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DMR & Anloge Radios EX

UHF/VHF Digital Radio Transmitters

The new benchmark for energy efficiency

C&S c UL us c UL us CE IP67 WATERPROOF INTERCOM

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Main Features:

- HL-2100 EX hand held Radio VHF136-174MHz
  UHF400-470MHz band radio & Marine VHF/ UHF DMR
- Startup Password
- Definable Device Name (send the name at the end of calling)

Customized Startup Logo / Greetings
Voice Prompt
1024+2*VFO Channel, 250 Zones Supported
Talk Around and Reverse Frequency
High / Low Power Switching
TOT / VOX / Scanning/Monitor
Editable Channel Name
Timed Lock & Auto-lock
DTMF Setting (Analog Mode)

- Definalbe keys

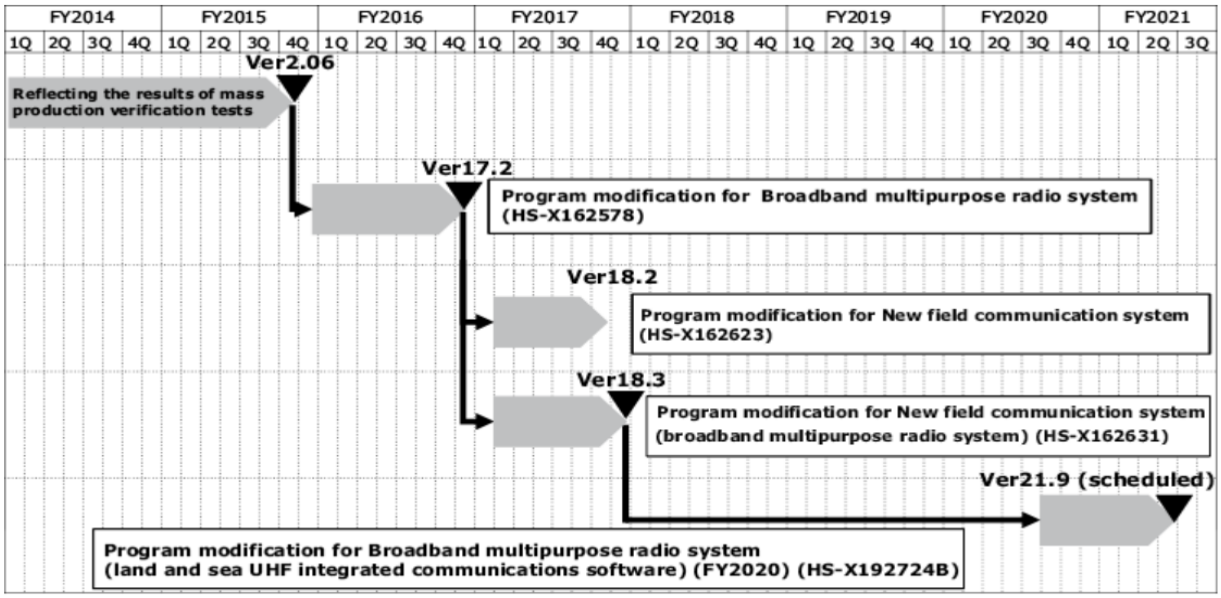
Dual Standby
One-click Privacy Decode (Analog Mode)
Local / Remote Alarm

DMR Functions:

2000 Digital Contact List
Receiving Group List
Groups Encryption(ARC / AES128 / 256)
SMS
Stun / Kill / Activation

- Remote Monitor

137×60×36 about 255g



IP67

II 2G Ex ib IIB T4 Gb
II 2D Ex ib IIIC T130°C Db

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Specifications:

Frequency Range	Analog Frequency: 136-174MHz 400-470MHz Digital Frequency: 136-174MHz 400-470MHz
Working voltage	7.4V DC±15 %
Working temperature	-20℃ ~ +60℃
Output power	1.5 W explosion-proof 5W Non
Channel storage	1024 Channels +2*VFO channels
Frequency Stability	±2.5ppm
Antenna Impedence	50 Ω
Channel spacing	Analog:25kHz/12.5kHz Digital:12.5K
Modulation Type	Analog: F3E Digital: 4FSK
Maximum Frequency Deviation	≤ 5KHz(W), ≤2.5KHz(N)
SNR（W/N）	-45dB/ -40dB
TX Current	≤1500mA
RF Modulation Sensitivity	
Modulation distortion	＜5%
Receiving Sensitivity	0.22μV/ 0.25μV 12dB SINAD
Audio Power	1 W
Audio distortion	＜5%
Inter modulation（W/N）	65dB/ 60dB
RX Current	≤350mA
Standby current	≤70mA
Battery Capacity	2000mAh Explosion-proof

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Original Part No.	NEC HL-2100 Battery
Capacity	2000 mAh
Chemistry	Li-ion
Material	PVC+ABS
Voltage	7.2V
Rating	13Whr
Weight	180g (appr.)
Warranty	6 months
Compatible Model No.	for Portable NEC HL-2100 UHF or VHF

The **NEC HL-2100** is UL-approved according to TIA-4950 and can be used in Division 1, Class I, II, III, Groups C, D, E, F, G; Division 2, Class 1, Groups A, B, C, D hazardous environments when properly used with **NEC HL-2100** UL-approved batteries. While IIB T4 is sufficient for general explosion-proof environments, IIC T4 is required for extremely hazardous environments like hydrogen or acetylene

II 2G Ex ib IIB T4 Gb
II 2D Ex ib IIIC T130°C Db

Equipping Broadband Multipurpose Radio System

Japan's Ministry of Defense invited the public to apply for the prototype project of the broadband multipurpose radio system. As a result,
NEC, after already passingd the SCA compliance test in the Japan-U.S. joint research project, was awarded the contract for this prototype project.

We delivered the first prototype in 2009, the second prototype in 2010, and the third prototype in 2011, and after technical and practical tests were conducted by Japan's Ministry of Defense, we were able to start mass production in 2013

There are three types of broadband multipurpose radio systems in the series: one that can be mounted on motor vehicles, one that can be mounted on aircraft, and two different models of a portable one: a manpack(Type I) carried on one's back and a handheld one

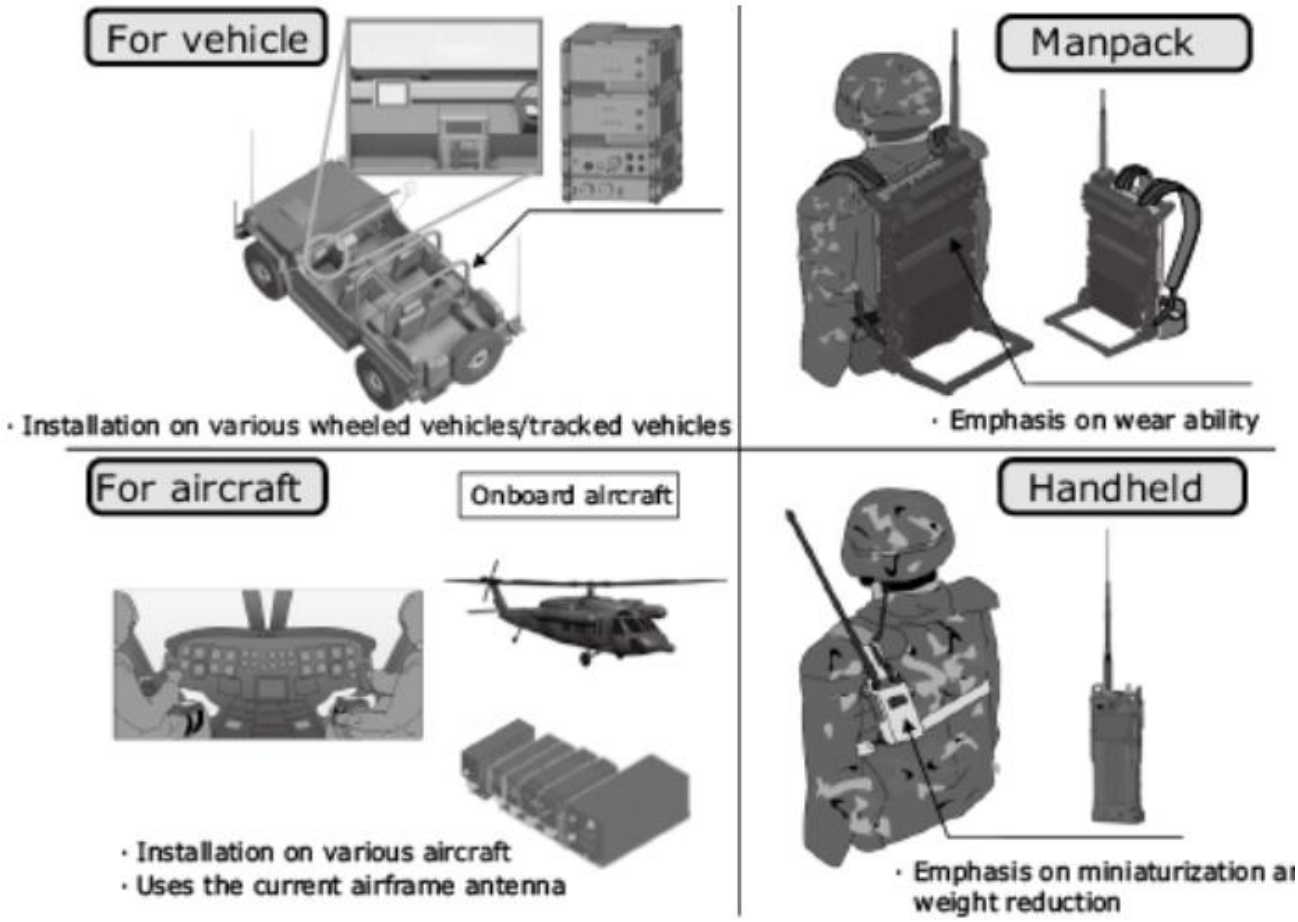

Fig. 4 Types of broadband multipurpose radio systems.