

BAND PRO PRESENTS

Zeiss DigiPrime® Lenses

DigiPrime 3
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ZEISS

www.digiprimes.com

Imagine a set of prime lenses so precise, they redefine the concept of *High Definition*. So sophisticated, they change every aspect of HD cinematography. The look. The feel. The performance. They're DigiPrimes®. Developed by Carl Zeiss, the premiere creator of cine lenses. And the name filmmakers have trusted for 80 years. Brought to you by Band Pro, the leader in HD cinematography systems.

Having established the standard for cine primes, Zeiss brings their superior engineering and unsurpassed craftsmanship to the world of digital cinematography. DigiPrimes have been designed from scratch to utilize the full creative and technical potential of the finest 2/3" High Definition cameras. Sharp. Fast. True. These extraordinary lenses provide unprecedented optical performance. And DigiPrimes offer custom features to meet the demands of today's cinematic style.

Redefine your imagination with DigiPrimes.

Prime Advantage

Cinematographers have long appreciated the advantages of prime lenses. Their smaller, lighter design makes them ideal for handheld camerawork. Built with fewer optical elements, primes have less glass-to-air surfaces, so images have greater clarity and brilliance and are less prone to flare & ghosting. DigiPrimes have been designed to deliver images far crisper and sharper than those achieved with a zoom. With an unchanging center of gravity (thanks to their internal focus design), DigiPrimes are suited for work requiring critical balance like Steadicam.

Internal Focus Design

DigiPrimes employ Zeiss Internal Focusing Design (IFD). With Zeiss IFD, the optical performance is kept at top level, center to corner, over the entire focusing range. There is no rotation of the front exterior housing. Focusing the lens moves only small lightweight lens groups within the DigiPrime's interior, eliminating any shift in the center of gravity. This ensures highly accurate focus and maximum image quality every time.

Digital Cinematography



DigiPrimes®

Uniform Size & Shape

Every DigiPrime lens features the same barrel diameter and length. Each has a similar balance and center of gravity.

Focus and iris gears are uniformly positioned. Therefore switching lenses does not require realignment of accessories such as matteboxes, lens motors, or even fluid head counterbalance. In addition, all lenses have a convenient 95mm front diameter. A perfect fit for film lens accessories. And even when it comes to lens caps, one size fits all.

Accurate & Visible Markings

DigiPrimes' lens barrel diameter provides ample space for oversized scales and precise, easy-to-read engravings. The etched markings are filled with long-life bright yellow or white enamel for high visibility, regardless of ambient lighting. Like the finest cine lenses, focus scales are viewable via a windowing system available

The DigiPrime® high-precision primary lens set includes 5mm (T1.9), 7mm (T1.6), 10mm (T1.6), 14mm (T1.6), 20mm (T1.6) and 40mm (T1.6). Each B4 mount lens has the identical barrel diameter and length.



5mm (T1.9)



7mm (T1.6)

Innovative Iris

The Zeiss team collaborated on a revolutionary new iris design exclusively for DigiPrimes. The result is clearly the best diaphragm system ever created for video or motion picture lenses. Free from lag, slop or backlash, the new iris utilizes up to eleven blades to deliver circular diaphragm openings. This results in pleasing and natural-looking highlights, and detail in soft-focus areas of the image.

Optimum Wide Open

In situations with minimal light, DigiPrimes provide maximum creative control over depth of field. Like no other cinematography lens, the new Zeiss design allows for shooting with the aperture fully open. It provides for unsurpassed contrast by minimizing flare, veiling glare & internal reflections, well below any other lens. The toughest lighting conditions are now readily achievable.

is about to enter it's Prime.

on both sides of the lens. Iris scales are also clearly visible from either side.

Zeiss has improved on conventional focus scales, equipping DigiPrimes with around 300° of barrel rotation. The expanded scales are individually calibrated for each lens to facilitate pinpoint accuracy. As a convenience, the standard focus ring, engraved in feet & inches, can be quickly changed to meters. The equally advanced iris scale is marked in 1/3-stop increments for ultra-accurate exposure.

Fixed Iris & Focus Gears

DigiPrimes' geared rings are positioned uniformly across the set. Focus & iris scales are arranged in the ergonomically correct order: focus in front & iris behind, next to the camera.

Solid construction under rigid tolerances is responsible for keeping the focus and iris gear positions absolutely fixed even while focusing. There is no axial travel and no play. Positioning external lens motors & encoders is simplified, so there's less wear and tear. Lens changes are simple, speedy and safe.

High-precision Focus

DigiPrimes are designed to achieve and hold the most critical focus. The focus drive mechanism has been scrupulously engineered to eliminate backlash and play.

When focusing DigiPrime lenses, the image remains perfectly centered. There is no tilt, rotation, or shift. Each DigiPrime is designed to be virtually free of breathing, so focusing does not influence image size. Changes in aperture have no effect on focus.



10mm (T1.6)



14mm (T1.6)



20mm (T1.6)



40mm (T1.6)

Absolutely Precise Back-Focus

Precision back-focus is critical to properly calibrated focus scales and perfectly focused images. That is why DigiPrimes were designed with a highly refined back-focus mechanism that ensures accurately maintained focus scale calibration across the entire focusing range. Back-focus scales are clearly engraved for exact repeatability. Once desired back-focus is achieved, the dependable locking feature fastens the mechanism securely in place.

Floating Element Design

While engineering their famous primes for 35mm filmmaking, Carl Zeiss perfected the *floating element design*, whereby lens groups move precisely in relation to each other during focusing to correct image area curvature and related optical aberrations. The DigiPrime design effectively makes use of floating element groups to eliminate field and edge distortion, and to yield sharp, high-resolution images across the field of view – even down to the closest focus.

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NAB Booth #L11068

Technical Data: Zeiss DigiPrimes®

DigiPrime® Lens		Close Focus Limit (ref: film plane)		Length	Front Diameter	Weight		Number of Elements	Number of Groups	MTF Value for 56 lp/mm for Infinity GN Channel	Image Angle 4:3			Image Angle 16:9			Focus Angular Rotation	Equivalent Super 35 Lens Zeiss ULTRA PRIME	
Focal Length mm	T Stop	Type	Meters	Inches	mm	mm	Grams	Pounds			Horizontal	Vertical	Diagonal	Horizontal	Vertical	Diagonal			
5	1.9	Distagon 1.7	0.5	20"	164	95	1380	3 lbs.	19	13	> 90%	82.0°	66.0°	94.2°	87°	55.8°	94.2°	294°	12
7	1.6	Distagon 1.5	0.5	20"	164	95	1550	3 lbs. 6oz.	18	14	> 90%	65.0°	51.0°	76.6°	69.6°	42.4°	76.6°	289°	16
10	1.6	Distagon 1.5	0.5	20"	164	95	1510	3 lbs. 5oz.	17	13	> 90%	48.0°	37.0°	58.0°	52.0°	30.6°	58.0°	308°	24
14	1.6	Distagon 1.5	0.5	20"	164	95	1330	2 lbs. 15oz.	15	12	> 90%	35.4°	26.8°	43.4°	38.4°	22.0°	43.4°	285°	32
20	1.6	Distagon 1.5	0.5	20"	164	95	1350	3 lbs.	15	11	> 90%	24.8°	18.8°	30.8°	27.0°	15.4°	30.8°	299°	50
40	1.6	Distagon 1.5	0.5	20"	164	95	1440	3 lbs. 2oz.	14	12	> 90%	12.6°	9.6°	15.8°	13.8°	7.8°	15.8°	312°	100

Specifications subject to change without notice.

Redefine your imagination. DigiPrimes®

Elegant Craftsmanship & Inspired Engineering

DigiPrime lenses are engineered and built at the Carl Zeiss camera lens headquarters in Oberkochen Germany. Each lens is created through a combination of precise craftsmanship and solid construction—qualities that have established Carl Zeiss as the world leader in mechanical and optical technology. The DigiPrime lens barrel is elegant yet robust—ready to carry accessories like clamp-on shades, filters, ring lights, encoders and motors without distorting or impacting optical performance. A filter slot has been omitted in favor of a more rugged mechanical design. Scales and indices are carefully engraved for long-term accuracy and durability. Plus, DigiPrime's smart modularity streamlines service and maintenance.

DigiPrime Lens on Panasonic High Definition camera.

Chrosziel Filmtechnik—official DigiPrime accessory source.

Superior Image Contrast

For the DigiPrime project, the Zeiss team met an unprecedented optically demanding design criterion. To prove image crispness, the new primes exceed an amazing 90% MTF value for the rendering of 56-line pairs/mm. This exceeds the performance of other Digital Cinematography lenses. In addition, perception of sharpness is aided by the uniform brightness across the image area. The resulting images are pure and saturated, free of color fringing across the focus range, thus ideal for demanding green screen work.

Super Color Matched

Carl Zeiss carefully selects superior quality optical glass for the best color characteristics. Then individual lens surfaces receive the Carl Zeiss proprietary T* multiple layer anti-reflex coating, and the Carl Zeiss proprietary color matching treatment CMT is applied to ensure uniform color characteristics throughout the set. Thus, minimizing costly color timing in post-production.

Each set of DigiPrimes comes with a 16:9 Chrosziel Sunshade/Filterholder. Equipped with (2) 4x4/4x5.650 filterholders, one fixed and one rotating.

See DigiPrimes at:

NAB Booth #L11068
Cine Gear Expo

For Agent Information:

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