

SPINNER® S 6k4

Pioneering Concept Scanner-Technology
Developed for everyday use

No sprocket – no capstan – no limits

With the new Spinner S, MWA Nova has successfully established another technology-advancing film scanner, to accompany the flashscanHD, Choice and Vario models. This enables users to more safely digitize the shrunken, warped or damaged older analogue motion picture material found in today's archives or presented by private customers. Highly flammable nitrate, warped and shrunken film benefits from Spinner S's simpler film path. The new MWA Spinner S scanner achieves a gentle, minimum film tension of 20 grams /0.2 Newton. The newly developed, sprocketless and capstantless film transport, has a few large rollers, only one tension arm and normal-use gates designed to makes digitizing difficult film easier and less expensive.

Hardware features:

- Sprocketless and capstantless motion transport with RGB LED flash technology
- Unlimited shrinkage, any film geometry definable
- Electric height adjustment, usable horizontal and vertical

Optical features:

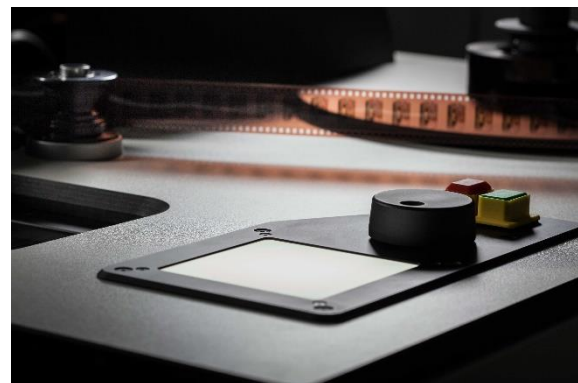
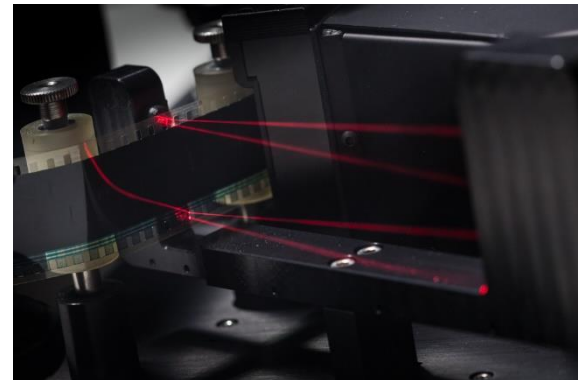
- **2.3k - 2.5k HDR - 5.1k up to 16 Bit - 6k4**
- **8k RGB & Monochrome with MWA Multi Flash Technology**
- **Realtime capturing DCI-4k@25fps**
- Full camera resolution usable for the picture **(no picture pixel wasted for sound or sync)**
- Motorized zoom, focus and panning position
- Full zoom range from 35 mm edge to edge down to standard 8 mm – no lens change necessary
- Image sensor options for more than realtime speed and HDR

Sound features: No extraction from the picture!

- Dedicated sound heads from 8mm to 35mm for optical and magnetic sound
- Combined optical sound head for 16 & 35mm
- Standalone operation as a sound producer, no computer needed.
- Two Spinner synchronizable for sepomag (two Strip)
- transfer, biphasic, master or slave, sync to other scanners/telecines

Software flashSuite2 features:

- New : Metadata protocol with scanning parameters, perf condition and user actions.



Technical Specification for MWA Nova Spinner S 6.4k - Universal Zoom Option - 35mmEdge2Edge Option

Film Formats (Transport)	8mm/S8 – 9.5mm – 16mm/S16 – 17,5 mm 22mm – 28mm – 35mm
Film Transport	Sprocketless & Capstanless - Automatic stop on sticky reels,- Adjustable endstop on core size Acceleration & Deceleration
Sensors	6.4k Aera CMOS Global Shutter 6464 X 4848 px 4:3 / 6464 X 3636 px 16:9
Sensor Format/Diagonal	35mm / 22.3 X 16.74 mm
Pixel Size	3.45 X 3.45µm
Optical System	Option - Universal Zoom: Canon mp-E 65 Range 5x (Actual Zoom Level depends of the selected MaxSize option)
Dynamic Range	Dynamic Range (max) 70.5 dB (depending on operating environment)
Autolight / Autocolour	Software based
Overscan	Option - 35 mm edge to edge
Image Sensor	bayer12bit
Video Processing	
Output Resolution	CoaXPress (up to 4 x 6,25 Gbit/s) / color / Interface-Typ CXP-6 4 Lanes
Output Options	
Tension	variable tension from 0.2N (20 grams)up to 6N (600 grams)
Shrinkage	±5% for predefined formats, custom formats definable for any shrinkage.
Light Source	cool LED – RGB flashlight technology
Max. Preview Frame Rate	6464 X 4848 @ 25fps
Max. Capturing Speed	dpx 12 bit 6464 X 4848 @ 5fps - 4096 x2160 @20fps
Opt.Preview Speed	6464 X 4848 @ 25fps
Opt. Capturig Speed	6464 X 4848 @ 25fps
Vertical Stabilization	Optical Pin Registered pat. MWA Laser Registration 2.0 with two lasers @35mm
Horizontal Stabilization	Optical Image Stabilization - Edge Guided
Max. Reel Diameter	420 mm
Shuttle Speed	35mm@300fps – 16mm@600fps – 8mm@1200fps
File Output Standdarts	TIFF 8 & 16 bit / DPX 8 / 10 / 12 / 16 bit, DPX log. 10 bit & 12 bit, DNxHD, ProRes 422, 422HQ, 422LT, 422 Proxy, Uncompressed YUV 422 8/10 bit, Motion JPEG Workstation / flashsuite2
Audio Processing	24Bit 48kHz WAV and Direct Out / 96kHz Direct Out
Sound Sampling Rate	
Audio Bandwidth / -3dB /	5Hz – 20kHz
Connector Option	SPDIF, AES/EBU IO for external sound capturer and replay Biphase Sync IO. MWA Sepmag Sync for precise coupling of two machines
Mains Power	50W ... 100W average, play forward 25fps (scanner hardware only), 800W rated supply, only exhausted for short time when accelerating heavy reels