

ALPAO atmospheric turbulence WFS is a Shack-Hartmann WFS dedicated to astronomy and defense applications. With the most advanced EMCCD sensor, it features a high sensitivity and a very high frequency. The latency has been optimized to fit the most demanding applications.

This sensor perfectly fits with ALPAO DM and ALPAO Real Time Computer ACE fast.







TYPICAL PERFORMANCES

Sensor type				
Acquisition frequency				
Sensor maximum quantum efficiency				
Number of microlenses				
Microlens pitch				
Spectral range				
Interface				
Dynamic in tip-tilt / focus (PtV)				
Residual WFE error on closed loop *				
Absolute precision *				
Repeatability *				
Typical noise (RMS)				
Operating temperature				
Recommended DM				

VIS WFS-69	VIS WFS-97	VIS WFS-277	VIS WFS-468	
EMCCD				
1838Hz	1004Hz			
>90% at 600nm				
8 x 8	10 x 10	16 x 16	23 x 23	
192µm	307µm	192µm	133µm	
250 - 1100nm				
Camera Link				
10µm	20µm	15µm	10µm	
20nm RMS				
λ/20 RMS				
10nm RMS				
< 0.1 electron				
0°C to 30°C				
DM69	DM97-15	DM277	DM468	





MORE INFORMATION

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Note *: considering a measurement performed in good flux conditions and without wavefront perturbation

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