

FILMscreen HS™

MAKE YOUR DREAMS COME THRU

a product for MOVIEtube™

FILMscreen HS

KINOMATIK introduces the new FILMscreen HS (High Speed). After intensive research KINOMATIK have improved and designed a faster film screen, which is at the heart of the MOVIEtube system. This next generation of the legendary FILMscreen is now available to enhance your film look in the MOVIEtube system.

MOVIEtube already has a reputation as the world's first static 35mm intermediate camera system for video.

The new patented FILMscreen HS features high light transmission and superb detail and resolution, making the MOVIEtube system suitable for an even wider range of shooting situations and environments.

The only difference with the MOVIEtube HS is this new screen, all of the other major attributes remain the same, S35mm Gate (18mm x 24mm), upright image, filmic video image, 35mm Depth of Field (DoF), and available in LT or ST models.

In short the new FILMscreen HS is the key player for shooting low cost HD or SD video with a real film look.



FILMscreen HS, Sony HDR FX1, Shutter 1/50, 0dB, Lens Canon FD 85mm, F2.8



FILMscreen, Sony HDR FX1, Shutter 1/50, 0dB, Lens Canon FD 85mm, F1.2



FILMscreen HS, Sony HDR FX1, Shutter 1/50, 0dB, Lens Canon FD 85mm, F1.2



FILMscreen, Sony HDR FX1, Shutter 1/50, 0dB, Lens Canon FD 85mm, F1.2

Static Screen Technology (SST)

The MOVIEtube camera system uses a patented static screen technology (SST). SST means that the FILMscreen, due to its microcrystalline technology, does not need to rotate or shake. This allows it to function without any electronic power supply (power on the ST model is for the viewfinder and breakout box only). Furthermore, it provides a crystal clear image without any artifacts, degradation or flicker. Now, the latest generation of the FILMscreen, the FILMscreen HS, is available. This screen enables greater light transmission and has improved detail sharpness for high definition video.

Benefits of the FILMscreen HS with SST technology:

- High light transmission
- Superb detail resolution
- Produces a video image with shallow depth of field.
- It adds a filmic smoothness to the clinical video look
- Realistic filmic Bokeh*
- Use ultra wide angle lenses with no hotspot or dark corners
- Progressive jitter is reduced drastically
- Silent Operation
- No adverse effects with variable frame rates, fast shutter and camera moves such as panning
- Pure optical solution- no sensitive moving mechanical parts
- Always ready

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a product by
KINOMATIK
technology for motion pictures

MOVIEtube



35mm digital video camera system

Innovationspreis des Deutschen Films 2005

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FILMscreen vs. FILMscreen HS

Both the FILMscreen and FILMscreen HS are built into the MOVIEtube LT/ST models, the chart below shows comparisons of their different sensitivity. The focal length of the recording docking camera was untouched and left at $f=24\text{mm}$. The measurements are taken with three film lenses at different f-stops: one at F1.2, one at F1.4 and one at F2.0.

	MOVIEtube LT/ST	MOVIEtube LT/ST	MOVIEtube LT/ST
taking Filmlens	F1.2	F1.4	F2.0
Light loss of FILMscreen HS (f-stop)	+ 0,5	0	-1
Light loss of FILMscreen (f-stop)	-2	-2,5	-3,5
Difference (f-stop)	2,5	2,5	2,5

The table shows that the sensitivity of the FILMscreen HS compared to the classic FILMscreen, is as much as 2.5 stops greater. In practice, this means that shooting with a taking Film lens at F1.4 the MOVIEtube HS will have the same sensitivity as the video camera without the MOVIEtube. This makes the FILMscreen HS an ideal choice for low light situations and high speed shooting. While shooting with the FILMscreen HS, the lighting effort is reduced drastically. Available light can be used, which enhances the DoP's creative freedom and makes this combination ideal for documentaries, night exterior and other critical situations

Upgrade

MOVIEtube LT or ST models with the classic FILMscreen built-in, can be upgraded. For this, your MOVIEtube must go to one of our service centers. The original FILMscreen will be replaced with the FILMscreen HS. If desired, a High Speed logo will be printed on the camera sledge for easy recognition.

For upgrade details, please contact KINOMATIK head office in London Tel.+44 (0) 20 7735 1900 or email, info@movietube.com.



Stefan Czech, DoP/ Steadicam Operator, Frankfurt/ Germany

Independent Report by Stefan Czech: MOVIEtube LT with FILMscreen HS

The FILMscreen used in the MOVIEtube has a very film-like colour value and simulates the contrast range of film.

Hotspot free and statically integrated, it provides absolute independence of the shutter speed and camera movements.

Fast movements and slow-motion recording are easy to master. It makes no difference whether it is shot with 1/25 of a second or in 60p with 1/1200 of a second.

For productions with smaller budgets and documentary films where speed and flexibility are decisive, the new FILMscreen HS is a fast alternative.

The FILMscreen HS has dramatically better light throughput than the classical FILMscreen. The test pictures (sword images, front page) show a scene photographed with a FILMscreen f-stop at F1.2 and with a FILMscreen HS f-stop at F 2.8 that are almost equally bright. The picture of the MOVIEtube HS was even a touch brighter. This shows that the FILMscreen HS has a speed that is approx. 2.5 f-stops greater than the classical FILMscreen. The picture of the FILMscreen HS is sharper and richer in details. It has a different colour and contrast range than its predecessor.

Where the FILMscreen has a somewhat warmer and softer effect, the FILMscreen HS is more in the cool and clear range, without being cold at the same time.

The Bokeh* turns out a little differently (brushes images, front page). In contrast to the well-known FILMscreen Bokeh*, the FILMscreen HS portrays a lighter Bokeh*. However, it was noticeable that the FILMscreen HS look is very dependent on the lens system that is used and in the process, varies more than the classical FILMscreen. Therefore, it is recommended to always test lens systems for their optical reproduction quality.

Conclusion: Anyone who has to deal with any light situation and likes a sharper, clearer, and simultaneously cooler picture with a lighter Bokeh*, will decide in favour of the FILMscreen HS. In the future, I will film with the FILMscreen HS, because I don't have any measurable light loss and I like the Bokeh*.

***Bokeh** (from the Japanese boke, "blur") is a photographic term referring to the appearance of out-of-focus areas in an image produced by a camera lens. Different lens bokeh produces different aesthetic qualities in out-of-focus backgrounds, which are often used to reduce distractions and emphasize the primary subject. The effect itself is the circle of confusion, an image of the aperture convolved by the image itself.
Source: Wikipedia.org

MOVIEtube System Partner

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Patent Pending
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