



Recommended lenses for use with Gates SP80 / FP80 Port system

Last update: 1 June 2015

The following list of lenses are compatible with, and recommended for use with Gates SP80-8 series ports. It is based on tests performed at Gates, and field reports from customers. This is a guide only, and does not guarantee image quality or specific results. Unless otherwise listed, all lenses are for use with the SP80-8 Dome Port.

DSLR Wide Angle Fisheye

- *Canon 8-15*. Best resolution Gates has tested in a fisheye. The image is broader across the center, mitigating the fisheye effect. Minimum focal length ~11 mm avoids internal lens vignetting.
- *Sigma 15*. Reported by customers has having good sharpness. Available in Nikon and Canon mounts.
- *Tokina 10-17*. Budget option. Available in both Nikon & Canon mounts.

DSLR Wide Angle Rectilinear

- *Canon 11-24*. Sharp through entire zoom range. Classic soft corners but less than usually found on rectilinear lenses.
- *Zeiss 15mm T* Distagon*. Clean, sharp image. Some corner softness with open iris.
- *Tokina 11-16 (Same as Duclos 11-16 PL Conversion)*. Nikon and Canon mounts. A budget wide angle rectilinear lens and widely availed by underwater professionals.
- *Canon 14*. Very good results across the image.

DSLR Medium Zoom

- *Nikon 17-55*. Full zoom support with Dome. A DX lens, it will cover Super 35 sensors. Versatile range. Vignettes slightly with Dragon 5.5K and 6K resolutions.
- *Canon 16-35*. +2 diopter recommended. Sharp lens.
- *Sigma 17-70*. Full zoom support with SP80 dome. Comes in both Nikon and Canon mounts. Versatile range.
- *Nikon 16-85*. FP80 Flat port required to get the entire zoom. Nikon mount.

DSLR Macro

- *Nikon 70-180 Macro zoom*. FP80 or SP80 Port compatibility.
- *Any Nikon or Canon macro lens*. 50 / 100 / 105mm.

PL Mount Cinema Wide Angle

- *Zeiss CP.2 15mm*. Reported very sharp by customers. The Distagon 15mm DSLR lens noted above is the same glass.
- *Arri MP or UP 12 or 14mm*. Use T2.9 or higher. Lower T-stop yields very soft corners.

PL Mount Cinema Zoom

- *Canon CN-E 15.5-47 T2.8 Cine Zoom*. Full zoom range available with SP80 8" / 203mm Dome Port. MOD is 18 in / 45cm from dome. Excellent choice in cinema zoom glass.
- *Duclos 11-16 or Tokina 11-16 (PL Conversion)*. A budget wide angle rectilinear lens and widely availed by underwater professionals.
- *Tokina Cinema 16-28 T2.8*. A sharp lens through the entire zoom range.