

Phantom Flex

The Phantom Flex is a 2.5K cinema camera providing exceptional flexibility in all areas of high-speed image capture. Depending on the shooting mode and resolution, the Flex is capable of shooting from 5 frames-per-second (fps) to over 10,750 fps.

The Phantom Flex offers two user-selectable shooting modes, each adapted to a particular shooting environment. In Standard Mode, the Phantom Flex is just like any other Phantom digital high-speed camera. Shoot at resolutions up to 2560x1600 pixels at anywhere from 10 frames-per-second up to 1,455 frames-per-second (fps). Maximum speed increases as the resolution decreases – up to 2,570 fps at 1920x1080, 5,350 fps at 1280x720, and 10,750 fps at 640x480.

In Phantom HQ Mode, Vision Research's proprietary image enhancement technology results in electronic image stability for stable blacks, low noise, higher dynamic range, and repeatable shots at all settings without the need for pre-shot black references. Maximum frame rates in HQ mode are about half those in Standard mode, which means that in HQ Mode Flex captures images at speeds up to 1,275 fps at 1920x1080 or 2,640 fps at 1280x720. The Phantom Flex supports multiple workflows: a raw digital workflow, a video workflow, or combination of both for maximum control and flexibility.

With a video workflow, the Flex offers a video signal on the dual-link HD-SDI ports independent of the camera resolution. Set the resolution to 2560x1440 (16:9), and the camera will automatically scale the oversampled image when rendering the video signal. This technique increases the dynamic range and decreases noise in the video signal.

The Phantom Flex accepts a wide range of industry standard lenses. 35mm (PL, Canon EOS, Nikon F), Super16m and 2/3" lenses are all compatible.

Key Features

- Up to 2,570 fps at 1920x1080 in Standard Mode
- 12-bit pixel depth
- ISO (ISO-12232 SAT method): 1,000 T Color
- HQ Mode provides the ultimate in image stability under changing shooting conditions
- Phantom CineMag & CineMag II compatible, CineMag interface has field-replaceable pin array
- 2 x 4:2:2 HD-SDI video ports, can be configured as dual-link 4:4:4 video (4:4:4 not available at 60fps video formats)
- Global, electronic shutter to 1 μ s (shutter angles in HQ mode dependent upon frame rate and resolution)
- Multi-cine capable via segmented memory
- Internal mechanical shutter for hands-free and remote Current Session References
- On-camera controls for camera modes, settings, playback, edit & save
- Frame synchronization to external signal, allows multiple cameras to be synchronized – essential for stereo 3D recording
- Three 12VDC, 1.5A auxiliary power outputs for powering external devices (one is on the Viewfinder port), 4A maximum load
- External trigger signal on camera connector panel and both 12VDC power ports
- Genlock for synchronizing video playback – essential for 3D video workflows

