

# angénieux



28-70mm f/2.6, WITH U.V. FILTER, LENS HOOD FOR 28mm, in NIKON AF mount  
(MINOLTA AF mount and CANON AF mount available later)

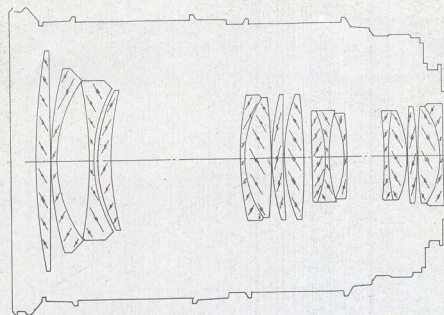
ANGÉNIEUX PRECISION GROUND LENSES OF FINEST OPTICAL QUALITY  
THE RESULT OF 55 YEARS OF CONTINUOUS DEVELOPMENT AND LENS MAKING EXPERTISE  
OFFERING YOU OUTSTANDING PERFORMANCE



**UNIQUE, SOPHISTICATED ANGENIEUX DESIGN COMBINES VERY WELL BALANCED CHROMATISM WITH MAXIMAL 99.8% LIGHT TRANSMISSION PER MULTI-COATED GLASS SURFACE—PLUS MULTI-COATED U.V. FILTER**

### Cross Section : 28,70 F : 2,6 AF

Position of elements at infinity.



### Description. 28-70 f : 2,6 AF

Focal length	28 to 70 mm
Maximum aperture	2.6
Minimum aperture	22
Optical construction	16 elements, 4 groups
Coating	Multi-coated
Minimum focusing distance	0,65 m / 26 inches
Front filter thread	77 mm
Length	111 mm
Weight	660 g

### The masterpiece of technology

High precision is an essential factor in the manufacture of a perfect zoom-lens. Thanks to a laser system, the mount of Angenieux zoom-lenses is assembled to two thousand of a millimetre, the greatest accuracy. As pioneer of zooms, Angenieux is well-known for its famous realisations for photo, motion picture and video professional.

### New zoom 28-70 mm f / 2,6 Autofocus

The new zoom 28-70 Autofocus gives a large focal range which makes it an ideal lens for every day photographic work : landscape, portrait, reporting.

### An optical quality close of perfection

Angenieux manufactures this zoom according to 3 technological principles, which guarantee an outstanding performance, sophisticated optical construction, high quality lens elements and performance of the multi-coating. This process is applied on each surface, brings very well balanced chromatism, 99.8% light transmission rate per face, high definition and brightness thanks to the constant f/2.6 aperture.

### UV filters

Multi-coated : it eliminates any harmful UV rays.

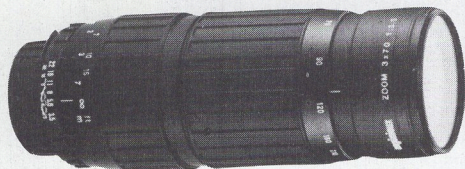
### A high mechanical reliability

The alloy of aluminium, magnesium as well as the laser Assembly, give to the 28-70 AF zoom a high mechanical reliability and fine precision for the focus thanks to the two separate rings.

### The highest optical quality associated with the masterpiece of autofocus technology

The exceptional optical quality, together with rapidity and precision of the Autofocus, offers new possibilities to photographers who have the latest AF cameras bodies.

The 28-70 f / 2,6 can be comfortably used in manual mode thanks to the 2 separate rings.



**70-210mm f/3.5**  
(In CANON FD, CONTAX, LEICA R mount)

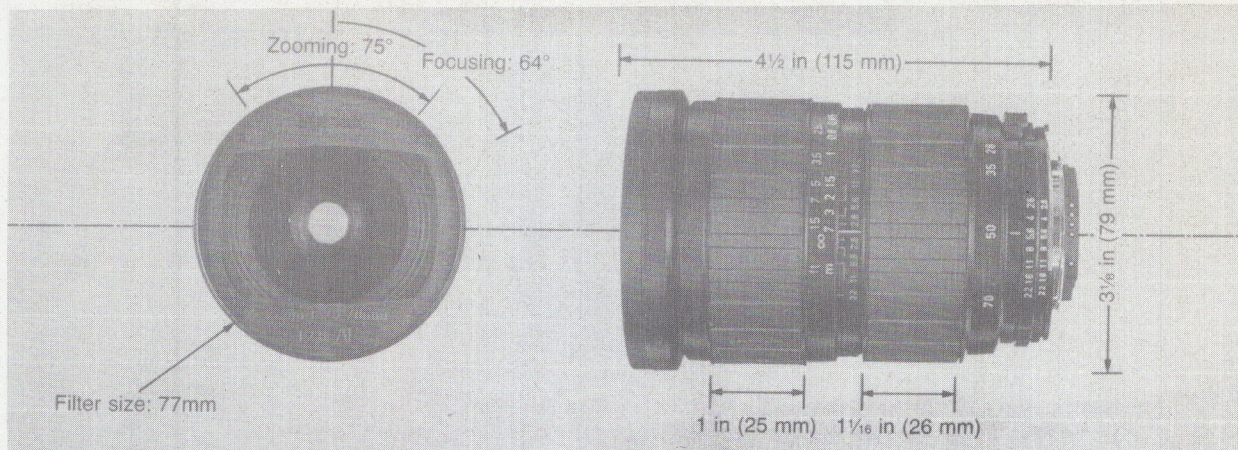


**180mm f/2.3 APOCHROMAT**  
**200mm f/2.8**  
BOTH WITH DIFFERENTIAL ELEMENT MOVEMENT (DEM)  
(IN CANON FD, CONTAX, LEICA R, NIKON MOUNT)



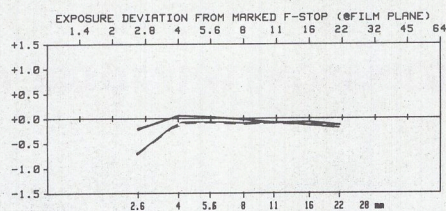
**ANGENIEUX LASER-ASSEMBLED, COMPACT, LIGHTWEIGHT, YET SOLID ALL-METAL CONSTRUCTION—BUILT TO INCREDIBLY PRECISE TOLERANCES OF 0.002MM—FOR INTERNAL ZOOMING, AUTO OR MANUAL FOCUSING**





## SPECIFICATIONS: (tested values in *italics*)

Focal length: 28-70mm (28.37-66.51mm)  
Maximum aperture: f/2.6 (f/2.47-2.88)  
Construction: 16 elements in 4 groups  
View angle: Diag 75°-34°, Horiz 65°-29°, Vert 46°-19°  
Minimum aperture: f/22  
Click stops: Full stops from f/2.6 to f/22  
Number of blades: 8  
Scales: Focusing in feet (yellow) and meters (white). Focal lengths marked at 28-, 35-, 50-, and 70mm.  
Zooming: 75° counterclockwise to 70mm  
Focusing: 64° clockwise from infinity to close focus, 1 ft 1 1/16 in (0.65 m)  
Weight: 1 lb 9 1/16 oz (722 g)



Exposure at film plane is accurate at 28mm, 1/2-stop underexposure may occur at 70mm at f/2.6. Negligible difference between infinity and closest focus.

**Distortion:** @ 28mm, 2.1% barrel; @ 35mm, 0.8% pincushion; @ 70mm, 2.0% pincushion.  
**Lateral color:** Very slight at 28mm. Negligible at longer focal lengths.

## Subjective Quality Factor

@ 28mm

MAG	4	5	6	8	12	17	22
Size	3.5x5	4x6	5x7	8x10	11x14	16x20	20x24
2.6	98.2	97.2	96.0	93.0	85.4	74.0	62.4
4.0	98.7	98.0	97.1	95.0	89.2	80.2	70.4
5.6	99.1	98.6	98.0	96.5	92.4	85.7	77.9
8.0	99.1	98.7	98.1	96.7	92.8	86.3	78.8
11.0	99.2	98.7	98.1	96.7	92.8	86.4	78.9
16.0	99.0	98.5	97.9	96.3	92.0	84.9	76.8
22.0	98.7	98.0	97.1	94.9	89.1	80.1	70.1

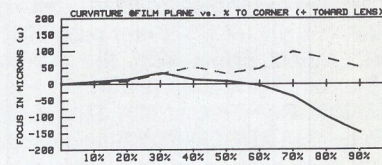
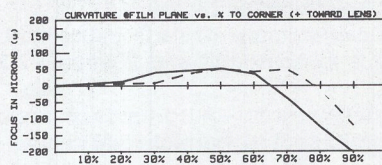
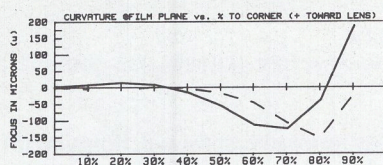
@ 50mm

MAG	4	5	6	8	12	17	22
Size	3.5x5	4x6	5x7	8x10	11x14	16x20	20x24
2.6	96.9	95.3	93.3	88.6	77.1	61.9	48.2
4.0	98.5	97.7	96.7	94.3	87.9	78.0	67.4
5.6	99.4	99.0	98.6	97.5	94.8	89.6	83.6
8.0	99.5	99.2	98.9	98.0	95.7	91.6	86.6
11.0	99.5	99.3	99.0	98.2	95.9	92.1	87.4
16.0	99.3	98.9	98.5	97.3	94.2	88.9	82.5
22.0	98.8	98.2	97.4	95.4	90.1	81.7	72.3

@ 70mm

MAG	4	5	6	8	12	17	22
Size	3.5x5	4x6	5x7	8x10	11x14	16x20	20x24
2.6	98.4	97.5	96.5	93.9	87.1	76.7	65.8
4.0	98.5	97.7	96.7	94.2	87.7	77.7	67.4
5.6	98.7	98.0	97.1	95.0	89.2	80.2	70.4
8.0	98.9	98.3	97.6	95.8	90.9	83.1	74.3
11.0	99.1	98.6	98.0	96.5	92.5	85.8	78.1
16.0	99.1	98.6	98.0	96.6	92.6	86.0	78.3
22.0	98.7	98.1	97.2	95.1	89.6	80.9	71.2

KEY: A+ A B+ B C+ F



———— Tangential - - - - - Sagittal

**Hands on:** Largish, somewhat heavy, but well balanced for wide-aperture zoom. Focusing ring sufficiently wide and grippable for manual focus, but mechanism feels loose, not well damped. Zoom ring is wide and comfortable, smooth, and well damped. Nonrotating front ring with built-in shade.  
**In the lab:** Image quality of superior zoom at extreme focal lengths and comparable to fixed focal length lens near 50mm setting. Average distortion and excellent color correction.

**In the field:** Well-exposed test slides were outstandingly crisp from center to corner at all apertures and focal lengths. Flare was very well controlled at short and middle focal lengths, but very slight flare was seen at 70mm. Falloff was well controlled by f/5.6 and at smaller apertures. Some distortion visible at extreme focal lengths.

**Conclusion:** Excellent image quality with good handling at a premium price. Wide maximum aperture is useful, especially in AF modes.

### Macro/Close-Focusing

**Max MAG:**

1:19.5 @ 28mm (1 ft 6 in [0.48 m] to lens)  
1:8 @ 70mm (1 ft 6 in [0.48 m] to lens)

**@ 28mm:** Above-average sharpness, details across field are even from f/8. Very little barrel distortion.

**@ 70mm:** Sharpness well above average from f/5.6 to f/22. Noticeable pincushion distortion.



**YOU ARE COVERED BY OUR FULL WARRANTY BUYER PROTECTION FOR LIFE—PLUS REINCARNATIONS—  
AND A ONE-YEAR WORLDWIDE INSURANCE BY THE ANGENIEUX FACTORY AGAINST DAMAGES, THEFT AND LOSS**



**8 x 24 Ultra modern design Binoculars lightweight, compact, yet solid, hermetically sealed  
rubber shielded, multi-coated, with U.V. filter protection, focusing from infinity to 8 ft.**

## **20 EXCLUSIVE REASONS WHY TO USE ANGENIEUX LENSES AND BINOCULARS**

1. ANGENIEUX Limited Precision Production—the result of 55 years of continuous development and lensmaking expertise—offers you the very finest in optical quality.
2. Each lens is precision ground according to the same top quality design parameters, as used for the world famous ANGENIEUX professional motion picture and video lenses.
3. Specially selected finest optical glass with highest refractive power, and extra low dispersion index (ED) renders maximal light transmission of 99.8% per surface.
4. Very well balanced chromatism combined with multi-layered coating of each glass surface provides strikingly brilliant overall luminosity and absolutely precise color fidelity.
5. Highest resolving power, exceeding 100 lines per millimeter at full aperture, provides minute details up to the extreme corners, for critical sharpness without distortion.
6. Laser-assembled, compact, lightweight, yet stress proof, durable all-metal construction—literally custom-built to order—with incredibly precise tolerances of 0.002mm.
7. Internal focusing and zooming—once focused, zoom lens stays in focus over entire range.
8. 2 wide, smoothly moving focusing and zooming rings—plus diaphragm ring, which can be locked for programming, offer utmost ease of operation.
9. Wide aperture remains constant over entire zoom range, for optimal brightness.
10. Built-in rectangular lenshood for 35–70mm—plus lenshood for 28mm.
11. Multi-coated ANGENIEUX U.V. Filter protects front element, maintains finest optical quality.
12. Like the ANGENIEUX Zoom lens, the 180mm f/2.3 Apochromat and 200mm f/2.8 wide aperture lenses also provide exclusive Differential Element Movement (DEM).
13. Choice of CANON, CONTAX, LEICA, MINOLTA, NIKON mounts—Auto-focus or Manual.
14. Ultra modern design ANGENIEUX binoculars are multi-coated, hermetically sealed, rubber shielded, compact, lightweight, yet very solid, with U.V. filter protection, focus down to 8 ft.
15. Uncompromisingly solid, virtually indestructible ANGENIEUX lenses and binoculars withstand utmost wear and tear, shock, rugged use, temperature changes, for lifelong durability.
16. Each ANGENIEUX lens, binocular is built to the most rigid European Precision Standards.
17. Each ANGENIEUX lens and binocular passes the most scrupulous, 100% Quality Controls.
18. Each ANGENIEUX lens is individually tested by Modulation Transfer Function (MTF), comes with a certificate that it conforms to the most demanding factory specifications.
19. Each ANGENIEUX lens and binocular is covered with a One-Year Worldwide Insurance by the ANGENIEUX factory, against damages, theft and loss.
20. YOU ARE COVERED BY OUR FULL WARRANTY BUYER PROTECTION FOR LIFE—PLUS REINCARNATIONS.



**angenieux** 55  
YEARS

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FULL WARRANTY FOR LIFE—PLUS REINCARNATIONS**