

Z-CLV

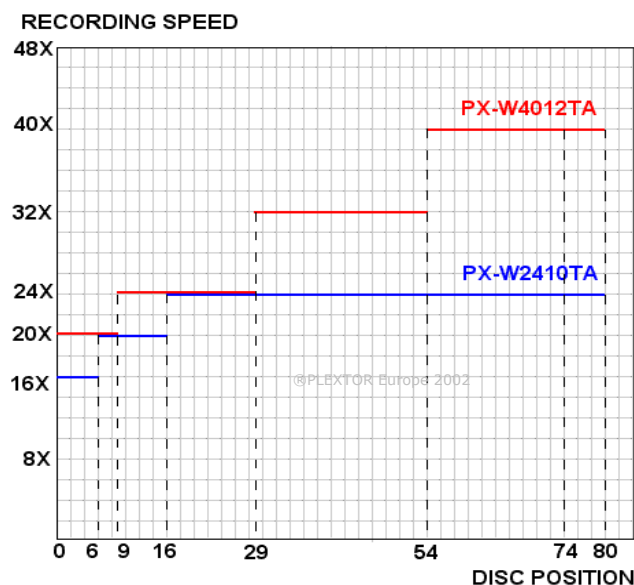
Definition :

Zone CLV technology divides the recordable area of a disc into separate speed zones. In each zone, recording is performed at a Constant Linear Velocity speed with optimized precision. As soon as the spindle motor's maximum RPM limit allows, the drive will switch to the next speed zone by resetting the rotation speed to the beginning speed.

The write strategy and laser power value for each zone are the same as those that are used for normal CLV at the same speed.

How Does Zone CLV Work?

The recording is started at the beginning of the disc at a constant speed in the first zone. After a pre-defined time (when the next zone starts) a switch is made to a higher speed. At the switching point, BURN-Proof technology is used to assure a fast, reliable transition with no loss of data. At the same time, Plextor's unique PowerRec technology will safeguard the write quality.



Plextor's Expertise :

Recording stability is the most important aspect of high-precision recording at high speed. In comparison to P-CAV recording, Zone CLV clearly has the advantage of better recording quality: stable data recording is extremely important and determines the readability of the disc. This is much easier to achieve in Constant Linear Velocity systems, as opposed to CAV (where the write speed is constantly adjusted).

Until recently, Plextor opted for Z-CLV technology as the best compromise of quality over speed. The newest generations of components and technologies allow equal quality and performance to be achieved in CAV systems.