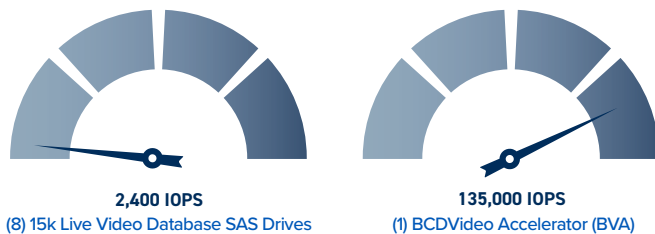


BCDVIDEO ACCELERATOR (BVA)

High Throughput Storage Accelerator for Milestone Systems



Input/Output Operations per Second (IOPS)



The **BCDVideo Accelerator (BVA)** is a purpose-built, state-of-the-art storage accelerator for Milestone Appliances. With enterprise hardware, the BVA allows for dramatically increased storage scalability, performance, and reliability.

Tested extensively in BCD's Innovation Lab on a 1GbE network, the BVA is easily able to sustain 700 Mbps of throughput. When an upgrade to a 10GbE network kit is included, throughput surpasses 2.2Gbps. Traditionally, to reach 700 Mbps of throughput, a system would need to have (8) 15K SAS, and to achieve 2.2 Gbps, multiple systems would have to be used, each adding to the total cost.

When a system is built with the BCDVideo Accelerator, many areas of performance overhead are removed. Total disk I/O bandwidth often limits the capacity to write live video while reading video to archive. Milestone Appliances utilizing the BVA are able to standardize archiving video every two hours as a best practice without negatively impacting the live video database's performance.

With the BVA, for the total storage of each system can be fully leveraged, compared to traditional configurations using live drives. A BCD218 with the BVA can fully achieve its 288TB with SATA/SAS storage. This allows for security deployments to be fulfilled with fewer servers, while significantly reducing both the initial cost of hardware, as well as the operating expenses.

KEY BENEFITS

High Intensity Read / Write Capability:

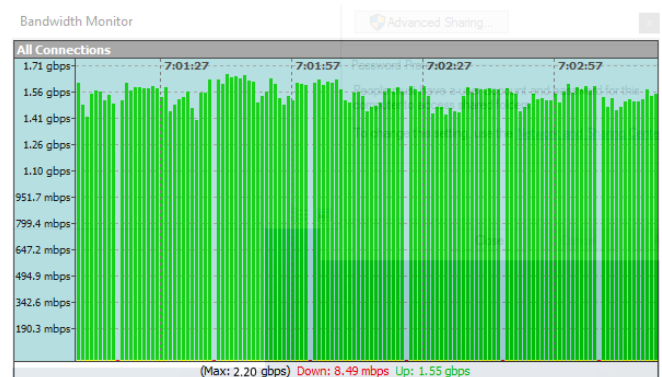
One BVA operates at 135,000 IOPS, significantly outperforming a system with 8 live drives at 2,400 IOPS total. Data speeds exceed 2,500 MB/s, allowing for continuous read and write of video data.

Greater Storage Scalability:

With a BVA, the need for live drives is eliminated. With an onboard 1.6TB non-volatile cache, live video can be stored and processed for archive. Without the need for live video drives, fully utilize the storage capacity of a Milestone appliance.

Maximum Endurance and Reliability:

The BVA is built with high endurance and a 24/7 duty cycle in mind. With endurance rated at 8.76PB written, equaling 4.8TB written per day, for five years, the reliability of the BVA is second to none.



Results from internal BCD testing, displaying a maximum of 2.2gbps with an average of 1.66gbps