



DPH Digital Portable Radio Specifications

DPHX5102X

INCLUDED

- Dual Priority Scan
- TalkBack Scan
- Nuisance Channel Delete
- Transmit Time-Out Timer
- Soft Switch Programming
- Tone Code Guard (CTCSS)
- Digital Code Guard (CDCSS)
- Network Access Codes
- DTMF Encode
- DTMF ANI
- Talk Group IDs
- Streamlined Unit-to-Unit Calling
- Programmable Unit-to-Unit Call-Back
- Emergency Transmission Mode
- SIGNAL DETECTION:**
- RX - Automatic Digital/Analog
- TX - Automatic Digital/Analog
- TX - Selectable Digital/Analog

OPTIONAL

- DES Digital Encryption
- AES Enhanced Digital Encryption
- Over-the-Air Encryption Re-keying



Sustaining Member



GENERAL SPECIFICATIONS

Channels	400
Selectable Code Guards	Up to 400 (16 per group)
Selectable Network Access Codes	Up to 400 (16 per group)
Operating Voltage	10 V. NOM.
Operating Temperature	-30 to 60 °C
Current Drain	Standby 20 mA
	Receive 255 mA
	Transmit 1.5 A
Stability	+/- 2.5 PPM
Channel Increments	5.0/6.25/7.5 kHz
Operating Frequency Spread	136 - 174 MHz
Channel Spacing	25/30 and 12.5/15 kHz
Size - W x D x H	
(Standard Battery)	2.55 x 1.5 x 6.6 in.
Weight	20 oz. (Standard Battery)
Antenna	Helical Wound, Molded Rubber Flex
FCC Type Acceptance	K95DPHX51 Parts 22, 74, 90

TRANSMITTER

RF Power Output	2/5 Watts
Spurious and Harmonics	60 dB
Hum and Noise	50 dB
Audio Distortion	3%
Audio Response	+1/-3 dB
Modulation	16K0F3E, 11K0F3E
	8K10F1D, 8K10F1E

RECEIVER

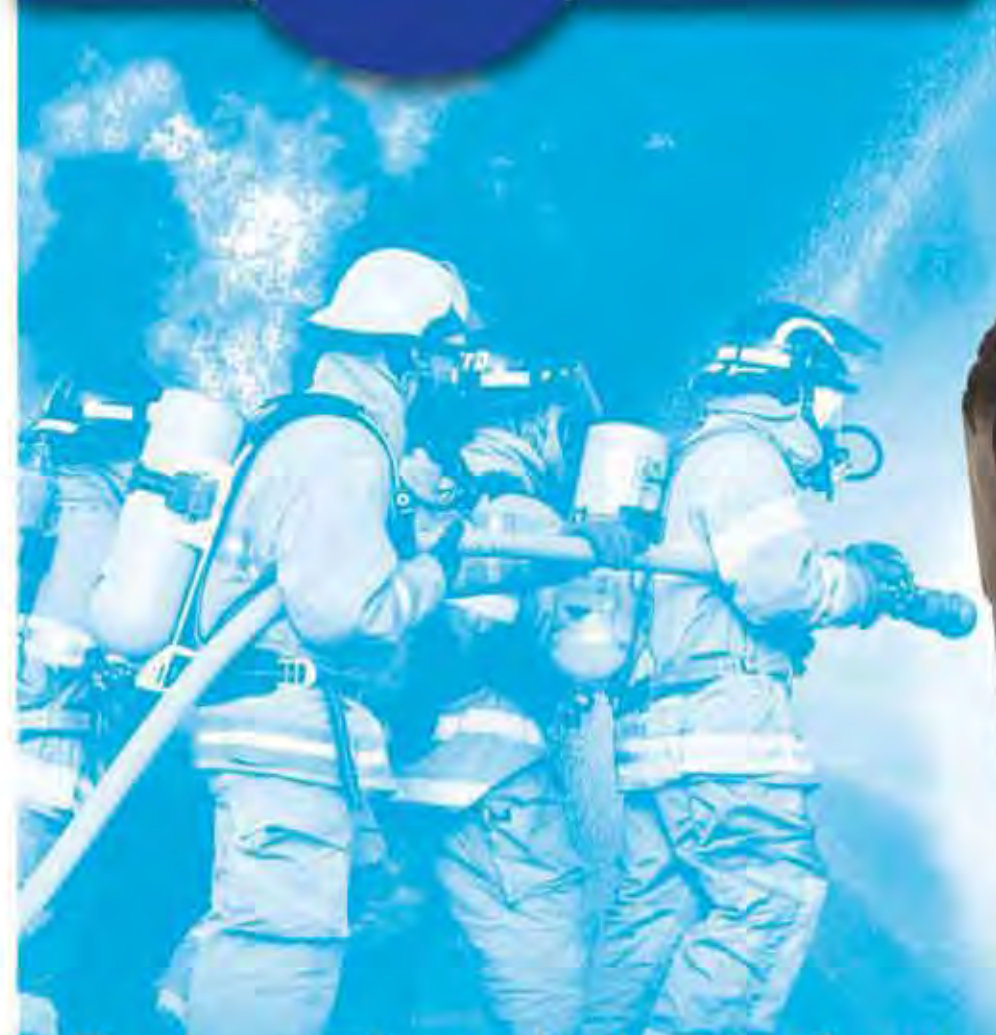
Sensitivity: 12 dB SINAD	-119 dBm
Selectivity	72 dB (wide) / 60 dB (narrow)
Spurious including Image	75 dB
Intermodulation	70 dB
Audio Output @ 5% Distortion	500 mW
Audio Response	+1/-3 dB
Audio Input Load	8 Ohms

Specifications subject to change without notice. Measurements made in accordance with applicable TIA/EIA-603-A and TIA/EIA 102CAA standards.

Making reliable communications affordable

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DPH Digital Portable



The best value in high-specification P25 digital portable radios



Making reliable communications affordable





The best value in high-specification P25 digital portable radios

- 400 channels, 25 user groups, 16 channels per group
- Programmable for digital, analog, or mixed-mode operation, with automatic mode detection and talkback
- 136-174 MHz frequency range
- 5 watts RF power output
- User-selectable network access codes and/or code guards
- Optional DES/AES digital encryption
- Rock-solid reliability – meets tough MIL-STD and NIFC fire certification specs
- Multi-level password-protected field- and computer-programming options



- Meets or exceeds APCO P25 specifications, including interoperability
- Easy to use, easy to program and customize
- Longer life between battery charges/changes – over 18 hours with new high-capacity lithium-ion battery
- Exceptional audio quality and clarity
- Weatherproof design
- Cloning technology transfers information from one radio to another automatically
- FLASH technology enables future enhancements via software instead of hardware changes
- Instant access via unit-to-unit Quick Call and Automatic Call Back

On the leading edge of radio design, the BK Radio D Series digital portable is one of the first and few to incorporate technology that meets or exceeds the specifications and requirements of the public safety radio standard known as APCO Project 25 (P25). This includes interoperability with all manufacturers' radios also in compliance with strict P25 specifications.

Its next-generation design means that functions and features are software-driven, which enables built-in versatility, flexibility, intelligence, and the potential for future enhancements along with inherent efficiencies that result in significant cost savings without compromising or sacrificing quality, performance, reliability, or durability even under the most demanding conditions.

Windows-based programming is focused on the practical needs and requirement of the radio user. Despite a wide variety of options, the BK/Radio DPH portables are always easy to use – a critically important factor in emergency conditions.

Programming steps are simple – no matter how sophisticated the end result – so that all DPH units are especially easy to customize to the user's specific situation and requirements.

As a result of advanced engineering techniques, D Series radios have the lowest current drain of any P25 digital portable radio available today, which means significantly longer battery life between charges or changes. And with the new high-capacity lithium-ion battery, service cycles are extended to more than 18 hours.

All 400 channels can be programmed for digital operation, analog operation, or both. Frequencies programmed for mixed-mode operation recognize the format of a received signal and automatically transmit in the same format.

The D Series radio also has the ability to clone group information to or from other BK Radio models; the GPH, GMH, EPH and LPH.

Additional economies are realized by using the accessories you already have for other BK Radio units such as antennas, microphones, batteries, cloning and programming cables, and carrying cases.

