

# ATEX Approved VX-800 EEx

 **Vertex Standard**

**VHF/UHF Portable Radios**

**200 channel 4 watts**

The VX-800EEx series of portables are unique high power Intrinsically Safe radios approved to the latest ATEX approval specifications. With a range of signalling and scanning capabilities the VX-800EEx is ideally suited to Public Safety, Emergency Services, Oil and Gas industry and any other area where explosive atmospheres may be encountered.



- Frequency range  
440-485MHz, 146-174MHz
- 200 channels
- 4 watts power output (0.5 to 4 watts)
- II 1 G, EEx ia IIC T4 with 5 Duracell batteries
- II 2 G, EEx ib IIC T3 with Nicad battery (FNB-V800EEx)
- 12.5kHz/25kHz switchable
- 8 character alphanumeric display (reversible)
- Definable scan modes
- BCLO, BTLO and TOT functions
- Programmable soft keys
- PC programmable
- Radio to Radio cloning
- Encryption/DTMF paging unit available
- Selective calling unit available



**ISO9002**



PERRY JOHNSON  
REGISTRARS, INC.  
Sukagawa Factory  
Yaesu Musen Co., Ltd.  
ISO9002 certification

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# VX-800 EEx

## VHF/UHF Portable Radios

### 200 channel 4 watts

## Specifications

General Specifications	VX-800 (VHF)	VX-800 (UHF)
Number of Channels	200 Channels	
Frequency Range	134-160MHz (A) 146-174MHz (C)	450-485MHz (D) 440-470MHz (CS) 400-430MHz (ASI)
Channel Spacing	12.5/25/30kHz (PLL Step 1.25/2.5/5/6.25 kHz)	12.5/25/30kHz (PLL Step 5/6.25 kHz)
Power Supply Voltage	7.2VDC	
Battery Life w/FNB-V800EEx (5-5-90 duty)	9hrs (12hrs w/saver) at 4W	9hrs (12hrs w/saver) at 4W
Ambient Temperature Range	-20°C to +55° C	
Frequency Stability	Better than ±2.5ppm	
RF Input-Output Impedance	50 Ohms	
Dimensions (W x H x D)	2.3" x 4.3" x 1.1" (58 x110 x28.9 mm) w/FNB-V800EEx	
Weight (approx.)	0.77 lbs. (352 grams) w/FNB-V800EEx, antenna, belt clip	

Receiver Specifications	Measurements made per ETSI ETS 300 086	
Circuit Type	Double Conversion Superheterodyne	
Sensitivity EIA 12-dB SINAD 20 dB Quieting	0.2µV 0.35µV	
Adjacent Channel Selectivity 25 kHz / 12.5 kHz channel spacing	75dB / 68dB	75dB / 65dB
Intermodulation 25 kHz / 12.5 kHz	75dB / 70dB	75dB / 68dB
Spurious & Image Rejection	75dB	
Audio Output	0.5W @ 16 Ohms, <3 % THD (BTL output)	

Transmitter Specifications	Measurements made per ETSI ETS 300 086	
Power Output	4.0, 0.5 W (Selectable)	
Modulation	Direct FM 16K0F3E / Direct FM 11K0F3E	
Conducted Spurious Emissions	70 dB Below Carrier	
Audio Distortion @ 1 kHz	<3 %	

Measurements per EIA standards unless noted above. Specifications subject to change without notice or obligation.  
ATEX approval certificate number LCIE 03 ATEX 6150 X  
II 1 G, EEx ia IIC T4 when used with 5 Duracell batteries type MN1500LR6 fitted to FBA-800EEx empty battery case  
II 2 G, EEx ib IIC T3 when used with FNB-800EEx Nicad battery pack

Military Standards 810C	Military Standards 810D/E	
Method 501.1, Procedure 1 & 2	Method 500 2/3, Procedure 2	Method 509.2/3, Procedure 1
Method 502.1, Procedure 1	Method 501.2/3, Procedure 1 & 2	Method 510.2/3, Procedure 1
Method 503.1, Procedure 1	Method 502.2/3, Procedure 1 & 2	Method 514.3/4, Procedure 1, Cat.10
Method 505.1, Procedure 1	Method 503.2/3, Procedure 1	Method 516.3/4, Procedure 1
Method 507.1, Procedure 2	Method 505.2/3, Procedure 1	Method 516.3/4, Procedure 4
Method 514.2, Procedure 8 & 10	Method 506.2/3, Procedure 1 & 2	
Method 516.2, Procedure 1 & 5	Method 507.2/3, Procedure 2	



## Accessories & Options

- FVP-25EEx Encryption/DTMF Pager Unit
- FNB-V800EEx 7.2 V 1100 mAh Ni-Cd Battery
- FBA-800EEx Alkaline Battery Case (LR 6x6)
- NC-77C Desktop Overnight Charger (240 VAC)  
(for FNB-V800EEx)
- VAC-6800 6 Unit Multi Charger  
(for FNB-V800EEx)
- VAC-800C Desktop Rapid Charger (240VAC)  
(for FNB-V800EEx)
- VCM-1 Mobile Mounting Bracket for VAC-800C
- MH-50A7AEEx Speaker/Microphone
- LCC-800 Leather Case (LCC-800S Swivel)
- LCC-800/TT Leather case w/keypad(LCC-800S/TT Swivel)
- CT-70 Radio Programming Cable (Requires VPL-1)
- CT-72 Radio to Radio Programming Cable

Various accessories listed may not be available in some countries.



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**YAESU UK LTD**  
Unit 12, Sun Valley Business Park  
Winnall Close  
Winchester  
Hampshire  
SO23 0LB  
UK

Fax: +44 (0)1962 856801 Tel: +44 (0)1962 866667