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The Hi-Motion II might look like what you expect a typical HD broadcast camera to be, but it has some serious tech packed inside.

That includes three CMOS sensors, 96GB of storage, and the ability to record from 24 to 1000 frames per seconds, with controls that allow for 1 fps increments between those rates. The camera records at 1080 60i (what NBC will use this year) or 50i as well as 720p. And for the operator's benefit it is outfitted with a 9-inch viewfinder that is used for tracking the event.



The Hi-Motion II might be capable of recording up to 1000 frames per second, but that doesn't necessarily mean that a) it can do so for any reasonable length of time, b) it can do so at Super Bowl, or broadcast, quality and c) it can record at the resolution necessary for television use. Scaling down the frame rate helps with this — NAC literature mentions that the camera's recording time at "300fps Full Mode" is 38 seconds. That's more than enough for a football play and assuming "Full Mode" means reasonable video quality these cameras should be a big hit on Sunday. The CMOS sensors they use are high sensitivity so the degradation and loss of light that comes with high frame rates should be minimized.

the company noted that the camera is capable of "10X high speed images in Full HD" which isn't very specific. NAC . For the Super Bowl the Hi-Motion II cameras will in fact operate at 300 frames per second, which "works well on football, allowing replays of a usable duration in the match coverage but also showing so much more detail than a regular replay."

According to a statement by NAC, the technical rehearsals have gone swimmingly.

As an added perk the Hi-Motion II can do simultaneous output of a live video feed and slow motion replay. So slow motion will be available without an interruption to the action that is ongoing.

Wondering what other gear is recording the Super Bowl this year? NAC told us that "The four NAC Hi-Motion II cameras are the only Ultramotion cameras, [but] there are a multitude of other normal speed cameras and Super-Slo-Mo (triple speed) cameras." We're told that in addition the to four Hi-Motion IIs NBC will have 40 match cameras recording the game.