

## Ultra Wide Zoom UWZ 9.5-18

The new ARRI Ultra Wide Zoom UWZ 9.5-18/T2.9 is the first super wide-angle zoom lens for the professional cine market. With an unusually accommodating image circle of 34.5 mm, the UWZ has been designed for both existing and future generations of large-sensor digital cameras, incorporating patented, cutting-edge lens technologies that overcome known problems with previous wide-angle zooms. The optical performance of this new telecentric design is comparable to, or even exceeds, that of high-end wide-angle prime lenses. For maximum flexibility and cost efficiency on set, the UWZ can easily replace a complete range of wide-angle primes.

Optimized for the requirements of VFX applications, the UWZ is ideal for plate shots or any other situation where maximum image quality is vital. Distortion is at a level of less than 1% at 9.5 mm and less than 0.1% at 18 mm, which means that straight lines stay straight, even at close focus. Due to a new multilayer, anti-reflective coating, flare and veiling glare are reduced to an absolute minimum. The near telecentric optical design means that the UWZ has a highly uniform field illumination, from the center to the very corners of the image. Built-in ARRI Lens Data System (LDS) functionality provides precise lens metadata for zoom, focus and aperture settings, smoothing postproduction workflows.

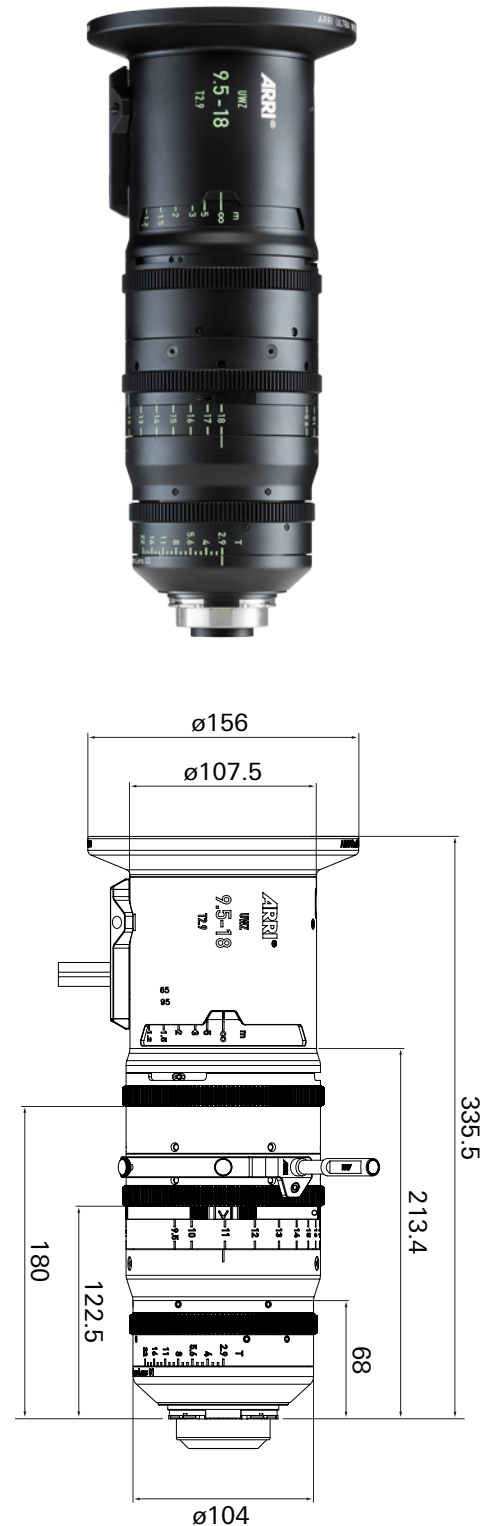
### Main Features

- Future-proof image circle of 34.5 mm for large sensor cameras
- Zoom index marker
- Very low image distortion, even at 9.5 mm
- Virtually no image breathing
- Uniform field illumination, even at close focus
- Fixed entrance pupil position over the entire zoom range
- Built-in lens support
- LDS for lens metadata in VFX applications
- Exchangeable matte box interfaces (dia. 134 mm and 156 mm)
- Matches other ARRI/FUJINON and ARRI/ZEISS lenses
- Available in ARRI PL-LDS or Canon EF mount

### Technical Details

Lens Mount <sup>(1)</sup>	PL LDS
Aperture	T2.9 - T22
Close Focus <sup>(2)</sup>	0.55 m / 21.654"
Magnification Ratio <sup>(3)</sup>	1:10.7
Length <sup>(4)</sup>	335.5 mm / 13.209"
Length including flange focal distance <sup>(5)</sup>	387.5 mm / 15.256"
Front Diameter <sup>(6)</sup>	134 mm / 5.276" or 156 mm / 6.142"
Max. diameter excluding front and gear	112 mm / 4.409"
Weight (kg)	4.8
Weight (lbs)	10.6
180° optical image rotation	

<sup>(x)</sup> For abbreviations please see legend at end of document



## Ultra Wide Zoom UWZ 9.5-18

### Angle of View V-H-D

						Entrance pupil position <sup>(7)</sup>
<b>Camera</b>	<b>ALEXA HD</b>	<b>Normal 35</b>	<b>DIN Super 35</b>	<b>ANSI Super 35</b>	<b>ALEXA Open Gate</b>	
<b>Sensor size (mm)</b>	23.76 x 13.37	22 x 16	24 x 18	24.9 x 18.7	28.17 x 18.13	
<b>Image circle (mm)</b>	27.26	27.20	30.00	31.14	33.50	
<b>Focal length 9.5 mm <sup>(8)</sup></b>	V=70.3° H=103.0° D=110.6°	V=80.3° H=98.6° D=110.5°	V=87.0° H=103.5° D=115.7°	V=89.2° H=105.6° D=117.6°	V=87.4° H=112.4° D=121.2°	310.4 mm / 12.22"
<b>Focal length 12 mm <sup>(8)</sup></b>	V=58.3° H=89.5° D=97.4°	V=67.4° H=85.1° D=97.3°	V=73.8° H=90.1° D=102.9°	V=75.9° H=92.2° D=105.0°	V=74.2° H=99.3° D=109.0°	309.9 mm / 12.20"
<b>Focal length 14 mm <sup>(8)</sup></b>	V=51.1° H=80.6° D=88.5°	V=59.5° H=76.3° D=88.3°	V=65.5° H=81.2° D=94.0°	V=67.5° H=83.3° D=96.1°	V=65.8° H=90.3° D=100.3°	309.4 mm / 12.18"
<b>Focal length 16 mm <sup>(8)</sup></b>	V=45.3° H=73.1° D=80.8°	V=53.1° H=68.9° D=80.6°	V=58.7° H=73.6° D=86.2°	V=60.5° H=75.7° D=88.3°	V=59.0° H=82.6° D=92.5°	308.7 mm / 12.15"
<b>Focal length 18 mm <sup>(8)</sup></b>	V=40.8° H=66.8° D=74.2°	V=47.9° H=62.8° D=74.1°	V=53.1° H=67.3° D=79.5°	V=54.9° H=69.3° D=81.6°	V=53.5° H=76.0° D=85.9°	308.0 mm / 12.13"

<sup>(8)</sup> For abbreviations please see legend at end of document

### ARRI Lenses Technical Legend

<sup>(1)</sup> **Lens Mount**

Positive locking (PL) 54 mm stainless steel lens mount with Lens Data System (LDS) contacts.

<sup>(2)</sup> **Close Focus**

Close focus is measured from the film/sensor plane.

<sup>(3)</sup> **Magnification ratio**

Magnification Ratio is the relationship of the size of an object on the film/sensor plane (first number) to the size of that object in real life (second number) at the close focus setting; horizontal (H) and vertical (V).

<sup>(4)</sup> **Length**

Length is measured from the lens mount to the front of the lens housing.

<sup>(5)</sup> **Length including flange focal distance**

Length is measured from the image to the front of the lens housing.

<sup>(6)</sup> **Front Diameter**

Diameter of the lens/matte box interface.

<sup>(7)</sup> **Entrance Pupil**

The distance from the entrance pupil to the film/sensor plane at focus = infinity. Positive numbers indicated an entrance pupil in front, negative numbers indicated an entrance pupil behind the film/sensor plane.

The entrance pupil (often mistakenly called "nodal point") is the center of perspective; moving the camera/lens system around the center of the entrance pupil prevents parallax errors.

While largely irrelevant for live action, this measurement is important for special effects work.

All data subject to change without notice.