

signum.PrimeVision

Super High Speed CMOS Camera

signum.PrimeVision is the new standard in image quality of high-speed cameras with 1080p resolution and more. The **signum.PrimeVision** achieves this extraordinary ability to record images with extremely high color fidelity at record speeds.

The **signum.PrimeVision** uses sophisticated techniques to achieve superior color quality and therefore has been recommended by experts in the field of broadcast cameramen, and research centers. This quality is achieved even at highest speeds to create videos in super slow motion speeds as standard broadcast (such as 50 or 60 fps for 1080p HDTV).

The latest CMOS sensor generation which was developed in high-tech laboratories in Germany are in combination with proprietary algorithms that achieve the colors which are very natural in the visible spectrum.

The sensitivity to light has been unparalleled and

allows satisfactory recordings even under difficult lighting conditions.

The internal RAM is available in three options, 9GB, 18GB and 36GB both for maximum flexibility in the length of recording to have extra-long recording times.

The precise timing of this camera with very low "jitter" of only 50 ns make the **signum.PrimeVision** the ideal camera for recording stereo and 3D movies or motion analysis in 3D space.

The **signum.PrimeVision** software comes with a camera control, image acquisition and option to save recordings in different formats of images / videos. A software development kit (SDK) including a dynamic link library on 32 and 64 bits allows the customization of the control of the camera for specific requirements. Advanced algorithms settings colors complement the software.

Accessories such as batteries, lenses, bag, etc. are available to complement the system.



SPECIFICATIONS

- ◆ CMOS Sensor
- ◆ Pixel size: 11µm x 11 µm
- ◆ Max resolution
 - 2016x2016 (full option)
 - 1920x1440 (HD+ option)
 - 1920x1080 (HD option)
- ◆ Camera Speed
 - 1,279fps @ 2mpx
 - 2,100fps @1080p
 - 4,300fps @720p
- ◆ Internal RAM
 - 9 GB
 - 18 GB
 - 36 GB
- ◆ Data Interface:
 - GbEth
 - HD-SDI
 - CamLink-HS
- ◆ IRIG B timecode
- ◆ Master/Slave for synchronization
- ◆ Battery operation: > 50 min
- ◆ Optical interface: F-mount (std) / C-mount (adaptor)
- ◆ Weight 7 kg
- ◆ Ambient temperature +5°C ... + 40°C

FEATURES

- ◆ Super High-Speed camera
- ◆ Split of internal RAM for multiple recordings
- ◆ Low light performance
- ◆ CDI (correlated double image)
- ◆ Synchronized camera setup
- ◆ Global shutter
- ◆ Increased frame rate at lower resolutions

APPLICATIONS

2D and 3D Motion Analysis

The **signum**.PrimeVision is mainly used in combination with **signum**.VisionFactory and **signum**.HSA for the analysis of fast movements in Super Slow-Motion. The highest sensor quality and the high sensitivity are

building the key component for this integrated solution. Its applications are mainly for Sports Analysis. To add additional value to the cameras, the recorded videos used for analysis may also be used for playback in order to enhance the Analysis data



Super Slow Motion

In case used for Super Slow Motion playback, **signum**.VisionFactory is offering a large number of extra features, such as TimeWarp, Playlist creation,

Timecode management, storage of large amount of recordings and many more.

