



BlueBridge® Installation

MEI School - Abbotsford, British Columbia, Canada

MEI School in Abbotsford, BC, Canada recently completed an audio upgrade in their gymnasium. This type of installation can be difficult to get accurate acoustics due to the hard surfaces that reflect sound and seating sections on opposite sides that need coverage.

The existing audio system was installed years ago and comprised of four cabinet style speakers, one in each corner, that did not deliver intelligibility to any section of the gym. Additional speakers had also been added in the past to better cover the upper bleachers, but these were placed on the walls beside the seating area and did not help with intelligibility. The coaches and teachers did not find the existing system user friendly as the mixing board, volume controls, and other components were located in a room upstairs from the gym.



The new system design approach was simple, provide a system that anyone could easily use and ensure that spectators in the bleachers could clearly understand both dialog and music. Since many different events are held in the space, the system had to work with few or hundreds of people in the audience. It had to work for sporting events, assemblies, and other miscellaneous events. The school also wanted to be able to use the system on a single side, both sides, and/or in the upper bleachers.



The new system includes an Atlas Sound BlueBridge® TSD-BB44 DSP matrix at the heart, providing four inputs (iPod, 2 cordless mics and XLR for allowing a larger mixing board for bigger productions), and four zoned outputs. The four zoned outputs allow them to turn off any speakers not needed for that particular function, the upper bleachers or the floor fill for example. Volume and zone control are handled with two BlueBridge® wall controllers placed on the gym wall where they can be easily accessed without leaving the gym area.

The speakers chosen were Atlas Sound SM12CXT's, covering the two main set of bleachers and for floor fill, and Atlas Sound SM82T's, covering the upper bleachers. The speakers are all powered by Atlas Sound CP700 two-channel amplifiers.

All the amplifiers and the matrix are housed in an Atlas Sound rack with power conditioning/protection. Custom speaker mounting brackets were manufactured locally to mount the speakers to the concrete truss system above the ceiling tile of the gym.

Installation was completed in five days by the Abbotsford Future Shop Connect-Pro team of Steve and Yip.



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Product List

Quantity	Model	Description
1	TSD-BB44	4 Input / 4 Output BlueBridge® DSP Audio Processor
1	BBWP-K4W	BlueBridge® DSP Controller with 4-Button Controller and Level Control
1	BBWP-S4W	BlueBridge® DSP Controller with 4-Button Controller
10	SM12CXT-W	12" 70.7V Compression Driver Coaxial Speaker
4	SM82T-WH	8" 2-Way Weather Resistant 70.7V Speaker System
2	AP-S15	15A Power Conditioner
1	TSD-RMK	Rack Mount Kit for TSD Series Products
1	221-25	Stand-Alone Floor Rack with Fixed Rails 18.5" Depth, 21RU

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