Back to the Future of Archiving

KEM STUDIOTECHNIK

KEMscreen, respective STEevolution, is an upgradable digital imaging system for analog film editing tables (KEM and Steenbeck) with modern, digital picture and sound output.

KEM screen

It replaces the bulky and bugged picture-modules of analogue editing tables by a modern digital technique with flat screen display and active speakers. They enable digital ad-hoc recordings while viewing archive stock of both, picture and sound, in a single step.

With this retrofit-set ad-hoc recordings in a modern HD-video-format can be produced very cost efficiently. The records include the embedded sync-sound whatever sound-format the table provides (e.g. SEPMAG).

The new, patented imaging system KEMcore[P] developed by KEM provides a dynamic range that corresponds to the original picture-module. The highlights are reduced by an optical low pass-filter and scaled into the dynamic rage of the digital cinema camera. This way all the information in the highlights of the film material are saved.

At the moment the new system is available for editing tables of the brands of KEM (KEMscreen) and Steenbeck (STEevolution).

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Key Features: (op) = option

- Video display Flat screen
- Video & Audio recording
- KEM KS & Steenbeck ST 6000
- 35/ 16mm
- SEPMAG COMMAG
- SEPOPT COMOPT
- HD - UHD ready (depending on camera)
- KEMcore(P) image processing unit
- Breackout box with complete connectivity
- Camera remote control(op)
- Lutbox (op)
- Synchronized LED Light Source (op)

KEM screen

Technical Details: (op) = option

Video-table interface:	HDMI - Type A PureLink /SDI-adapter
Frame rate:	1080p23.98, 24, 25, 29.97, 30, 50, 59.94, 60
Dynamic range recording:	1: 8000 (13 stops)
Recording formats:	CinemaDNG RAW (520 Mbs)
Recording formats at 30fps:	ProRes 422 HQ (220Mbs) 422 LT (100Mbs)
SD-recording format:	SDXC, SDHC
Image output signal:	YCbCr - 1920 x 1080 embedded Audio
Audio output table:	Low voltage cinch 3,5mm analogue
Embedded Audio:	2 channels, 48 kHz, 24-bit
Film image formats:	N16, S16 up to 35mm OpenGate
LED light source:	monochrome, color temp. approx. 5600°K
Focus assistance for KEMcore(P)	Laser
Power-supply:	AC 110/240 V at 60/50 Hz
Electric charge:	Arrester of all components 100% antistatic
Weight KEMcore(P) only:	approx. 11lbs (5kg)
Dimensions KEMcore (d*h*w):	0'3.9" x 1'3.75" x 0'5.9"(100 x 400 x 150mm)
Surround conditions:	Temp: 59 - 104°F (15 to 40 °C)
	35% - 65% normal humidity