



LAOWA

NANOMORPH

1.5 X ANAMORPHIC

27mm T2.8 1.5X S35

35mm T2.4 1.5X S35

50mm T2.4 1.5x S35

Amber Version



Blue Version

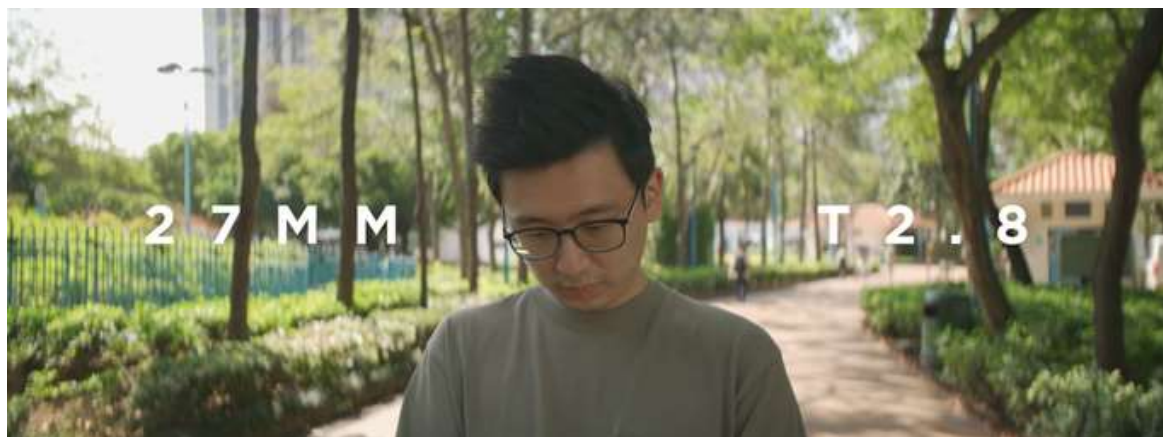


Silver Version

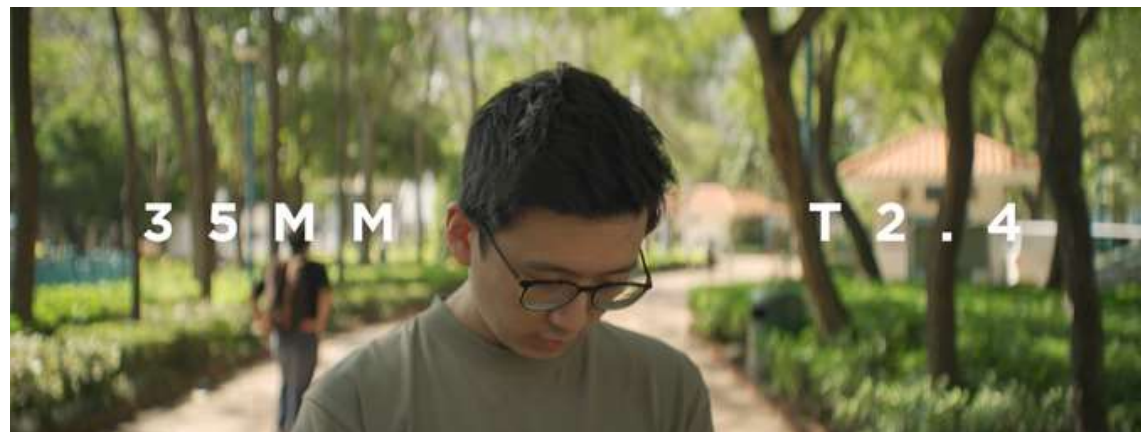


Three focal length available

27mm T2.8



35mm T2.4



50mm T2.4



Specifications (mirrorless)

Name	Nanomorph 27mm T2.8 1.5X S35	Nanomorph 35mm T2.4 1.5X S35	Nanomorph 50mm T2.4 1.5XS35
Focal Length	27mm	35mm	50mm
Format	S35	S35	S35
T-stop range	T2.8-T16	T2.4-T16	T2.4-T16
Lens Structure	15 elements in 13 groups	15 elements in 13 groups	15 elements in 13 groups
Aperture Blades	13 blades	13 blades	13 blades
Min. Focusing Distance	43cm/ 16.9"	60cm/ 23.6"	70cm/ 27.5"
Image Circle	25.6x16mm	25.6x16mm	25.6x16mm
Front Diameter	ø58mm	ø58mm	ø58mm
Filter Thread	ø55mm	ø55mm	ø55mm
Dimension	ø60*90mm (2.36*3.54")	ø60*90mm (2.36*3.54")	ø60*100mm (2.36*3.94")
Weight	~313g/ 0.69lbs	~360g/ 0.79lbs	~390g/ 0.86lbs
AoV (Horizontal)	70.8°	57.5°	42°
AoV (Vertical)	33°	25.8°	18.2°
Mounts	Canon R, Sony E, MFT, DJI DL, Nikon Z, L mount and Fuji X		
Color	Amber, Blue and Silver		
Price	USD 999		
Price (bundle of 3 lenses)	USD 2,699		

Specifications (EF/PL)

Name	Nanomorph 27mm T2.8 1.5X S35	Nanomorph 35mm T2.4 1.5X S35	Nanomorph 50mm T2.4 1.5X S35
Focal Length	27mm	35mm	50mm
Format	S35	S35	S35
T-stop range	T2.8-T16	T2.4-T16	T2.4-T16
Lens Structure	15 elements in 13 groups	15 elements in 13 groups	15 elements in 13 groups
Aperture Blades	13 blades	13 blades	13 blades
Min. Focusing Distance	43cm/ 16.9"	60cm/ 23.6"	70cm/ 27.5"
Image Circle	25.6x16mm	25.6x16mm	25.6x16mm
Front Diameter	TBC	TBC	TBC
Filter Thread	TBC	TBC	TBC
Dimension	TBC	TBC	TBC
Weight	TBC	TBC	TBC
AoV (Horizontal)	70.8°	57.5°	42°
AoV (Vertical)	33°	25.8°	18.2°
Color		Amber, Blue and Silver	
Mounts	PL (Default) + EF		
Price	USD 1,499		
Price (bundle)	USD 3,999		

Why anamorphic?

- The anamorphic allows cinematographers to create a **widescreen image** from a standard recording medium, which gives a more cinematic and unique look to the film.
- You will obtain a 2.4:1 aspect ratio on a 16:9 sensor.
- Some filmmakers would crop the 16:9 to widescreen but it loses pixels.
- Anamorphic lenses also produce some artistic and cinematic characters, including **oval stretched bokeh** and **lateral flare**. It is always used on big budget films.

Why anamorphic?

Spherical Lens (35mm)



<https://www.youtube.com/watch?v=qbKgunG9xJk>

Anamorphic Lens (35mm)



https://www.youtube.com/watch?v=C03J_q-KBxM

What is Nanomorph?

The Laowa Nanomorph series is dedicatedly designed for **Super35 and Micro Four Thirds cameras**. The anamorphic lens is “Nano” as it is extremely super tiny and light. “Morph” indicates to Anamorphic. The range includes 3 different focal lengths - **27mm T2.8, 35mm T2.4, and 50mm T2.4**. It is a front anamorphic design with a **1.5x constant squeeze ratio** at ALL focusing points. **Three flares options are available** - amber, blue & silver, for the use of different film genres and different preferences of videographers and filmmakers. The **short closest focusing distance** also helps render stronger bokeh and create stronger sense of compression.

It is available in **various mounts**: Canon EF/Arri PL, Canon R, Sony E, M43, DJI DL, Nikon Z, L mount and Fuji X.

For the **EL/PL version**, the lens is defaulted with a PL mount and supplied with an Canon EF bayonet.

For the **Mirrorless mount version (Sony E, Fuji X, Canon RF, Nikon Z, L Mount, MFT, DJI DL)**, you can purchase optional bayonets for changing the mount.

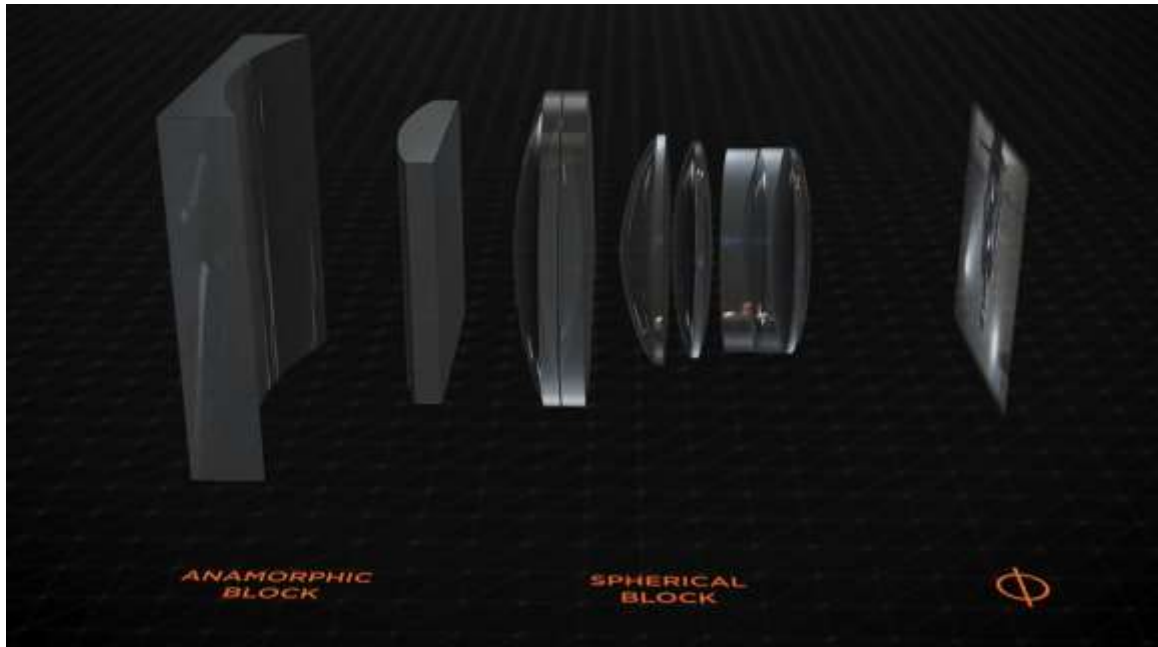


Feature overview

1. Patented anamorphic design
2. Revolutionarily small and compact
3. 1.5x constant squeeze ratio
4. Artistic oval bokeh
5. Amber, blue & silver flare options are available
6. Short closest focusing distance
7. Various mounts are available
8. Professional cine housing

Patented Anamorphic Design

- Anamorphic lenses consist of spherical elements and cylindrical elements.
- In the optics design of some cheaper or DIY anamorphic lenses, cylinders (anamorphic blocks) are added at the front and the spherical blocks are placed at the back for focusing. It is the simplest and cheaper way to design and make anamorphic lenses. However, the squeeze ratio would vary when changing focus which causes unwanted anamorphic mumps i.e. the face of actors gets swollen when focusing close.



Anamorphic mumps

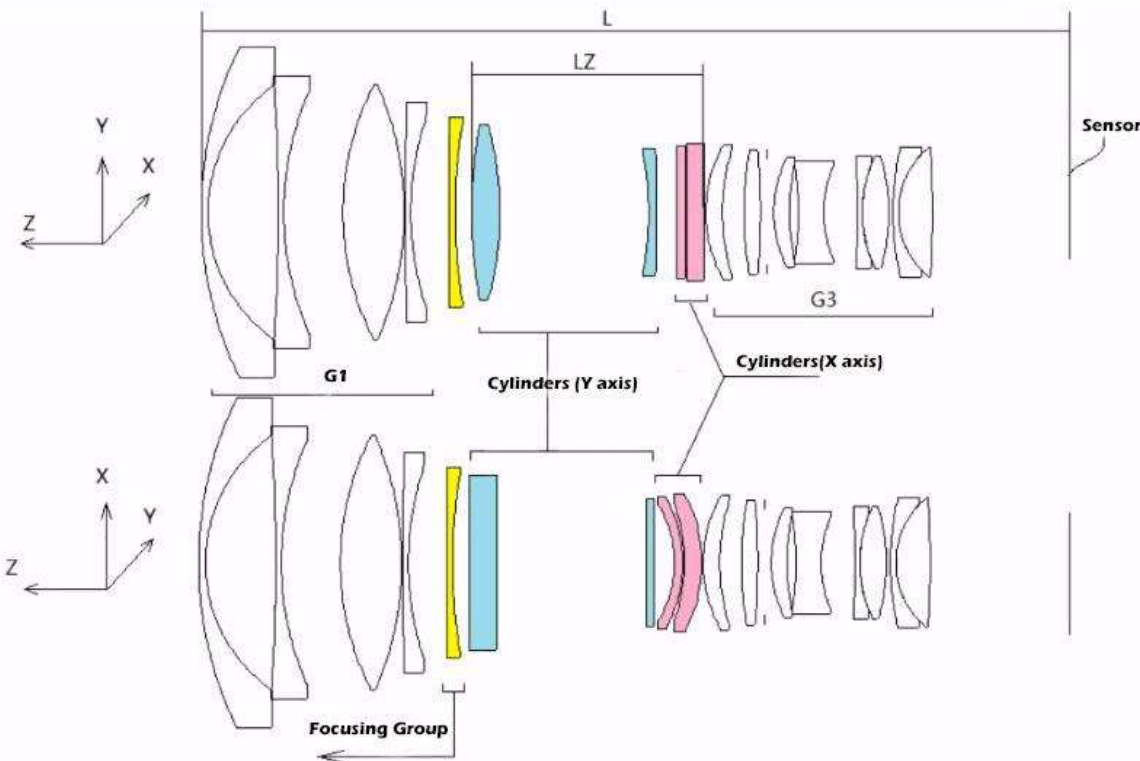


1.33x de-squeeze

the original

Patented Anamorphic Design

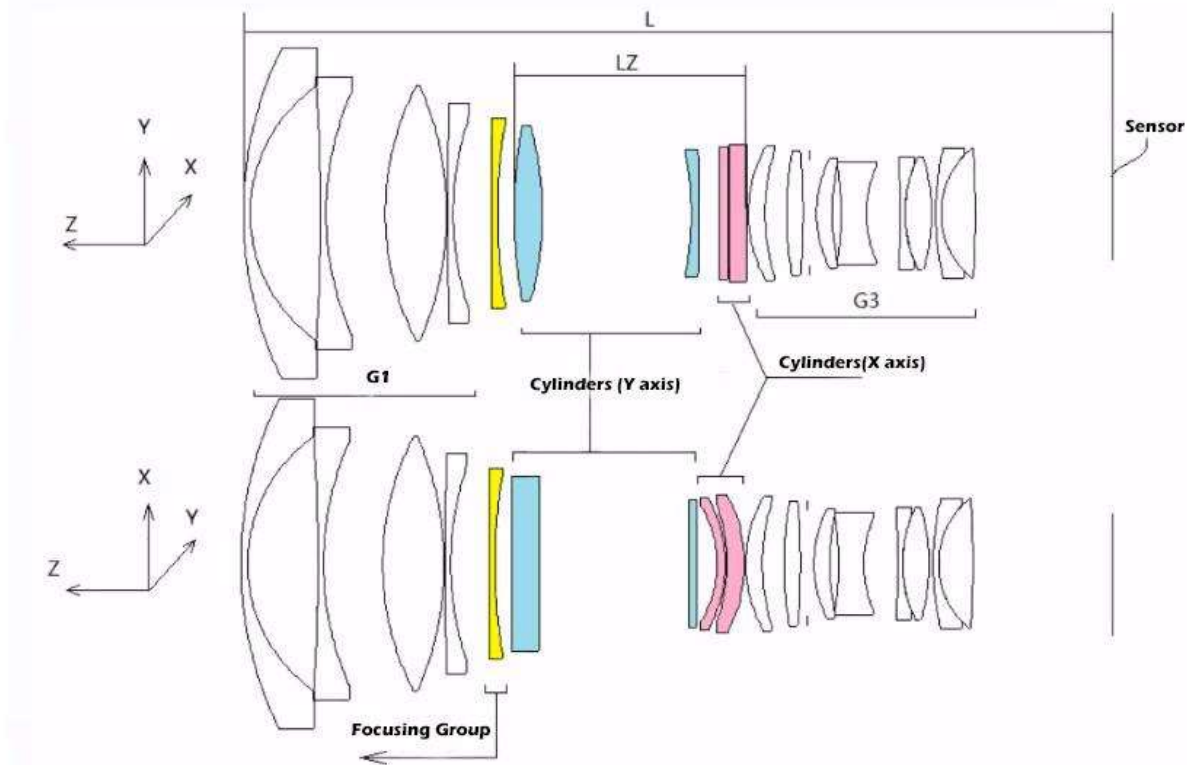
- For more professional anamorphic lenses, it requires higher optics design capability and it always costs enormously. The size of these lenses tends to be cumbersome and super heavy as well.
- In light of these, Laowa introduces its **unique patented anamorphic design** to guarantee uniform squeeze ratio and promising optical quality which solves the struggles of every anamorphic user.



Laowa relocates the groups of lens elements that are arranged in [spherical glasses + focusing system + cylindrical glasses + spherical glasses]. Group 1 and the focusing system compresses the images and hence the smaller cylindrical blocks can be used, which makes the lens tinier and compact. Moreover, the image is formed and focused before the cylindrical blocks. The images projected onto the cylinders remain the same so it can maintain a constant squeeze ratio even if the subject moves closer for closer focus.

Patented Anamorphic Design

The craftsmanship of G1 is of paramount importance as it acts as a complete single lens. It converges the virtual image while suppressing the aberration to the minimum level. Therefore, G1 highly requires meticulous optical design and exquisite craftsmanship as any tolerances will bring aberrations to the real images. Keeping G1 small is the other big challenge.



Revolutionarily light and compact

- It only weighs <400g/14oz each & is 10cm long.
- Very handy for every set-up e.g. handheld, on a gimbal, on a tripod, on a slider, on a camera jib, even on a drone. Not many anamorphic lenses can be lifted on drones as there is a strict limitation on weight.



Revolutionarily light and compact



Constant 1.5x squeeze ratio

- It avoids **anamorphic mumps** which saves much time on the correction.

50mm 1.33x lens from other brand
@ 0.8m

Nanomorph 50mm 1.5x lens
@ 0.8m



Constant 1.5x squeeze ratio

- 1.5x squeeze renders bokeh of more sketched



Constant 1.5x squeeze ratio

- A 1.5x squeeze ratio is the perfect balance between the size and anamorphic intensity. With a 1.5x squeeze ratio, you will have a 2.66:1 on a 16:9 sensor after de-squeeze. There is a bit room for you to crop into 2.4:1 widescreen ratio. However, a 1.8x or 2x would become 3.2:1 and 3.5:1 which need more crop to 2.4:1. Some image will be wasted.



Artistic oval bokeh

- A 1.5x squeeze ratio also renders oval bokeh which gives an artistic touch to the image. It also creates a blurry and creamy background that pops out the subject.



More flare options available

- Traditional blue flare is common in the market. It is suitable for sci-fi and cool vibes movies.
- But not every film matches the blue flares.
- Laowa is providing another amber option to users.
- Amber flare version is good for narrative and warm vibes but it is rarely found in the market especially at this affordable price point.



Silver Version

- Compared to a more common blue flare, the silver version is a neutral-colored flare that provides more control over the flare color.
- The silver version flare would change flare color according to the light source. The flare would also be relatively subtler and less distracting.
- Cinematographers can now get the perfect look for different types of productions.



Demo footage: <https://www.youtube.com/watch?v=PZet2BNLN60>

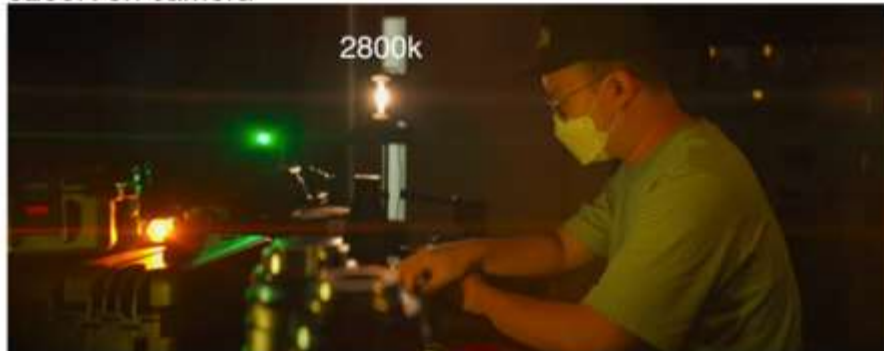
Silver Version



3200K on camera



3200K on camera



6500K on camera

Blue Version



3200K on camera



3200K on camera



6500K on camera

Short focusing distance

- The closest focusing distance is shortened so users could create closer shots. It renders shallower depth of field so the sense of compression will be stronger. The bokeh will be more oval.

Nanomorph 27mm T2.8 1.5x S35 - 43cm/ 16.9"

Nanomorph 35mm T2.4 1.5x S35 - 60cm/ 23.6"

Nanomorph 50mm T2.4 1.5x S35 - 70cm/ 27.5"



Various mounts available

- Various mounts are available for different cinema cameras at different levels:
 - PL mount, Canon EF, Sony E, MFT, DJI DL, Nikon Z, L mount, Fuji X
- The affordable anamorphic lens in Canon EF and Arri PL mount is rarely found in the market so Laowa offers cheaper options to filmmakers.
- For the **EL/PL version**, the lens is defaulted with a PL mount and supplied with an Canon EF bayonet.
- For the **Mirrorless mount version (Sony E, Fuji X, Canon RF, Nikon Z, L Mount, MFT, DJI DL)**, you can purchase optional bayonets for changing the mount.



Professional Cine Housing



- **Unified gear position**

The unified gear position allows users to switch lenses quickly and without readjustment on the focus gear.

- **55mm filter thread for screw-in filters**

55mm filters can be attached directly on the lens which filmmakers can combo a handy set-ups. It is favorable when doing a Run-And-Gun shot or flying it with a drone.

Professional Cine Housing



- **Dual Scale**

Both imperial and metric scale are printed on the lens body.

- **0.8 mod gear**

Industry standard 0.8 mod gear is installed on both aperture and focus rings.

Professional Cine Housing



- **Flange Back Adjustment**
It allows users to adjust the back focus easily.

Competitors (Sirui)



Name	Nanomorph 27mm T2.8 1.5X S35	Sirui 24mm f2.8 1.33x	Nanomorph 35mm T2.4 1.5X S35	SIRUI 35mm F1.8 1.33x	Nanomorph 50mm T2.4 1.5X S35	Sirui 50mm F1.8 1.33x
Focal Length	27mm	24mm	35mm	35mm	50mm	50mm
Format	S35	APS-C	S35	MFT	S35	APS-C
T-stop range	T2.8-T16	F2.8-16	T2.4-T16	F1.8-16	T2.4-T16	F1.8-16
Lens Structure	15 elements in 13 groups	13 elements in 10 groups	15 elements in 13 groups	13 elements in 9 groups	15 elements in 13 groups	11 elements in 8 groups
Aperture Blades	13 blades	8 blades	13 blades	10 blades	13 blades	10 blades
Min. Focusing Distance	43cm/ 16.9"	60cm/ 23.6"	60cm/ 23.6"	85cm/ 33.4"	70cm/ 27.5"	85cm/ 33.4"
Image Circle	25.6x16mm	NA	25.6x16mm	NA	25.6x16mm	NA
Front Diameter	ø58mm	ø74mm	ø58mm	ø71mm	ø58mm	ø69.2mm
Filter Thread	ø55mm	ø72mm	ø55mm	ø67mm	ø55mm	ø67mm
Dimension	ø60mm*90mm	NA	ø60mm*90mm	NA	ø60mm*100mm	NA
Weight	~313g/ 0.69lbs	770~810g / 1.7~1.79lbs	~360g/ 0.79lbs	700g/ 1.55lbs	~390g/ 0.86lbs	560g/1.23lbs
Angle of View (Horizontal)	70.8°	70.7°	57.5°	51.9°	42°	37.6°
Angle of View (Vertical)	33°	36.9°	25.8°	25.8°	18.2°	18.2°
Mounts	Canon R, Sony E, MFT, DJI DL, Nikon Z, L mount and Fuji X	Canon EF-M/ Sony E/ Fuji X/ M43	Canon R, Sony E, MFT, DJI DL, Nikon Z, L mount and Fuji X	Canon EF-M//Sony E/ Nikon Z/ MFT	Canon R, Sony E, MFT, DJI DL, Nikon Z, L mount and Fuji X	Fuji X/ Sony E/ M43
Price	USD999	USD999	USD999	USD799	USD999	USD699
Price (bundle)	USD2,699	NA	USD2,699	NA	USD2,699	NA

Competitors



Name	VAZEN 28MM T2.2 1.8X ANAMORPHIC LENS	VAZEN 40MM T2 1.8X ANAMORPHIC LENS
Focal Length	28mm	40mm
Format	S35	S35
T-stop range	T2.2-16	T2.3-T22
Lens Structure	NA	NA
Aperture Blades	NA	NA
Min. Focusing Distance	82cm/ 32.2"	82cm/ 32.2"
Image Circle	NA	NA
Front Diameter	80mm	95mm
Filter Thread	77mm	/
Dimension	ø80 x 107mm (3.2x4.2")	ø110 x 175mm (4.33x6.89")
Weight	0.72kg / 1.59 lbs	1.8kg / 3.97lbs
Angle of View (Horizontal)	78.9 °	59.9 °
Angle of View (Vertical)	31.9 °	22.6 °
Mounts	Canon RF/ MFT	Canon RF/ MFT
Price	USD3,250	USD3,250– 3,300

Competitors (EF/PL)



Name	Nanomorph 27mm T2.8 1.5X S35	Nanomorph 35mm T2.4 1.5X S35	Nanomorph 50mm T2.4 1.5X S35	LOMO ILLUMINA 25mm 1.33x	LOMO ILLUMINA 35mm 1.33x	LOMO ILLUMINA 50mm 1.33x
Focal Length	27mm	35mm	50mm	25mm	35mm	50mm
Format	S35	S35	S35	S35	S35	S35
T-stop range	T2.8-T16	T2.4-T16	T2.4-T16	T1.3-22	T1.3-22	T1.3-22
Lens Structure	15 elements in 13 groups	15 elements in 13 groups	15 elements in 13 groups	NA	NA	NA
Aperture Blades	13 blades	13 blades	13 blades	NA	NA	NA
Min. Focusing Distance	43cm/ 16.9"	60cm/ 23.6"	70cm/ 27.5"	30cm/ 11.8"	35cm/ 13.7"	60cm/ 23.6"
Image Circle	25.6x16mm	25.6x16mm	25.6x16mm	NA	NA	NA
Front Diameter	Ø80mm	Ø80mm	Ø80mm	95mm	95mm	95mm
Filter Thread	Ø77mm	Ø77mm	Ø77mm	4" x 4"	4" x 4"	4" x 4"
Dimension	TBC	TBC	TBC	ø95*138mm (3.74*5.43")	ø95*133mm(3.74*5.23")	ø95*129mm (3.74*5.07")
Weight	TBC	TBC	TBC	2kg / 4.40lbs	1.8kg/ 3.96lbs	1.6kg / 3.52lbs
AoV (Horizontal)	70.8°	57.5°	42°	68.5°	51.9°	37.6°
AoV (Vertical)	33°	25.8°	18.2°	35.5°	25.8°	18.2°
Mounts	PL (Default) + EF			PL	PL	PL
Price	USD1,499			Rental: USD450	Rental: USD450	Rental: USD450
Price (bundle)	USD3,999			NA	NA	NA

Competitors (EF/PL)



Name	Cooke 25mm T2.3 2x	Cooke 32mm T2.3 2x	Cooke 50mm T2.3 2x
Focal Length	25mm	50mm	50mm
Format	S35	S35	S35
T-stop range	F2.3-22	T2.3-T22	T2.3-T22
Lens Structure	NA	NA	NA
Aperture Blades	NA	NA	NA
Min. Focusing Distance	33"/ 84cm	33"/ 84cm	33"/ 84cm
Image Circle	NA	NA	NA
Front Diameter	136 mm / 5.35 "	110 mm/ 4.33"	110 mm/ 4.33"
Filter Thread	/	/	/
Dimension	ø136*203mm (5.35*8")	ø110*195mm (4.33*7.68")	ø110*195mm (4.33*7.68")
Weight	4.2 kg / 9.26 lbs	3.2 kg /7.1 lbs	3.6 kg /7.9 lbs
AOV (Horizontal)	91.4°	77.3°	54.2°
AOV (Vertical)	35.5°	28.1°	18.2°
Mounts	PL	PL	PL
Price	USD29,900	USD29,900	USD29,900

Sample photos (35mm prototype)



Sample photos (35mm prototype)



Sample photos (27mm prototype)



Sample photos (27mm prototype)



Sample photos (27mm prototype)



Sample photos (27mm prototype)



Sample photos (50mm prototype)



Sample photos (35mm prototype)



Sample photos (50mm prototype)



Sample photos (50mm prototype)



Sample photos (50mm prototype)



Sample photos (35mm prototype)



Sample photos (27mm prototype)

