



Using Fixed Mount DVRS to Extend Public Safety Coverage into Schools and Universities



Customer Profile

Users

Public Safety Personnel, including police, school security and fire. School Administration.

Applications

Public safety radio coverage throughout elementary schools, high schools and university campuses.

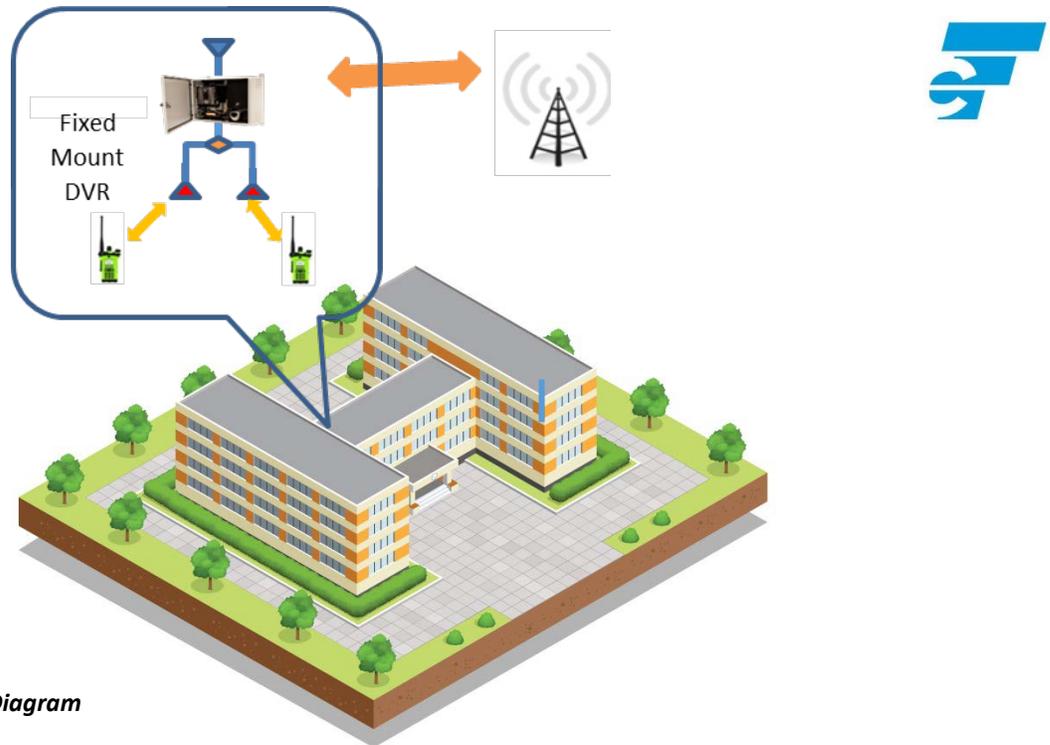
Educational facilities can be a challenging environment for public

safety radio coverage. Green building standards for new build construction and older buildings with reinforced concrete makes communicating on portable two-way radios a challenge as their transmit power may not be sufficient to overcome the environmental factors. Ensuring radio coverage for those stationed at the facility as well as others responding to an incident is a key priority for many public safety agencies.

A fixed mount DVRS (FDVR) can provide a simpler and inexpensive alternative to a DAS (distributed antenna system).

For one school they had three different requirements for a radio system: local repeater coverage for use by school staff such as maintenance and security; a coverage enhancer for public safety; and a communications system for times of disaster relief.

For regular day-to-day operations, the Futurecom FDVR is configured to operate in its “Local” Mode providing an in-building communications system. Maintenance, security and administrative staff communications are usually confined to the school area. They have little need to access the trunking system and only require conventional portable radios. They may, however, need to access the trunked system in the event of an emergency situation.



General Overview Diagram

Trunked system access can be accomplished by selecting a pre-programmed Mode (selection is performed on the portable radio) giving them access to an emergency talk group (such as police or EMS dispatch) or by pressing the emergency button. When any of these conditions is detected by the FDVR it will automatically switch into its "System" Mode of operation. This allows the staff radio user to quickly communicate through the FDVR site into the trunked network infrastructure while still communicating locally in the school area.

Public safety units, such as Police, Fire or EMS, can do the same, selecting the appropriate mode in their portable radios upon arrival at the school will give them in-building coverage on the appropriate home talk group.

During times of disaster, schools become community refuges. The in-building communications system allows emergency workers to communicate from inside the building to the outside trunking network. In the event that the trunking system becomes unavailable, the FDVR trunked-mobile can be steered to an emergency (backup) conventional channel or simply used as an on-scene repeater.

School districts and public safety agencies looking for an alternate communication solution at school facilities can look at the FDVR solution as a vital asset in their radio communications arsenal.

The DVRS is also available in a transportable format to maximize flexibility.

To learn more about the Futurecom P25 DVRS product line please visit www.futurecom.com

