$SPURPER 5^2$



Highly customizable modular film scanning system

preliminary product sheet

Film Formats	8mm – 9.5mm – 16mm – 17.5 mm - 22mm – 28mm – 35mm 2/3/4-perf
Film Transport	
Film Transport	sprockelless & capsianess automatic stop on sticky reels, adjustable end stop on core size
	stepwise or continuous transport
0	
Tension	variable tension from 0.2N (20 grams) up to 6N (600 grams)
Sensor Options	6.4K / 12 Bit Bayer color filter array (6464 x 4852, recommended)
	9.5K / 16 Bit Monochrome color-sequential (9568 x 6380, recommended)
XX	11.6K / 16 Bit Monochrome color-sequential (11648 x 8742)
\sim	14.2K / 16 Bit Monochrome color-sequential (14192 x 106409)
Dynamic Range	($Dmax minus Dmin$) Single exposure 16 Bit – 4.1 (82 dB)
	Double exposure HDR 16 Bit -4.8 (96 dB)
Speeds	Scanning speed with continuous transport:
	6.4K Bayer filter sensor: Color and B/W 12 Bit - 25 fps
1 1.1/2	Scanning speed with stepwise transport:
	9 ON HUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
	Color RGB 12 Bit - 3.0 fps
A	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps
P	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps
Pa	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps
-9	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps
-9	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 14 Bit - 1.25 fps
-0	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 14 Bit - 1.25 fps HDR Color RGB 16 Bit - 0.67 fps
	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 14 Bit - 1.25 fps HDR Color RGB 16 Bit - 0.67 fps
Lens Options	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 14 Bit - 1.25 fps HDR Color RGB 16 Bit - 0.67 fps Standard lens: 72 LP/mm @ 30% MTF
Lens Options	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 14 Bit - 1.25 fps HDR Color RGB 16 Bit - 0.67 fps Standard lens: 72 LP/mm @ 30% MTF 108 LP/mm @ 30% MTF
Lens Options	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 14 Bit - 1.25 fps HDR Color RGB 16 Bit - 0.67 fps Standard lens: 72 LP/mm @ 30% MTF Ultra resolution lens: 108 LP/mm @ 30% MTF
Lens Options Optical Zoom Range	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 14 Bit - 1.25 fps HDR Color RGB 16 Bit - 0.67 fps Standard lens: 72 LP/mm @ 30% MTF Ultra resolution lens: 108 LP/mm @ 30% MTF
Lens Options Optical Zoom Range Light Source	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 14 Bit - 1.25 fps HDR Color RGB 16 Bit - 0.67 fps Standard lens: 72 LP/mm @ 30% MTF Ultra resolution lens: 108 LP/mm @ 30% MTF 16 to 35mm edge to edge cold LED – RGB flashlight technology
Lens Options Optical Zoom Range Light Source Vertical Stabilization	Color RGB 12 Bit - 3.0 fps Color RGB 14 Bit - 2.0 fps Color RGB 16 Bit - 1.33 fps HDR B/W 16 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 12 Bit - 2.0 fps HDR Color RGB 14 Bit - 1.25 fps HDR Color RGB 16 Bit - 0.67 fps Standard lens: 72 LP/mm @ 30% MTF Ultra resolution lens: 108 LP/mm @ 30% MTF 16 to 35mm edge to edge cold LED – RGB flashlight technology optical pin registered pat. MWA Laser Registration 2.0 optical image stabilization (software stabilization with 9,5K sensor)

preliminary product sheet

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Winding Speed	with live preview
	8-16 mm - 700 fps
	35 mm - 300 fps
	MWA flashsuite/flashcapture software for picture and sound recording
Software Features	film transport control, playback, shuttle, stepping
	live preview image
	image stabilisation with reference to perforation holes
	cut out the image on the sensor area and up/downscale to the output file
ľ /	white point control of the light source with color picker
	sound recording with or without picture
1//	audio channel matrix with sepmag sources and external sources
Eile Output Formata	
File Output Formats	Strictly linear linear with video gamma logarithmic
	True B/W and color file output
	DNxHD, ProRes 422, 422HQ, 422LT, 422 Proxy
	Uncompressed YUV 422 8/10 bit, Motion JPEG
Matadata autput	ISON and XML file with recording pattings, film matadate and par frame
	image analysis data.
Sound Heads	COMMAG 8+S8, 9.5, 16, 35
	OPTICAL 8, 9.5, 16, 17.5, 35, 16+35 combi
Output Sound Format	WAV 24 Bit 48 or 96 kHz up to 8 tracks
Connectors	Binhase In + Out, master and slave operation possible
Connectors	MWA-422 for inter-machine control
	3x AES In + Out
	Stereo Analog XLR In + Out
	USB for machine control and audio
/	CoaXPress (25 Gbit/s) imaging sensor interface
L	
Optional Accessories	Automatic Wet Gate
	acrylic glass hood, height adjustable rack
	PTRs, foot pedals, headphone jack, split reels
Power Consumption	50W 100W average, play forward 25fps (scanner hardware only)
	reels
MWA Nova Gm	bH • Zillestr 11 • 10585 Berlin / Germany • www.mwa-nova.com
	$\mathbf{E} + 10 (0)30 - 308 010 0 - 0 + 0 contact 0 mwa-nova com$