio/Single-Conversion Superhetrodyne		
		IF:	NFM, AM 1st: 47.25 MHz (A (Main) Band), 46.35 MHz (B (Sub) Band), 2nd: 450 kHz		
				WFM 1st: 45.8 MHz, 2nd: 10.7 MHz, 3rd: 1 MHz AM/FM Radio: 130 kHz	
				Sensitivity: (A (Main) Band)	3.0 µV for 10 dB S/N (0.5-30 MHz @AM) 0.35 µV (TYP) for 12 dB SINAD (30-54 MHz @NFM) 1.0 µV (TYP) for 12 dB SINAD (54-76 MHz @NFM) 1.0 µV (TYP) for 12 dB SINAD (54-59 MHz @NFM, USA Version) 1.5 µV (TYP) for 12 dB SINAD (76-108 MHz @WFM) 1.5 µV (TYP) for 12 dB SINAD (59-108 MHz @WFM) 1.5 µV (TYP) for 10 dB SN (108-137 MHz @AM) 0.2 µV for 12 dB SINAD (137-140 MHz @NFM) 0.16 µV for 12 dB SINAD (140-150 MHz @NFM) 0.2 µV for 12 dB SINAD (150-174 MHz @NFM) 1.0 µV for 12 dB SINAD (174-222 MHz @WFM) 0.5 µV for 12 dB SINAD (300-350 MHz @NFM) 0.2 µV for 12 dB SINAD (350-400 MHz @NFM) 0.18 µV for 12 dB SINAD (400-470 MHz @NFM) 1.5 µV for 12 dB SINAD (470-540 MHz @WFM) 3.0 µV (TYP) for 12 dB SINAD (540-800 MHz @WFM) 1.5 µV (TYP) for 12 dB SINAD (800-999.90 MHz @NFM) (Cellular Blocked)
				Sensitivity: (B (Sub) Band)	0.18 µV(TYP) for 12 dB SINAD (50-54 MHz @NFM) 0.18 µV for 12 dB SINAD (144-148 MHz @NFM) 0.2 µV for 12 dB SINAD (430-450 MHz @NFM)
				Selectivity:	12 kHz/35 kHz (-6dB/-60dB: NFM, AM) 200 kHz/300 kHz (-6dB/-20dB: WFM)
				AF Output:	200 mW @ 8 Ohms for 10 % THD (@ 7.4 V DC) 400 mW @ 8 Ohms for 10 % THD (@ 13.8 V DC)
					Specifications are subject to change without notice, and are guaranteed within the 50/144/222/430 MHz amateur bands only. Cellular Blocked per FCC rule Part 15.121, may not receive 900 MHz Amateur band. *The item of the sign is a common numerical value. (VX-8DR/E & VX-8GR/E)

VX-8GR/E Specifications

GENERAL					
Frequency Ranges:	A (Main) Band RX: 108-137 MHz (Air Band) 137-174 MHz (144 MHz HAM) 174-222 MHz (VHF Band) 222-420 MHz (General 1) 420-470 MHz (430 MHz HAM) 470-800 MHz (UHF Band, Cellular Blocked) 800-999.90 MHz (General 2, Cellular Blocked) B (Sub) Band RX: 108-137 MHz (Air Band) 137-174 MHz (144 MHz HAM) 174-222 MHz (VHF Band) 222-420 MHz (General 1) 420-470 MHz (430 MHz HAM) 470-580 MHz (UHF Band) TX: 144-146 MHz or 144-148 MHz 430-440 MHz or 430-450 MHz		95 mA (Mono Band Receive, Standby, Saver Off) 120 mA (Dual Band Receive, Standby, Saver Off) 35 mA (Mono Band Receive, Standby, Saver On "Save Ratio 1.5") 42 mA (Dual Band Receive, Standby, Saver On "Save Ratio 1.5") 2 mA (Auto Power Off) 1.7A (144 MHz, 5W TX) 1.9 A (430 MHz, 5W TX) Case Size (W x H x D): 60 x 95 x 28 mm (2.4" x 3.7" x 1.1") w/o knob & antenna Weight (Approx.): 250 g (8.8 oz) with FNB-101LI & antenna		Sensitivity: 1.5 µV (TYP) for 10 dB SN (108-137 MHz @AM) 0.2 µV for 12 dB SINAD (137-140 MHz @NFM) 0.16 µV for 12 dB SINAD (140-150 MHz @NFM) 0.2 µV for 12 dB SINAD (150-174 MHz @NFM) 1.0 µV for 12 dB SINAD (174-222 MHz @NFM) 0.5 µV for 12 dB SINAD (300-350 MHz @NFM) 0.2 µV for 12 dB SINAD (350-400 MHz @NFM) 0.18 µV for 12 dB SINAD (400-470 MHz @NFM) 1.5 µV for 12 dB SINAD (470-540 MHz @NFM) 3.0 µV (TYP) for 12 dB SINAD (540-800 MHz @NFM) 1.5 µV (TYP) for 12 dB SINAD (800-999.90 MHz @NFM) (Cellular Blocked)
Emission Type:	F1D, F2A, F2D, F3E		TRANSMITTER		Selectivity: 12 kHz/35 kHz (+6dB/-60dB: NFM, AM)
Repeater Shift:	+600 KHz (144 MHz), ±1.6/5.0/7.6 MHz (430 MHz)		RF Power Output:	1.0 W (@4.5 V: AA x 3) 5.0 W (@7.4 V or EXT DC) L3: 2.5 W, L2: 1 W, L1: 0.05 W (@7.4 V) F2E, F3E: Variable Reactance	AF Output: 200 mW @ 8 Ohms for 10 % THD (@ 7.4 V DC) 400 mW @ 8 Ohms for 10 % THD (@ 13.8 V DC)
Antenna Impedance:	50 Ohms		Modulation Type:		
Current Consumption:	200 mA (Mono Band Receive) (@7.4 VDC, approx.) 240 mA (Dual Band Receive)		Spurious Emission:	At least 60 dB below (@ TX power H/L/L3) At least 50 dB below (@ TX power L1/L2)	
			RECEIVER		Specifications are subject to change without notice, and are guaranteed within the 144/430 MHz amateur bands only.
			Circuit Type:	Double-Conversion Superhetrodyne	Cellular Blocked per FCC rule Part 15.121, may not receive 900 MHz Amateur band.
			IF:	1st: 47.25 MHz (A (Main) Band), 46.35 MHz (B (Sub) Band), 2nd: 450 kHz	

About this brochure: we have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time to equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized Yaesu Dealer for complete details.

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