Carl Zeiss
Compact Prime CP.2 Lenses

ZEISS

We make it visible.

High Flexibility Meets Maximum Quality

The Compact Prime CP.2 lenses are the latest members of the ZEISS family of lenses for digital and film cameras. This second generation of the Compact Prime lenses now delivers even greater flexibility by introducing interchangeable mounts that allow the lenses to be used with a wide range of cameras from traditional cine to HDSLR systems. This new generation also offers a wide choice of lenses – from wide-angle to tele lenses (18 to 100 mm, including a 50 mm macro lens). Affordable, flexible, yet of the highest quality, the new Compact Prime CP.2 lenses are a valuable edition to any film set and any level of cinematographic equipment.

Interchangeable Mount

The Compact Prime CP.2 lenses are the world's first cine lenses designed for use with HDSLR cameras. The interchangeable mount guarantees high flexibility for present and future use in any situation and for a wide range of camera platforms.

- Allows a mix of HDSLR systems with traditional cine cameras, for maximum flexibility on set
- No need for adapter solutions anymore
- Three different mounts available (PL, EF and F mount)

Ready for the Future

The Compact Prime CP.2 lenses cover a full-frame image format without vignetting. Combined with the interchangeable mount, the Compact Prime CP.2 offers the possibility to upgrade to any number of existing or future cine and still cameras while still utilizing the same set of lenses.

- Full-frame coverage (24 x36 mm)
- Common aperture of T2.1 for the standard lens set
- Sweet spot effect with APS-C sensors

Unique 14-blade Iris

The iris opening of the Compact Prime CP.2 lenses is created by 14 high precision blades. It stays consistently round and symmetrical over the entire T-stop range. This translates into natural and pleasing out-of-focus highlights and a smooth bokeh. Together they help create and capture special moments on film.

High Optical Performance

The modern lens design as well as the cine manufacturing process and tight tolerances ensure low distortion, high resolution and excellent color rendition for sharp, punchy images.

- High resolution and contrast
- Low distortion
- Color matched

Main Features

Great flare suppression through T* anti-reflex coating and internal light traps

Calibrated lens scales

Standard focus, front diameter and iris gear positions

Robust and reliable cine style housing

interchangeable mounts

PL mount

EF mount

F mount

Scale 1:1
Image shows original size

High Flexibility Meets Full-Frame Coverage (24 x 36mm)

With its long history in both photo and cine lenses, Carl Zeiss is dedicated to supporting filmmakers and allowing them to benefit from the highest possible image quality in any situation.

The new Compact Prime CP.2 lenses offer professional quality on a budget and have been designed for both film cameras and the emerging generation of digital motion picture cameras. Covering the Super 35 as well as the full-frame stills format, makes these lenses a safe investment for the future.

Made for the Set

Switching between traditional film and digital PL cine cameras and HDSLR cameras is no longer an issue. The improved functionality of Compact Prime CP.2 lenses means better ergonomics compared to standard SLR lenses:

- a standard housing dimensions
- a standard focus and iris gear positions
- a consistent front diameter
- a robust construction
- a longer focus rotation and a manual focus

The Compact Prime CP.2 lenses will be based around a common aperture of T2.1 for the standard set – an improvement over the first generation lenses.

With precision and speed – Compact Prime CP.2 lenses are the perfect tool for Independent filmmakers, professional still photographers expanding their services or large studios using HDSLR's as a second camera for TV and feature film productions.

High Flexibility Meets A wide Range

Combined with new interchangeable mounts and a wide product range, the Compact Prime CP.2 lenses maximize ease of use. Changing the lenses is now fast and easy and offers great flexibility, regardless of the camera equipment used.

Lens Product Comparison

	Compact Primes CP.2	Ultra Primes	Master Primes
Interchangeable mount	√		
Image area covered	Full-format still image	ANSI Super 25	ANSI Super 35
Cine quality robust housing	√	√	√
Standard housing dimensions	√	√	√
Standard focus/iris ring position	√	√	√
Calibrated lens scales	√	√	√
Round iris for natural out of focus bokah	√	√	√
Flare suppression[1]	++	++	+++
Consistent performance across whole T-stop range	+	++	+++
Resolution	+	++	+++
Evenly illuminated field	+	++	+++
Close focus performance	+	++	+++
Image geometry[2]	+	+	+++
Breathing[3]	+	+	+++
Color matched	√	√	√
Super color matched		√	√
Linear iris scales		√	√
Constant widest T-stop		√	√
Lens Data System		√	√
Extended T-stop range			√
Reversible focus scales (m/ft)			√
Temperature stabilized torque			√
Permadur™ gear surface			√
Widest aperture[4]	T2.1 to T3.6	T1.9	T1.3
Number of lenses available	9	16	15
Widest/longest focal length (in mm)	18 – 100	9 –180	14– 150

[1] The Compact Primes CP.2 and Ultra Primes contain a number of flare suppressing measures, including the T* lens coating, internal light traps and housing interiors painted with several types of proprietary black paints with different refractive indices. These measures ensure a high contrast image with clearly defined highlights and deep, rich blacks. For the absolute minimum in flares and internal reflections, the Master Primes are equipped with the T*XP lens coating and additional, strategically placed light traps.

[2] Master Primes contain special moving elements (Dual Floating Elements, patent pending) and aspherical lens surfaces to eliminate geometric distortion. This is especially noticeable on wide angle lenses.

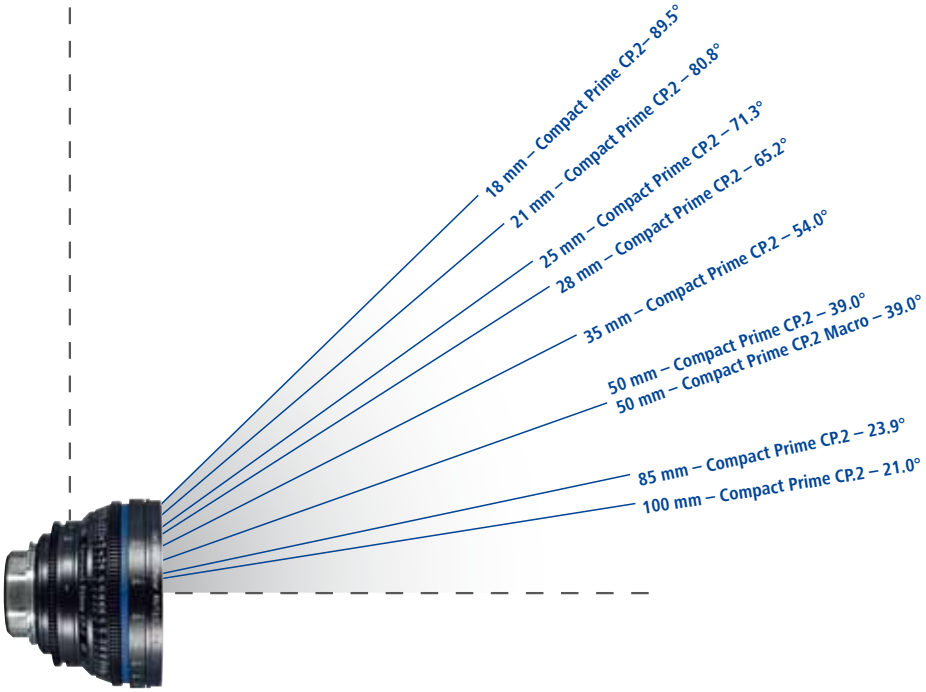
[3] Master Primes contain special moving elements (Dual Floating Elements, patent pending) that virtually eliminate breathing (an unwanted shift in image size when focus is changed).

[4] All Ultra Primes have a widest aperture of T1.9 except for the extreme wide angle lenses: UP8R (T2.8), UP10 (T2.1) and UP12 (T2). All Master Primes have a widest aperture of T1.3 except the Master Macro 100 (T2.0).

Technical Data

Prime Lenses	Type	Aperture	T-Stop	Close focus[1]	Horizontal angle of view			Length[5]	Front diameter	Weight
					Full-Format[3]	ANSI Super 35[2]	Normal 35[4]			
Compact Prime CP.2 18 mm/T3,6	Distagon T*	T 3.6 to T 22	3.6	0.3 m / 12''	89.5°	69°	62.5°	80 mm / 3.15''	114 mm / 4.5"	0.9 kg / 2.0 lbs
Compact Prime CP.2 21 mm/T2,9	Distagon T*	T 2.9 to T 22	2.9	0.24 m / 10''	80.8°	60.9°	54.8°	80 mm / 3.15''	114 mm / 4.5"	1.0 kg / 2.2 lbs
Compact Prime CP.2 25 mm/T2,9	Distagon T*	T 2.9 to T 22	2.9	0.17 m / 7''	71.3°	52.5°	47°	80 mm / 3.15''	114 mm / 4.5"	0.9 kg / 2.0 lbs
Compact Prime CP.2 28 mm/T2,1	Distagon T*	T 2.1 to T 22	2.1	0.24 m / 10''	65.2°	47.4°	42.3°	80 mm / 3.15''	114 mm / 4.5"	1.0 kg / 2.2 lbs
Compact Prime CP.2 35 mm/T2,1	Distagon T*	T 2.1 to T 22	2.1	0.3 m / 12''	54.0°	38.5°	34.3°	80 mm / 3.15''	114 mm / 4.5"	1.0 kg / 2.2 lbs
Compact Prime CP.2 50 mm/T2,1	Planar T*	T 2.1 to T 22	2.1	0.45 m / 18''	39.0°	27.3°	24.2°	80 mm / 3.15''	114 mm / 4.5"	0.9 kg /2.0 lbs
Compact Prime CP.2 85 mm/T2,1	Planar T*	T 2.1 to T 22	2.1	1 m / 3' 3''	23.9	16.7°	14.8°	80 mm / 3.15''	114 mm / 4.5"	0.9 kg / 2.0 lbs
Compact Prime CP.2 100 mm/T2,1	Planar T*	T 2.1 to T 22	2.1	0.7 m / 2'6"	21.0°	14.7°	13.1°	132 mm / 5.19"	114 mm / 4.5"	1.49 kg / 3.3 lbs
Compact Prime CP.2 50 mm/T2,1	Macro-Planar T*	T 2.1 to T 22	2.1	0.24 / 10"	39.0°	27.3°	24.2°	132 mm / 5.19"	134 mm / 5.3"	1.35 kg / 3.0 lbs

[1] Close focus is measured from the film plane. [2] Horizontal angle of view for an ANSI Super 35 Silent camera aperture (aspect ratio 1:1.33, dimensions 18.7 mm x 24.9 mm / 0.980" x 0.7362")
[3] Horizontal angle of view for a full-format camera aperture (aspect ratio 1:1.5, dimensions 24 mm x 36 mm / 0.944" x 1,4173"). [4] Horizontal angle of view for a Normal 35 Academy camera aperture (aspect ratio 1:1.37, dimensions 22 mm x 16 mm / 0.8661" x 0.6299"). [5] Front to PL mount flange



Horizontal Angle of View

Ranging from 18 to 100 mm, the nine focal lengths currently available in the Compact Prime CP.2 series cover all applications from wide angle to telephoto. The graphic shows the horizontal angle of view for full-format of the Compact Primes CP.2 in comparison.

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Subject to change.

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