

New Angénieux Optimo Ultra 12x: Full Frame, U35, S35

Full Frame 36-435mm T4.2 - 46.3mm Ø

for Full Frame/VV Cameras: New Sony FF, RED 8K VV, Panavision Millennium DXL, ARRI Alexa 65 cropped to FF



U35 26-320mm T3.1 - 34.6mm Ø

for "Super35Plus" Cameras, ARRI Open Gate, RED 6K Dragon, RED Helium 8K



S35 24-290mm T2.8 31.1mm Ø

for all Super35 cameras



Ingenious Angénieux Optimo Ultra 12x



The next-generation Angénieux Optimo Ultra 12x is a high-end, multi-format zoom with interchangeable modules to cover sensor sizes from Full Frame 24x36 and RED 8K VV to U35 and S35. It is the venerable Optimo 24-290 reference redefined, the zoom lens that accompanied almost every major motion picture production since it was introduced in September 2001.

Now, sixteen years later, the new Optimo Ultra 12x Zoom refreshes the industry benchmark with a completely new design, even better optics and more rugged mechanics. The classic Angénieux cinematic look continues with smooth skin tones and a pleasing balance between contrast and resolution.

The big news involves bigger pictures. With Angénieux's IRO (Interchangeable Rear Optics) technology, the Optimo Ultra covers many formats: Full Frame/VV, Ultra35 (Super35Plus) and Super35. Versatility is achieved by swapping the rear group and lens barrels of the base lens, which is the Angénieux Optimo Ultra 12x 24-290. It is configured for S35 format out of the box. Also in the box is the U35 (S35+) rear group with dedicated focus, iris and zoom barrels.

The FF / VV rear group and lens barrels are purchased as an additional extra. But, with new FF cameras here now or coming soon, skipping this option would be like racing a Formula 1 car with Go-Kart tires.

Changing formats is as simple as unscrewing the rear assembly, swapping the focus, iris and zoom rings, and attaching the new rear group. It is a quick and easy task for rental houses and service facilities. Rings and rear groups are calibrated and optimized for each specific lens, with the same serial number on each component. In this way, focus marks remain consistent and re-shimming should not be necessary.

How does the new Optimo Ultra 12x in its basic S35 configuration compare with the venerable Angénieux 24-290? The Optimo Ultra covers a larger image circle: 31.1 vs 30 mm. Maximum aperture is the same, T2.8—as is the 162mm front diameter and close focus of 4 feet. At 472mm long, the Ultra 12x is only 32mm (1.3") longer than its predecessor.

The ingenious format flexibility of the Optimo Ultra offers rental houses and owners a wide choice of formats, focal lengths and apertures in one lens with three sets of rear groups and barrels.

Three Formats

- **S35 24-290mm T2.8 - 31.1mm Ø**
All S35 cameras
- **U35 (Super35Plus) 26-320mm T3.1 - 34.6mm Ø**
ARRI Open Gate / 6K RED Dragon, RED Helium 8K
- **Full Frame FF/VV 36-435mm T4.2 - 46.3mm Ø**
for Sony's new Full Frame camera, RED 8K VV, Panavision Millennium DXL (8K VV), ARRI Alexa 65 cropped to FF.

Optical Design

- New optical design to enable Full Frame and VV coverage
- Up to 200 LPM resolution. (40 LPM = 4K; 80 LPM = 8K)
- Superb image quality. No ramping of aperture
- Minimal breathing of focus. Fast maximum aperture
- IRO Interchangeable Rear Optics
- Aspheric elements minimize color fringing and distortion
- Short MOD (Minimum Object Distance - Close Focus)

Mechanical Design

- Completely updated design from the 24-290 and 28-340
- Improved durability with special anti-abrasion coating
- Easier to service
- Weight reduction of moving components using new materials
- Improved resistance to moisture and dust (with dust traps)
- Precise, assistant-friendly focus ring with 321 degrees of rotation and more than 70 focus marks
- User changeable focus barrels by rental houses and service facilities—focus scales available in Imperial or Metric
- Passive thermal compensation from -20°C to +40°C means focus marks remain accurate in extreme weather conditions and the zoom stays smooth even in very cold climates
- Universal thread accepts many different lens mounts

Lens Mounts

- Comes with PL mount standard
- Additional lens mounts to come in the future

Angénieux Optimo Ultra 12x, cont'd

S35 Basic Lens and U35 Kit

Out of the box basic set includes one **S35 Optimo Ultra 12x Zoom** as well as the **U35 Kit** with Rear Group, Iris, Zoom and Focus Barrel



Carrying handle is an optional accessory

S35 Components



S35 24-290 T2.8 includes these components (above): Rear Group, Iris, Zoom and Focus Barrel. Remove to make way for the U35 Kit (below).

U35 Kit



U35 26-320 T3.1 Kit: Rear Group, Iris, Zoom and Focus Barrel

FF and VV Kit

Optional (Essential!)

The Full Frame / VV Kit—with Rear Group, Iris, Zoom and Focus Barrel—must be ordered with S35 + U35 Ensemble

Serial numbers must match to ensure consistent calibration and focus mark accuracy.

FF/VV Kit



FF/VV 36-435mm T4.2 Kit: Rear Group, Iris, Zoom and Focus Barrel

Accessories

- Screw-in Front Protective Glass Optical Flat
- Carrying Handle
- Angénieux's existing 1.4x and 2x Extenders are compatible with the S35 version, but not with the U35 and FF/VV versions of the Optimo Ultra 12x Zoom

1.4x and 2x Extenders



Carrying Handle



Angénieux Optimo Ultra 12x Zoom Specs

| Lens Configuration | 24-290mm T2.8 | 26-320mm T3.1 | 36-435mm T4.2 |
|---------------------|---------------|---------------|---------------|
| Format | S35 | U35 (S35+) | FF / VV |
| Focal length (mm) | 24-290 | 26-320 | 36-435 |
| Aperture | T2.8-22 | T3.1-22 | T4.2-22 |
| Image Circle (mm) | Ø 31.1 | Ø 34.6 | Ø 46.3 |
| Iris Blades | 9 | 9 | 9 |
| Front diameter (mm) | 162 | 162 | 162 |
| Length (mm) | 472mm | 481mm | 523mm |
| Length (inches) | 18.6" | 18.9" | 20.6" |
| MOD (meters) | 1.22 m | 1.24m | ≤1.35m |
| MOD (inches) | 4' | 4'1" | ≤5' |
| Weight (kg) | 12.6 kg | 12.75 kg | 12.75 kg |
| Weight (lb) | 27.7 lb | 28.1 lb | 28.1 lb |