

JVCKENWOOD Corporation

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Celebrating the 10th anniversary of the introduction of the NEXEDGE® Series of digital two-way radio systems



JVCKENWOOD Corporation is proud to announce the 10th anniversary of the introduction of the KENWOOD-brand NEXEDGE Series of professional digital two-way radios. To mark this occasion a white paper on the NEXEDGE Series is being issued.

• Outstanding benefits of the NEXEDGE Series

The NEXEDGE Series employs NXDN™, a future-proof narrowband protocol employing 6.25/12.5 kHz FDMA technology and offering significant advantages. For example, 6.25 kHz dual-channel systems can be configured to fit within a 12.5 kHz channel, effectively doubling spectrum efficiency compared to an analog FM system. It also provides wider coverage and superior multipath characteristics. Yet at the same time NXDN systems support mixed digital/analog operation, thus facilitating smooth migration to a narrowband digital system. With these and other benefits such as clear voice quality, low noise and strong security, NEXEDGE has established an enviable reputation for high performance and reliability among public safety professionals and commercial users around the world.

• Enhanced scalability offered by NEXEDGE Gen2

Since its introduction, NEXEDGE has offered digital conventional and trunked radio network system solutions to meet the diverse requirements of a wide range of users. And 2015 saw the debut of Gen2, the second generation of NEXEDGE products, with enhanced features, flexibility and performance – including the capability of linking up to 1,000 sites or 24 networks. Commercial utilities and railroad companies are among the many industry users to benefit from such powerful statewide/nationwide connectivity.

• NXDN protocol recognized as international standard by ITU

In 2017 the NXDN Common Air Interface (CAI) was accepted by the International Telecommunications Union in its Radiocommunications Sector (ITU-R) report M.2014. This represented official recognition of NXDN as an international standard, a protocol offering exceptional spectrum efficiency that paves the way for even wider adoption on a global scale.

• Expanded lineup offering multi-protocol support

Markets evolve and so does the NEXEDGE Series, anticipating new user requirements with expanded functionality. The new multi-protocol models, for example, provide support for DMR and P25 protocols in addition to NXDN. These make it even easier for users of legacy systems to make a future-proof investment in NEXEDGE radios that allows them to migrate to a digital system at their own pace – even if they are still undecided about which digital system to pick.

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