

TRIBE⁷



BLACKNING⁷

PRIME LENS RANGE

SPECS · TIMING · PRICING · CREDITS



THIS ADVANCE INFORMATION IS SUBJECT TO CHANGE

O U T L I N E

Purpose-designed for large format motion picture imaging, BLACKWING⁷ lenses from TRIBE⁷ represent an entirely new range of tuned optics for contemporary film makers to use within their creative story telling.

BLACKWING⁷ optics exhibit unique imaging properties which arise from the introduction of controlled distortion during the development and manufacturing processes. This distortion is modular and allows a level of tuneability over key parameters which shape many creative characteristics of the lenses.

The lens range comprises a core set of 8 focal lengths, with three additional planned focal lengths. All lenses are offered in three tuning options per focal length, configurable at point of manufacture.

BLACKWING⁷ lens tuning allows parameters such as sharpness, contrast, roll-off, spherical aberration, field curvature, edge halation and flare to be modified to provide sets of “curated” optics to suit the personality and intent of the owner.

Many of the design cues for BLACKWING⁷ primes originate in optics manufactured during the 1930 - 1960s, but the real inspiration behind the lenses lies in the evolutionary nature of experimental music and audio synthesis, and the process of creating distortion through sound amplification.

Conceptually, the ability to tune each BLACKWING⁷ lens is identical to how EQ adjustment is used in music production - to control the range, or shape of tonality in specific bands across the audio frequency spectrum. The image produced by a BLACKWING⁷ lens can be described as having a musical fidelity to it; with each focal length having an underlying level of distortion which can be controlled to produce strong artistic resonances including unique flaring characteristics.

Ten sets of BLACKWING⁷ BINARIES were created by TRIBE⁷ to help introduce the film making community to the concept of audio merging into imaging. These limited-edition BINARIES are named in recognition of creative imaging not being a black or white process – film makers accessing a wide choice of optics is essential to serve creative storytelling. BLACKWING⁷ BINARIES have been widely used on commercials, music videos, TV and feature productions and all feedback from these unique lenses has contributed to the production tuning of the BLACKWING⁷ prime lenses which are now shipping.



TECHNICAL SPECIFICATION

| FOCAL LENGTH | IMAGE CIRCLE | CLOSE FOCUS | | WEIGHT | |
|--------------|--------------|-------------|---------------------|--------|------|
| | | MM | MM MAX ILLUMINATION | IN | CM |
| 20.7 | 50 | <9.0 | <23.0 | 3.2 | 1.45 |
| 27 | 55 | 13.0 | 34.0 | 3.6 | 1.7 |
| 37 | 60 | 18.0 | 45.7 | 3.4 | 1.6 |
| 47 | 60 | 17.5 | 44.5 | 3.2 | 1.5 |
| 57 | 60 | 19.0 | 48.3 | 3.5 | 1.6 |
| 77 | 60 | 26.0 | 66.0 | 3.0 | 1.4 |
| 107 | 62 | 27.0 | 68.5 | 3.2 | 1.4 |
| 137 | 62 | 32.0 | 81.3 | 3.2 | 1.5 |

BLACKWING⁷ TECHNICAL SPECIFICATIONS

| | | |
|-----------------------------|-------------------------|---|
| APERTURE | — | T1.8 TO T22 FOR 77 & 107MM T1.9 TO T22 FOR ALL OTHER FOCAL LENGTHS |
| IRIS SYSTEM | — | NON-LINEAR, 14 BLADE |
| IMAGE DISTORTION | — | LESS THAN -4% / +0.5% |
| TRANSMISSION WAVEBAND | — | 420 _{NM} TO 680 _{NM} |
| COLOR AND TONALITY | — | MATCHED ACROSS THE RANGE |
| MAGNIFICATION SHIFT | — | LESS THAN 4% (FROM ∞ TO CLOSE FOCUS) |
| FOCUS AND IRIS BACKLASH | — | NEGLIGIBLE |
| FLANGE SYSTEM | — | PL MOUNT |
| FOCUS SCALE AND DRIVE | | WINDOWED |
| | 27 TO 137 _{MM} | LEFT/RIGHT IN FEET (METERS ON REQUEST) |
| | 20.7 _{MM} | LEFT SIDE ONLY IN FEET (METERS ON REQUEST) |
| | | 270-DEGREE ROTATION |
| | | GEARING: 142 TEETH, 0.8 _{MM} MOD, 6 _{MM} WIDTH, |
| APERTURE SCALE AND DRIVE | — | 115.2 _{MM} DIA NON-WINDOWED LEFT/RIGHT 90-DEGREE ROTATION GEARING: 134 TEETH, 0.8 _{MM} MOD, 3 _{MM} WIDTH, |
| OPERATING TEMPERATURE RANGE | — | 108.8 _{MM} DIA -20 TO +45 C |

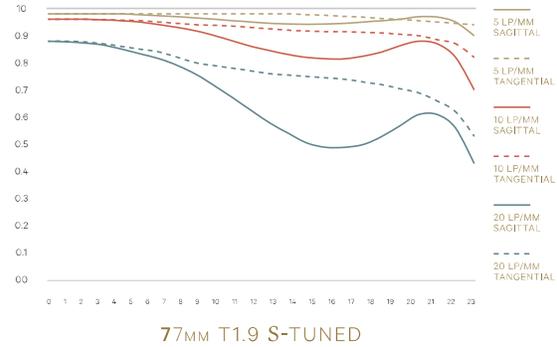


TUNING

Every BLACKWING⁷ lens is hand-built, using a proprietary production tuning process which allows the optical performance of each lens in the range to be uniquely configured and tuned to their owner's wishes and creative style. Three pre-set tonalities are available to order:

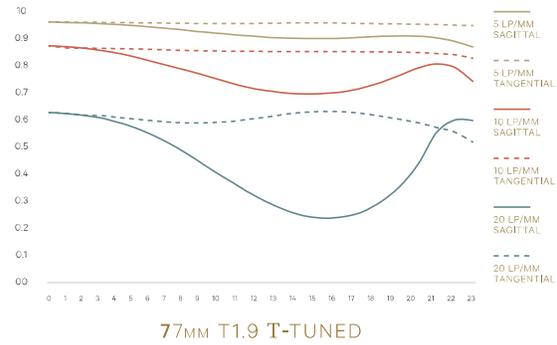
S STRAIGHT

S-tune BLACKWING⁷ primes have a tuning profile based on optical designs from the first half of the 20TH Century, such as the 1950 Wray UNILITE 50MM f/2. S lenses have optical elements with multi-layer coatings to help control the resonant flare characteristics seen in the T and X variant BLACKWING⁷ primes. The more advanced optical coating also allows a modest increase in central image sharpness whilst maintaining a smooth roll-off of contrast across the frame.



T TRANSIENT

T-tune BLACKWING⁷ primes are very much the workhorse lenses in the BLACKWING⁷ range. They have a tuning profile which further exaggerates contrast roll-off to the edge of the frame and provides increased edge halation. T lenses have a unique personality and are designed to render a slightly softer, more artistic image, with a higher degree of light reactivity and more vibrant flaring characteristic due to the use of vintage-style single-coated optics.



X EXPRESSIVE

X-tune BLACKWING⁷ primes are the lowest contrast variant of the BLACKWING⁷ lens range. Further exaggerated edge halation, with a minor degree of spherical aberration and focal plane curvature increases the perception of a shallower depth of field. X-tuned optics have selective edge-uncoating to reduce contrast under hard lighting conditions. They are designed for film makers who light minimally and favour lenses which can create smooth, almost ethereal images.

