

Wildlife and Nature Photography Equipment Recommendations

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Full Frame Cameras

Sony A7RIII FX Mirrorless Camera

42.4 MP FX-Format CMOS Sensor
35.9 x 24 mm sensor size
NP-FZ100 Lithium-ion Battery
Max Resolution 7952 x 5304
Pixel width = $35.6 / 7952 = 0.00595 = 4.49$ microns
Pixel height = $23.8 / 5304 = 0.00595 = 4.49$ microns
ILCE-7RM3
\$3,200
23.2 oz. (1.45 pounds)

Full Frame Lenses

Sony FE 28-70 mm f/3.5-5.6 OSS Lens

Filter 55 mm
75 - 34 degrees FX FOV
Minimum Focus Distance 11.81"
Image Stabilized
ALC-SH132 plastic bayonet hood
2-7/8 x 3-3/8"
\$400
10.41 oz. (0.65 pounds)

Sony Vario-Tessar T* FE 16-35 mm F4 ZA OSS Wide Angle Zoom Lens

107 - 63 degrees
Filter 72 mm
Minimum Focus Distance 11.02"
Image Stabilized
ALC-SH134 Lens Hood
3-1/2" x 4-7/8"
\$1,350
18.27 oz (1.14 pounds)

Sony FE 90 mm F2.8 Macro G OSS Lens

27 degrees

Filter 62 mm

Minimum Focus Distance 11.02"

Image Stabilized

ALC-SH138 Lens Hood

3-1/8 x 5-1/4"

\$1,100

21.3 oz (1.33 pounds)

Sony FE 70-300 mm F4.5-5.6 G OSS Lens

34 - 8 degrees

Filter 72 mm

Minimum Focus Distance 2.96 ft

Image Stabilized

ALC-SH144 Lens Hood

3 3/8 x 5 3/4"

\$1,200

30.2 oz (1.89 pounds)

Sony FE 24–105 mm F4 G OSS Lens

SEL24105G

84-23 degrees

Filter: 77 mm

Minimum Focus Distance 1.25 ft

Image Stabilized

ALC-SH152 Lens Hood

3-3/8 x 4-1/2 in

\$1,400

23.4 oz (1.46 pounds)

Sony G Master FE 100-400mm super-telephoto zoom lens

SEL100400GM

24° -6° 10'

FILTER: 77 mm

MINIMUM FOCUS DISTANCE 3.22 ft

Image Stabilized

9" x 4.5"

Can be used with 1.4x and 2x teleconverters

\$2500

WEIGHT 49.3 oz (3.1 pounds)

Sony 1.4x Teleconverter Lens

SEL14TC

DIMENSIONS (DIAMETER X LENGTH) 62.4 x 42.7 mm

\$550

WEIGHT 7.3 oz

Sony 2x Teleconverter Lens

SEL20TC

DIMENSIONS (DIAMETER X LENGTH) 62.4 x 42.7 mm

\$550

WEIGHT 7.3 oz

APS-C Cameras

Sony Alpha a6300 Mirrorless Digital Camera

24.2 MP DX-Format CMOS Sensor

23.5 x 15.6 mm sensor size

Max Resolution 6000 x 4000

Pixel width = $23.5 / 6000 = 0.0039 = 3.9$ microns

Pixel height = $15.6 / 4000 = 0.0039 = 3.9$ microns

Guide No. 19 ft. at ISO 100

\$900

14.3 oz. (0.89 pounds)

APS-C Lenses

Sony E PZ 16–50 mm F3.5–5.6 OSS Lens

Filter 40.5 mm

Angle of View 83° - 32°

Minimum Focus Distance 9.84"

Image Stabilized

\$400

4.1 oz. (0.26 pounds)

Sony E 55–210 mm F4.5-6.3 OSS Lens

Filter 49 mm

29°-7°40'

Minimum Focus Distance 39.32"

Image Stabilized

\$350

Nikon CL-1020 Soft Case

12.2 oz. (0.8 pounds)

Sony E 10-18mm f/4 OSS Lens

Filter Thread 62 mm

109°-76°

Minimum Focus Distance 9.84"

Image Stabilized

\$750

Nikon CL-0815 Soft Lens Case

8 oz. (0.5 pounds)

Sony E 18-135mm f/3.5-5.6 OSS Lens

Filter Thread 55 mm

76°-12°

Minimum Focus Distance 17.76"

Image Stabilized

\$500

SEL18135

11.5 oz. (0.72 pounds)

Cases

Tenba Solstice 20L Camera Backpack (Blue)

Interior Dimensions 9.5 x 18.5 x 6.5"

Exterior Dimensions 11 x 19 x 9"

\$170

Weight 2.25 lb

Tenba Solstice 12L Camera Backpack (Blue)

Interior Dimensions 7.5 x 17.5 x 6"

Exterior Dimensions 9 x 18 x 8"

\$125

Weight 2.0 lb

Tenba Solstice Sling Bag (10L, Blue)

Exterior Dimensions: 9.5 x 17.5 x 7"

\$75

Weight: 1.6 lbs

Camera Strap

Peak Design Black Slide Camera Strap SL-BK-3

max length: 57"

min length: 39"

width 1.8"

\$65

Add double-sided 2 inch wide velcro around the metal buckles to protect camera

https://www.amazon.com/AIRNIX-Black-Nylon-Cable-Double/dp/B074NB2548/ref=sr_1_28?keywords=double-sided+velcro+2+inch&qid=1565274509&s=gateway&sr=8-28

Tripod / Monopod / Head

Manfrotto Element Traveller Tripod Big with Ball Head, Carbon Fiber

MKELEB5CF-BH

Load Capacity: 17.64 lb

Max Height: 64.57"

Folded Length: 16.34"

Leg Sections: 5

Twist Leg Locks

Aluminum Ball Head with Arca-type quick release plate

\$200

Weight: 3.1 lb

Sirui P-326 Carbon Fiber Monopod

Load Capacity: 22 lb

Max Height: 61.4"

Closed Length: 15.6"

Sections: 6

\$100

Weight: 14.4 oz (0.9 lb)

Really Right Stuff BH-30 Ball Head with Compact Lever-Release Clamp

15 lb Load Capacity

Max Height: 3"

Panning Base with Engraved Degree Marks

Base Diameter 1.6", Ball Diameter 1.2"

\$295

Weight 11.2 oz

Newer 2 Pieces Metal PU-60 60 Millimeter Universal Quick Shoe Plate with 1/4 inch Screw, Fits Arca-Swiss Standard for Camera Tripod Ball Head(Black)

\$15 at Amazon

Camera and Lens Size and Weight Combinations

Approximate:

Sony A6300: 5.25 x 2.75"

Sony A6300 + 16-50 mm: 3.5" long, 18.4 oz (1.2 pounds)

Sony A6300 + 10-18 mm: 4.75" long, 5.5" with hood, 22.3 oz (1.5 pounds)

Sony A6300 + 18-135 mm: 5.75 long", 6.75" with hood, 25.8 oz (1.6 pounds)

Sony A6300 + 55-210 mm: 6.5" long, 8" with hood, 26.5 oz (1.7 pounds)

Sony A7RIV: 5.1 x 3.1"

Sony A7RIV + 28-70 mm: 6.9" long, 8.4" with hood, 33.91 oz. (2.1 pounds)

Sony A7RIV + 16-35 mm: 8" long, 9.25" with hood, 41.77 oz (2.6 pounds)

Sony A7RIV + 90 mm: 8.4" long, 10.65" with hood, 44.8 oz (2.8 pounds)

Sony A7RIV + 24–105 mm: 7.6" long, 9.1" with hood, 46.9 oz (2.9 pounds)

Sony A7RIV + 70-300 mm: 8.9" long, 11.4" with hood, 53.7 oz (3.4 pounds)

Sony A7RIV + 100-400 mm: 12.1 long", 15.1" with hood, 72.8 oz (4.6 pounds)

Sony A7RIV + 100-400 mm + 2x: 13.1" long, 16.1" with hood, 80.1 oz (5 pounds)