



At the heart of the image

I AM NEW



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I AM

INTERSTELLAR



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I AM

THE D810A



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D810A IN A NUTSHELL

Engineered exclusively for astrophotography, the D810A captures magnificent 36.3-megapixel images of nebulae that emit on the hydrogen-alpha wavelength.

- Specialized functions answer the challenges of astrophotography. And the camera's ultra-high ISO and exceptional resolving power ensure brilliant detail.





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- ❑ 36.3 Megapixel CMOS
- ❑ New M* exposure mode
- ❑ New virtual exposure preview
- ❑ Special hydrogen-alpha line sensitivity
- ❑ Electronic front curtain shutter
- ❑ ISO 200 – 12,800 (up to 51,200 expanded)
- ❑ New, adapted i-mode for live view shooting
- ❑ Unlimited buffer with 4s or longer exposure
- ❑ Extensive remote options





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D810A: ASTRO IMAGING KEY FEATURES

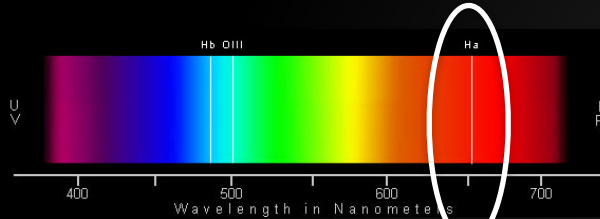
D810



D810A



Via reassessment of the infrared (IR) cut filter, it has become possible to reproduce nebulae that emit in red with an H-alpha spectral line.



Visible light spectrum



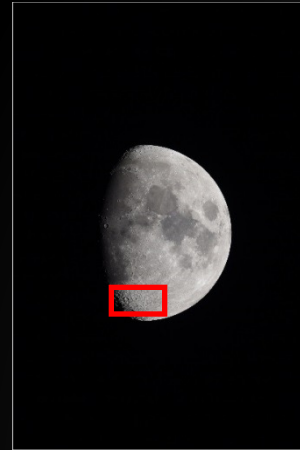


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D810A: ASTRO IMAGING KEY FEATURES



The D810's proven mirror balancer and shutter unit in combination with the electronic front-curtain shutter ensure maximum reduction of mechanical vibration – thus maximizing richness of image detail



Electronic front-curtain shutter:
Enabled



Electronic front-curtain shutter:
Disabled

Images are taken with D810. Optical system: 20cm Newtonian Reflector Telescope and Takahashi MT-200 Collector, at 1600mm, f/8. Equatorial telescope: Auto guide with Takahashi NJP PYXIS, Shutter speed: 1/100 s, ISO sensitivity: ISO 125



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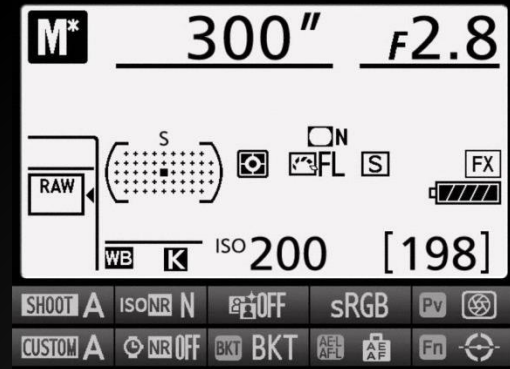
D810A: ASTRO IMAGING KEY FEATURES

New M* - mode:

A new and unique manual exposure mode for long time exposures in astro photography has been added, M*.

This mode is additional to standard M, Bulb and Time exposure. It offers up to 900s pre-set exposure, available in 14 steps, starting from 4s upwards.

The blackened LC display which is available especially for night-time photography avoids unnecessary light pollution



Standard daytime monitor display

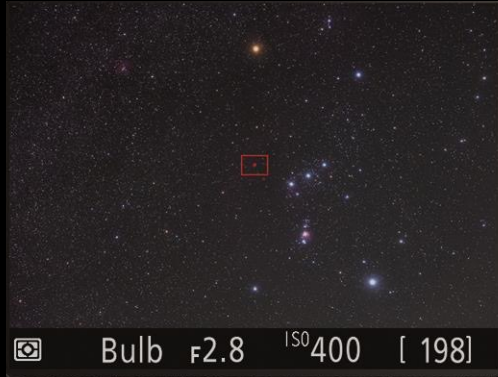


Night-time monitor display



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D810A: ASTRO IMAGING KEY FEATURES



New Live Preview and 23x loupe:

For better framing, focusing and composition, the D810A offers a live preview function. This function shows the user a virtual result based upon the camera settings*.

Together with up to 23x enlargement, this minimizes unwanted results and also gives a better idea of the resulting image. Standard cameras live view images are too dark and subjects are too small to be identified in live view.



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D810A: ASTRO IMAGING KEY FEATURES

Unlimited image buffer:

Shooting unlimited high-quality images in 14bit NEF-RAW or JPG with 4s or longer exposures does not only help with star-trail photography, but also ensures ease of use when creating series from deep sky objects that need to be compiled in image editing afterwards



Orion Nebula (M42)
D810A, Cassegrain 16", f/3 (1,200mm)
M, ISO1,600, 60s x 35 images



Image: Johannes Schedler



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D810A: ASTRO IMAGING KEY FEATURES



Horsehead nebula (LDN1630)
D810A, Takahashi TOA130, f/7.7, 700mm
M, ISO1,250, 600s x 8 images

Image: Takayuki Yoshida

Nikon's 3D noise reduction:

Together with the new ISO range of 200-12,800 ISO (100 – 51,200 expanded), the D810A's 3D noise reduction system offers unprecedented combination of detail from 36.3 Megapixel resolution, unchallenged dynamic range and a great signal-noise ratio perfect for the subject of deep sky imaging



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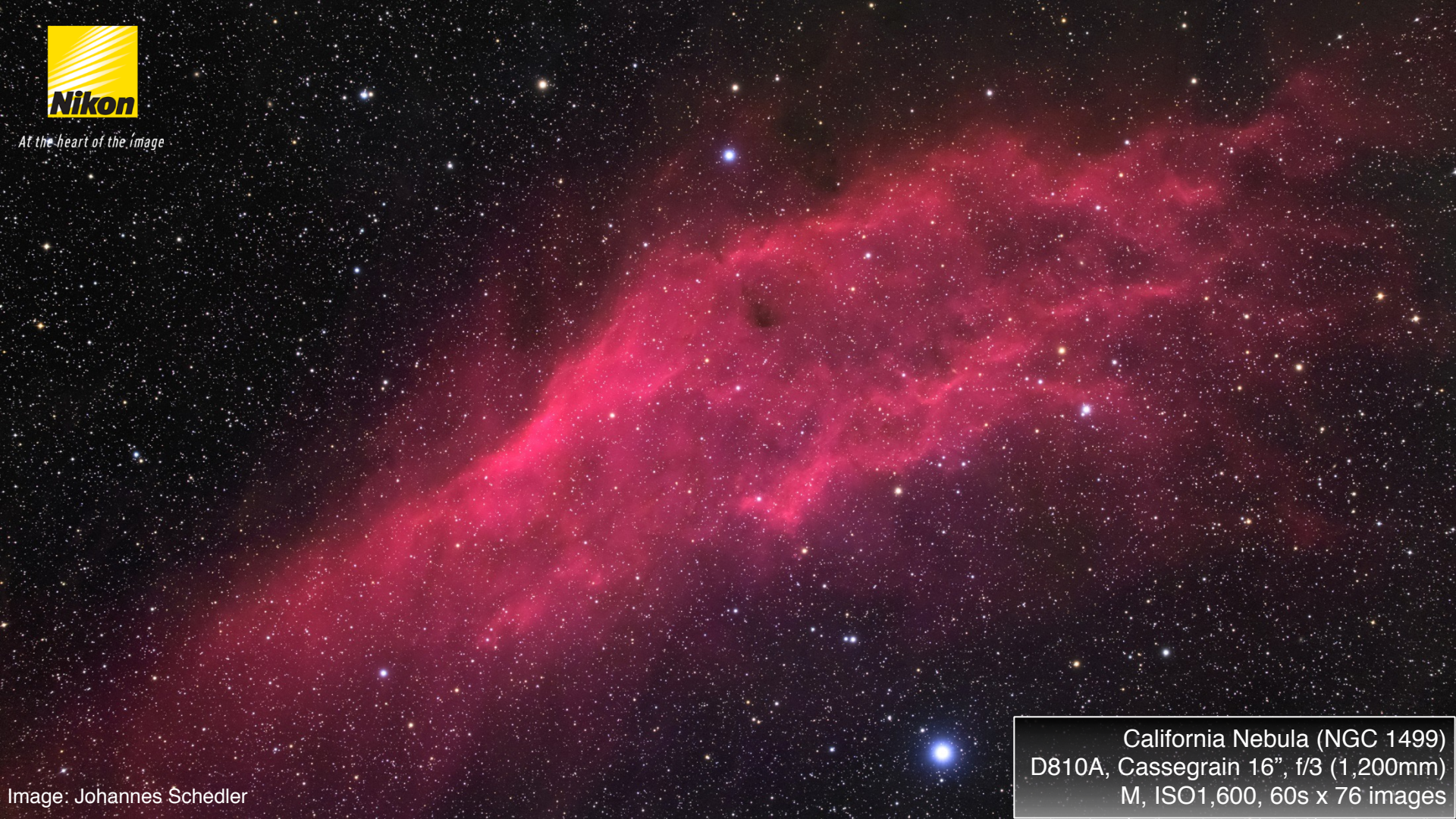
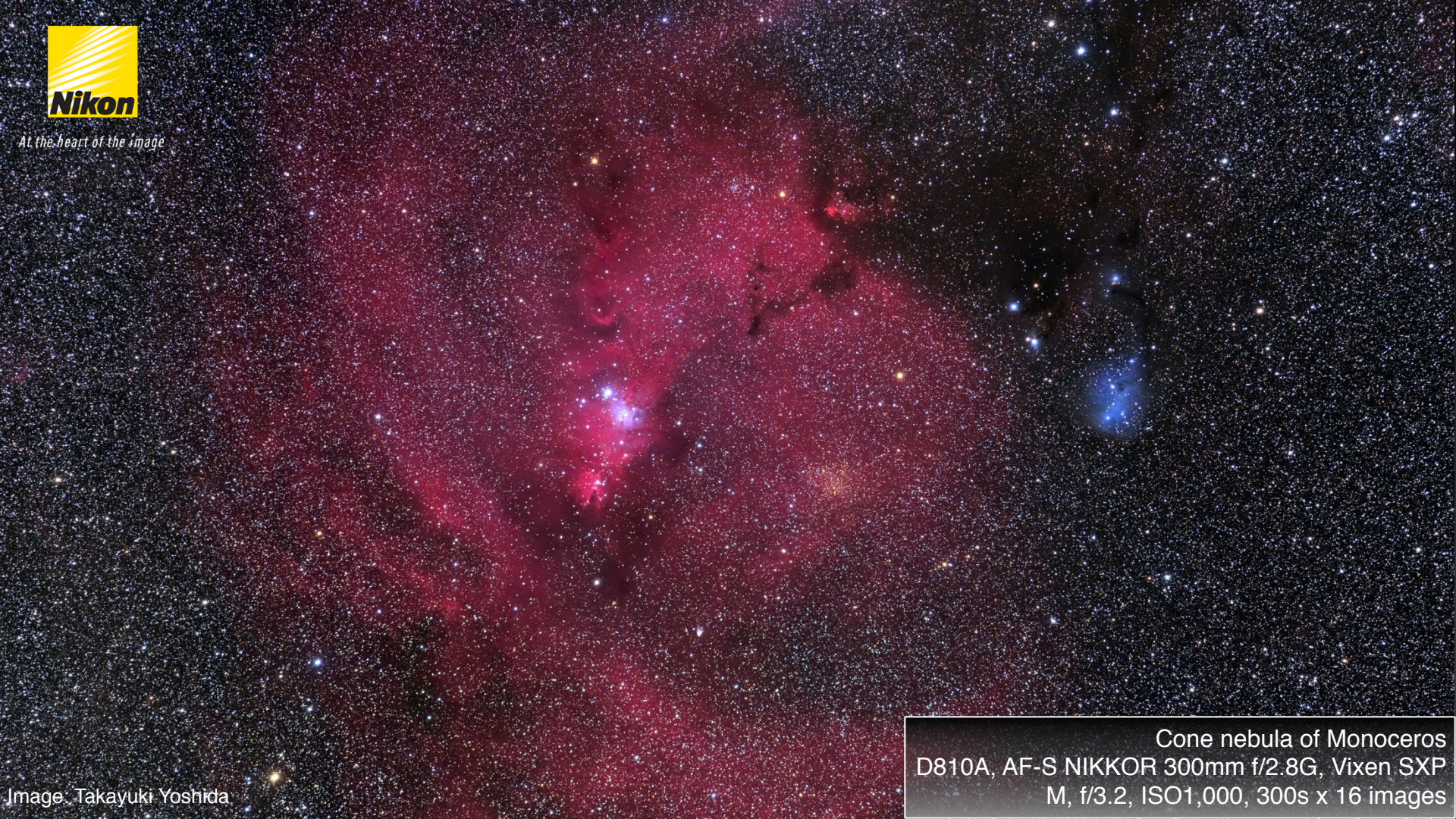


Image: Johannes Schedler

California Nebula (NGC 1499)
D810A, Cassegrain 16", f/3 (1,200mm)
M, ISO1,600, 60s x 76 images



At the heart of the image

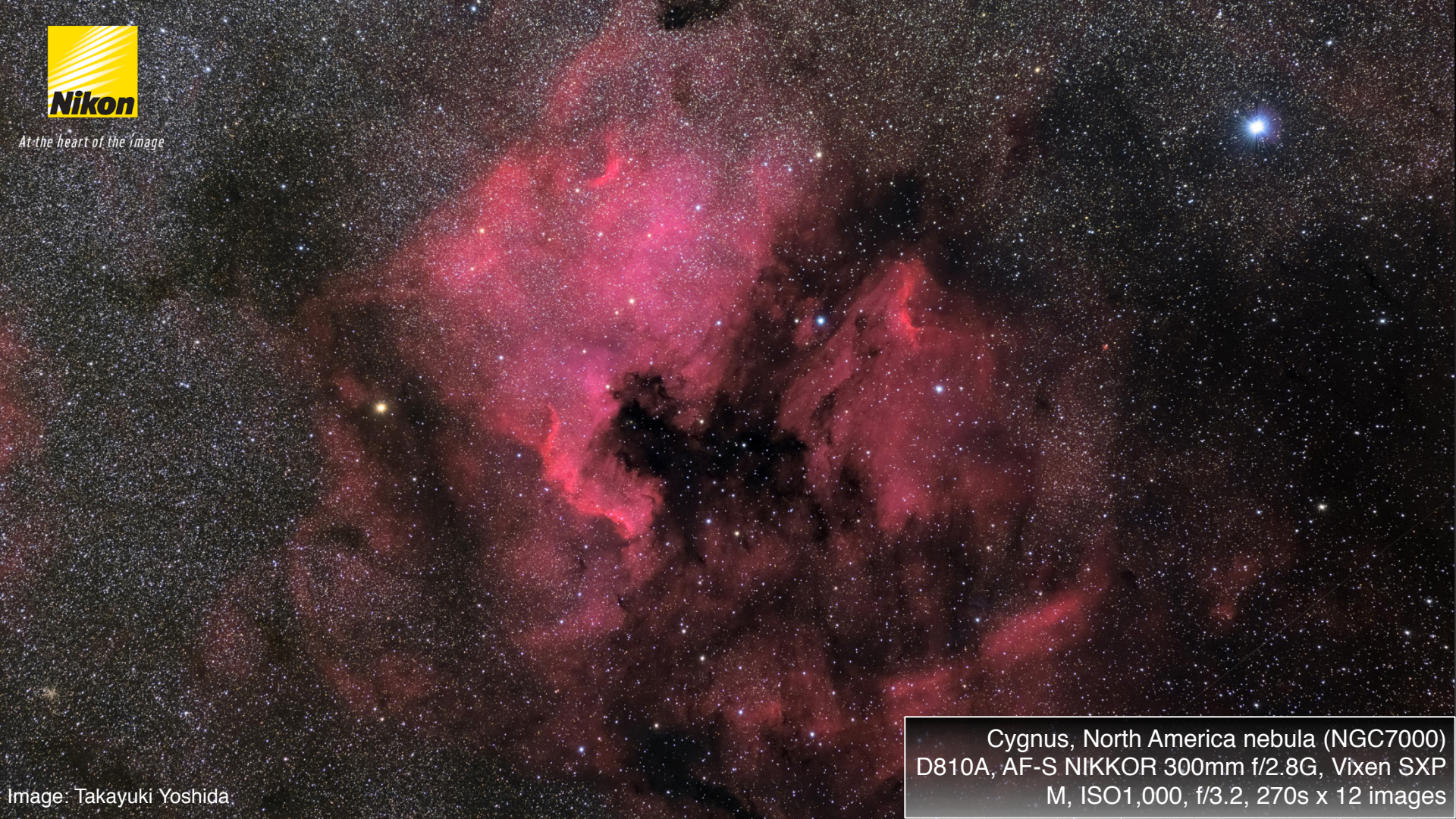


Cone nebula of Monoceros
D810A, AF-S NIKKOR 300mm f/2.8G, Vixen SXP
M, f/3.2, ISO1,000, 300s x 16 images

Image: Takayuki Yoshida



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Cygnus, North America nebula (NGC7000)
D810A, AF-S NIKKOR 300mm f/2.8G, Vixen SXP
M, ISO1,000, f/3.2, 270s x 12 images

Image: Takayuki Yoshida



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Image: Toshio Ushiyama



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MAJOR SELLING POINTS

- It is possible to capture H-alpha emission nebulae in red which cannot be achieved with an ordinary digital SLR camera
- Long exposure M* mode that enables setting of a shutter speed up to 900 seconds, convenient for long-time exposures is employed
- Virtual exposure preview in M*, bulb and time settings is available which is useful for focusing and framing during live view
- Maximum resolution among Nikon digital SLR cameras and superior high image quality at high sensitivities with low noise
- Electronic front-curtain shutter for reducing internal mechanical vibrations effectively
- Unlimited number of shots in continuous shooting with a shutter speed 4 seconds or longer
- Live view images can be enlarged up to approx. 23x to facilitate accurate focusing while retaining high definition



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I AM DIFFERENT