ASTROPHOTOGRAPHY

QUICK-REFERENCE

SHARP STARS
Do not use shutter speeds longer than the numbers below

	SHARP STARS	STAR TRAILS
LENS FOCAL LENGTH	FULL-FRAME Max Exposure 600 Rule ›	APS-C Max Exposure 600 Rule ›
14mm	600 ÷ 14 = 42 sec	600 ÷ (14 × 1.6) = 26 sec
24mm	600 ÷ 24 = 25 sec	600 ÷ (24 × 1.6) = 15 sec
35mm	600 ÷ 35 = 17 sec	600 ÷ (35 × 1.6) = 11 sec
50mm	600 ÷ 50 = 12 sec	600 ÷ (50 × 1.6) = 8 sec
85mm	600 ÷ 85 = 7 sec	600 ÷ (85 × 1.6) = 4 sec
100mm	600 ÷ 100 = 6 sec	600 ÷ (100 × 1.6) = 3.5 sec

1. Multiply focal length × 1.6 for APS-C
2. Divide 600 by that number.
3. Result = Max seconds before trails.

TIP: For sharper stars, try the 500 Rule!