

# Schneider-Kreuznach Xenon FF-Prime Lenses Made to match the needs of today's digital

*Cinematographer*

FULL FRAME  
—  
LIGHTWEIGHT  
—  
4K AND  
BEYOND



# Schneider-Kreuznach Xenon FF-Primes Made to move forward with you as cameras

*evolve*

Finally a set of matched professional primes, purpose-built from scratch for the demands of today's high-resolution digital cinematography – made to last through generations of changing camera technology – and priced to own.

Just in time for the new era in digital cinematography with full frame sensor cameras shooting at 4K and higher resolution, Schneider-Kreuznach Xenon FF-Primes provide full frame coverage and a true 4K optical design. Users hail their uniform, size, weight, internal design and consistent performance throughout the set. And thanks to exclusive Interchangeable mounts, FF-Primes work beautifully with a variety of different cine, HD/SLR and other new cameras as they arrive on the scene.

## Made in Germany, used worldwide

For over 100 years Schneider-Kreuznach's pursuit of optical perfection has led to a host of technological innovations both in cinematography, photography, cinema projection and more. Lenses made by Schneider-Kreuznach have consistently stood for exceptional precision and robustness. And lenses are just one part of the picture. MPTV filters are "must-haves" for cinematographers worldwide. The tolerances are so precise that the company also makes test and measurement systems for use in our own facilities as well as for other names in the industry.

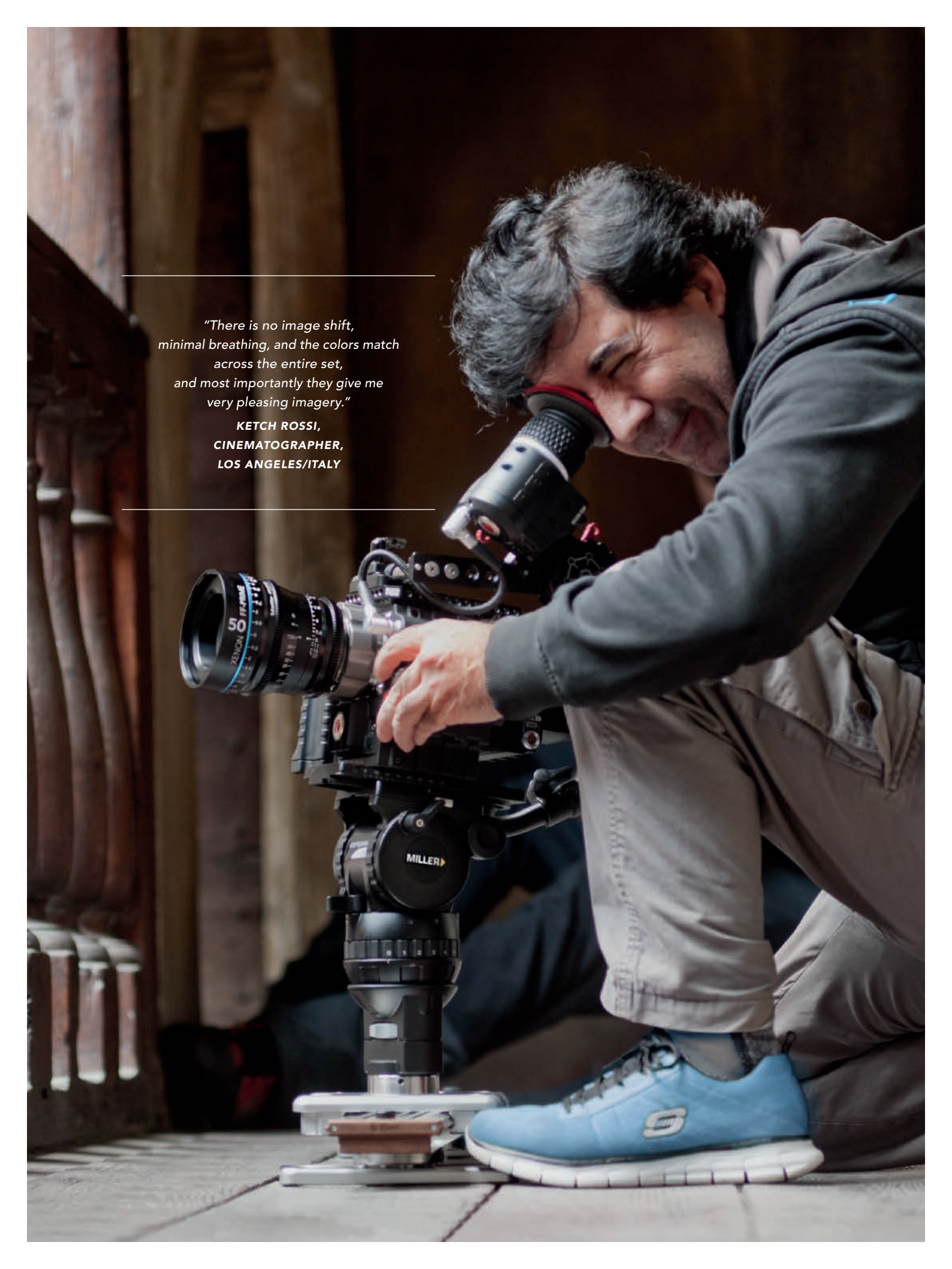
Schneider-Kreuznach is proud to have been recognized with dozens of prestigious industry honors including Technical Achievement Awards from the Academy of Motion Picture Arts and Sciences and an Emmy from the Academy of Television Arts and Sciences. Today, with the introduction of the FF-Prime Lens family, our dedication to advancement continues.

## Xenon FF-Primes Work with You

In today's fast moving world the last thing you want to slow you down is your optics package. That's why Xenon FF-Primes were custom designed from the ground up to be versatile enough to work with an array of cameras and accessories you may need for various projects today and tomorrow. So whether it is RED Dragon, Canon C100/C300/C500, Arri Alexa, Black Magic, Sony F5/F55 and HD/SLR cameras, these compact lenses provide 4K resolution and cover the full 43.3 mm image circle usable on Canon 5D Mark III and Nikon D800 cameras.

The Xenon FF-Prime family includes 18 mm T2.4, 25 mm T2.1, 35 mm T2.1, 50 mm T2.1, 75 mm T2.1, 100 mm T2.1 and 135 mm T2.1 focal lengths. These German-made optics offer outstanding image quality yet are ruggedly built to withstand the daily rigors of a working set.



A man with dark, wavy hair is crouching on a wooden floor, looking through the viewfinder of a professional video camera. The camera is mounted on a black Miller gimbal. The man is wearing a dark grey hoodie, light-colored cargo pants, and blue sneakers with a white 'S' logo. The camera has a large lens with '50' and 'ZEISS' visible. The background is a rustic wooden interior.

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*"There is no image shift,  
minimal breathing, and the colors match  
across the entire set,  
and most importantly they give me  
very pleasing imagery."*

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**KETCH ROSSI,  
CINEMATOGRAPHER,  
LOS ANGELES/ITALY**



# Xenon FF-Primes

## Features and Specifications



### Purpose Built for Today's Full Frame Sensor Cameras

Designed especially for digital cinematography with today's HD/SLR and other cameras, the new Xenon full-frame lenses are the first fully professional, affordable primes that are optimized for 4K sensors and greater and deliver outstanding results under 4K as well. They elegantly cover the full 43.3 mm image circle that's usable on Canon 5D Mark III and Nikon D800 cameras. With an all-new optical and mechanical design that combines leading edge technology, combined with time-honored expertise, FF-Primes facilitate outstanding images tailored to top digital cinematography cameras today and beyond.

### Uniform Size, Weight and Balance

Except for their bold focal length markings, each FF-Prime in the set looks the same. They share the same external dimensions, gear location, and similar weights. The only exception is the new 135 mm T2.1 that is 10 mm longer but is identical in all other respects. The uniform size and gear positions assure easy compatibility with existing cameras and accessories.

### Quick Change Artist


Focus and iris gearing is uniformly positioned from lens to lens so that follow focus mechanisms, motors, and other accessories needn't be painstakingly repositioned each time a lens is changed – a real time-saver. And to accommodate standard filters and other accessories, each FF-Prime lens has a 100 mm front diameter with standard 95 mm thread (only 18 mm has no thread).

### Cam Driven Constant Volume Focus

Incorporating the most up-to-date optical and mechanical design features, the FF-Primes utilize a cam driven focus instead of the helical thread commonly found on photo-based lenses. The cam permits more evenly spaced focus marks so focus is easier and more intuitive. The relatively uniform weight of the lenses greatly simplifies setting counterbalance on both tripod heads and specialty camera support equipment like Steadicam and MōVI stabilizers. Cam driven focus and precisely calibrated focus scales provide accuracy and repeatability you can rely on.

### Accurate and Visible Markings

FF-Primes feature oversized, bright and clean, easy-to-read focus and iris marks on both sides of the lens so they can easily read regardless of where the Assistant is positioned. The distinctive focal length numerals are bold and sans serif – for quick viewing in any light. With a 300° barrel rotation, the manual focus markings support precise accuracy and dead-on repeatability.



*"The similar length of each lens makes it easy to manage when changing them, and they paired perfectly with my Chrosziel Super Wide MatteBox, Dual Sided Studio Rig and Follow Focus, as well as Schneider's True-Pol® and ND combo filters."*

**THOMAS RIST, CINEMATOGRAPHER,  
LOS ANGELES/BERLIN**

## Color Matching Throughout the Line

Costly color correction is minimized when the image is acquired through a Schneider-Kreuznach prime. Each Xenon is color matched to the others in the set thanks to Schneider-Kreuznach's expert optical engineering and proprietary lens coatings.

## Proprietary 14-Blade Iris on Every Lens

Fourteen identical precision honed blades form the meticulously precise circular aperture that lets the light into each FF-Prime. Every T stop on every lens in the family provides a pleasing and consistent bokeh that rivals the finest film lenses.

## Flare Optimization and "Film Look"

Engineering a lens from the ground up is a delicate balance of mechanics, glass and coatings. Schneider-Kreuznach's outstanding engineers have specified and selected the finest glass and applied propriety anti-reflection coatings to suppress unwanted flare. Most cinematographers agree that FF-Primes have a pleasing "film look" and the near telecentric design minimizes breathing while pulling focus.



Xenon FF-Prime 100 mm



Xenon FF-Prime 35 mm

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*"I would describe the FF-Primes  
look as creamy and organic,  
very natural and classic."*

**HAL LONG,**  
**DIRECTOR/CINEMATOGRAPHER**  
**HENRY FILMS, LOS ANGELES**

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## Mount Versatility

Xenon FF-Prime Lenses are available in Canon EF-, Nikon F-, and PL-mounts. For those who work with different cameras, Schneider-Kreuznach offers interchangeable bayonet mount kits that may be readily installed by a competent lens technician.

## Robust and Reliable, Guaranteed

Schneider-Kreuznach Xenon FF-Primes are built for action. With 100 years in the photography field Schneider-Kreuznach understands the rigors of life on the set. So FF-Primes are built to move with you through repeated focus and iris changes. The lens' mechanics are built to stand up through the shoot and over the years.

## Protection in Case

Schneider-Kreuznach offers a choice of transport solutions for the Xenon FF-Primes. Made of rock solid hard composite material, the Schneider-Kreuznach wheeled hard case features high-density foam cutouts for 4 lenses and rubberized textured handgrips to facilitate handling. Or users may prefer the individual pouches that each holds a single lens. Offering dense foam padded sides and floor, each durable fabric covered pouch zips up to secure contents within, and features a convenient carrying.



Xenon FF-Prime 50 mm



# Xenon FF-Primes Accessories



Mount kit Canon EF



Mount kit Nikon F



Mount kit PL



Wheeled hard case



Lens pouch

# Xenon FF-Primes Key Features

- Covers full frame sensors 36 x 24 mm
- Designed for 4K res
- Lightweight
- Standard lens accessory ready
- Uniform dimensions throughout the set
- Canon EF-, Nikon F- or PL-mount, Interchangeable bayonet mounts
- Uniform dimensions
- Color matched
- Minimized Breathing
- Flare optimization & film look
- 14 iris blades on each lens for an outstanding bokeh
- Easy to view lens markings
- Calibrated focus scales for reliable adjustment & shot repeatability
- 95 mm filter thread

# Xenon FF-Primes

## Technical data

Lens name	Aperture range	Close Focus from image plane	Length			Front diameter	Weight	Horizontal Angle of View	Horizontal Angle of View
			Mount	Full length	Front to flange			Full Frame <sup>1</sup>	Super 35 <sup>2</sup>
Xenon FF Prime T 2.4 / 18	T 2.4 – 22	0.4 m / 16"	PL	133.2 mm / 5.24"	122.2 mm / 4.81"	100 mm / 3.9"	1390 g / 3.1 lb	89°	54°
			EF	133.2 mm / 5.34"	130.2 mm / 5.13"				
			F	132.2 mm / 5.21"	127.7 mm / 5.03"				
Xenon FF Prime T 2.1 / 25	T 2.1 – 22	0.3 m / 12"	PL	133.2 mm / 5.24"	122.2 mm / 4.81"	100 mm / 3.9"	1230 g / 2.7 lb	71°	52°
			EF	133.2 mm / 5.34"	130.2 mm / 5.13"				
			F	132.2 mm / 5.21"	127.7 mm / 5.03"				
Xenon FF Prime T2.1/ 35	T 2.1 – 22	0.35 m / 14"	PL	133.2 mm / 5.24"	122.2 mm / 4.81"	100 mm / 3.9"	1160 g / 2.6 lb	55°	39°
			EF	133.2 mm / 5.34"	130.2 mm / 5.13"				
			F	132.2 mm / 5.21"	127.7 mm / 5.03"				
Xenon FF Prime T2.1/50	T 2.1 – 22	0.50 m / 20"	PL	133.2 mm / 5.24"	122.2 mm / 4.81"	100 mm / 3.9"	1190 g / 2.6 lb	40°	28°
			EF	133.2 mm / 5.34"	130.2 mm / 5.13"				
			F	132.2 mm / 5.21"	127.7 mm / 5.03"				
Xenon FF Prime T2.1/75	T 2.1 – 22	0.98 m / 2'6"	PL	133.2 mm / 5.24"	122.2 mm / 4.81"	100 mm / 3.9"	1180 g / 2.6 lb	27°	19°
			EF	133.2 mm / 5.34"	130.2 mm / 5.13"				
			F	132.2 mm / 5.21"	127.7 mm / 5.03"				
Xenon FF Prime T2.1/100	T 2.1 – 22	1 m / 3'3"	PL	133.2 mm / 5.24"	122.2 mm / 4.81"	100 mm / 3.9"	1190 g / 2.6 lb	21°	14.5°
			EF	133.2 mm / 5.34"	130.2 mm / 5.13"				
			F	132.2 mm / 5.21"	127.7 mm / 5.03"				
Xenon FF Prime T 2.1/135	T 2.1 – 22	1 m / 3'3"	PL	143.5 mm / 5.7"	132.5 mm / 5.1"	100 mm / 3.9"	1300 g / 2.6 lb	15°	11°
			EF	143.5 mm / 5.7"	140.5 mm / 5.5"				
			F	142.5 mm / 5.6"	138.0 mm / 5.4"				

<sup>1</sup> Full Frame: Horizontal angle of view for a full frame camera aperture (aspect ratio 1.5, dimensions 36 mm x 24 mm / 1.42" x 0.94")

<sup>2</sup> Super 35: Horizontal angle of view for a Super 35 camera aperture (aspect ratio 1.33, dimensions 24.9 mm x 18.7 mm / 0.98" x 0.74")