



ALCOR SYSTEM

www.alcor-system.com

Company introduction

ESO ODJ, June, 20th, PARIS, IAP.

ALCOR SYSTEM

- ▶ Company created in 2012, delivering products for high end amateurs, professional and educational projects in Astronomy.
- ▶ Based on long experience in several observatories.
- ▶ Hardware product list
 - ▶ Observation weather conditions monitoring
 - ▶ ALL SKY cameras (Visible and infrared) 185°X185° FOV
 - ▶ Automated Seeing Monitor (DIMM - China 12m LOT Site selection instruments)
 - ▶ Direct Drive telescope mounts : ALTAZ mounts, satellite tracking
 - ▶ Payload up to 80 cm Diameter telescope
 - ▶ Optical metrology systems (Shack Hartman on Lab & on Sky)
 - ▶ Up to 100x100 resolution + analysis software
 - ▶ Modal and zonal wavefront analysis
 - ▶ Active optics

Products : consultancy services on Astronomical systems

- ▶ Telescope system design & engineering
 - ▶ Mechanics, optics, control systems and software.
 - ▶ Ex : 2.5 m Reosc Telescope (2009-2012)
- ▶ Detector systems (CCD / CMOS)
 - ▶ Past experience on CCD Detector as specialist at ESO
 - ▶ Characterization software, test benches, quality control methods.
 - ▶ PhD in CMOS Sensor and experience in IR sensors
- ▶ Astronomical instrumentation
 - ▶ Spectrographs installation, tests, performance assessment
- ▶ Complete Observatory solutions
 - ▶ Turnkey solutions based on customer specifications (Chile)
 - ▶ Commissioning and telescopes tests

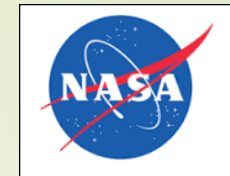
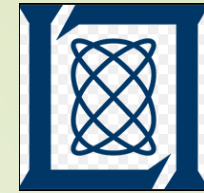
Consultancy services : software

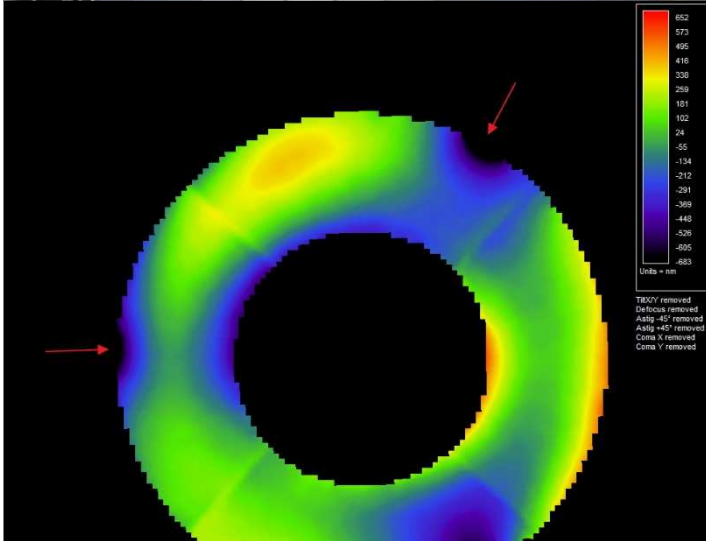
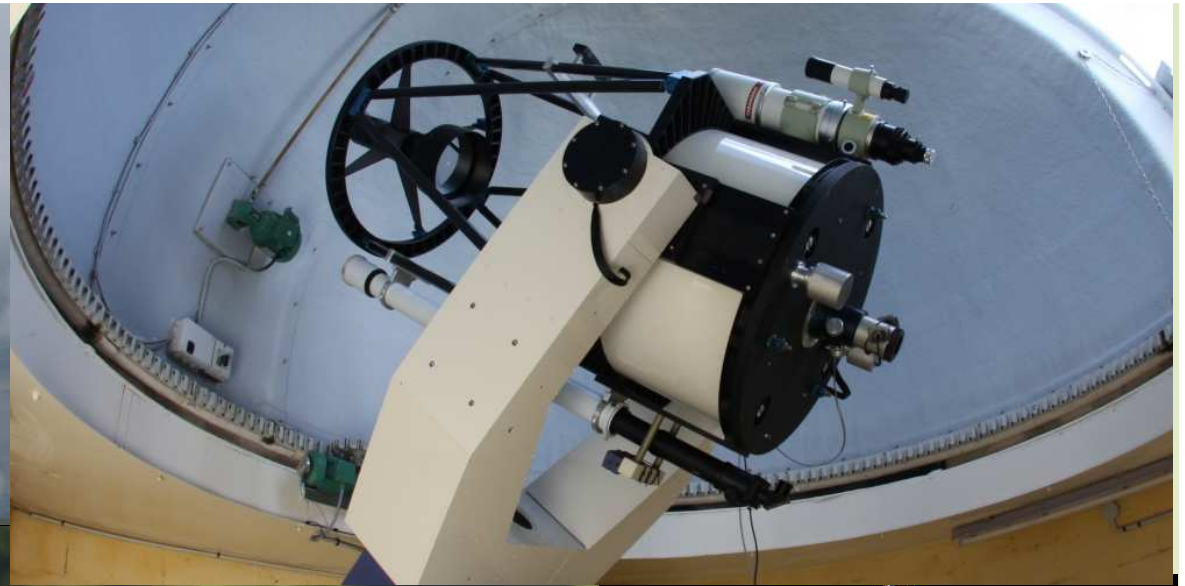
- ▶ Our company has a long experience (>20 years) on software for Astronomy
 - ▶ PRISM Software : General Observatory Operation Software
 - ▶ More than 1 million line of code, sold worldwide, advanced observatory control.
 - ▶ Our company has provided software solutions for many observatories worldwide
 - ▶ Automatic DIMMs
 - ▶ Observatories
 - ▶ All our hardware product use “in-house” software.
 - ▶ Instrument control
 - ▶ Telescope control
 - ▶ Data reduction
- ▶ More than 500 customers
- ▶ Financial turn over ~ 0.5 M€, 80% exportation.

Customer reference list

- ESO : software for CCD camera characterization
- ▶ Naval Research Laboratory, US Navy (NCST) - USA
- ▶ MIT Lincoln Lab – USA
- ▶ National Institute of Standard Technology (NIST) – USA
- ▶ Centre National d'Etudes Spatiales (CNES) – France
- ▶ Commissariat à l'énergie Atomique (CEA) – France
- ▶ NASA, Goddard Space Flight Center
- ▶ Centre National de la Recherche Scientifique (CNRS) – France
- ▶ Chinese Academy of Science – China
- ▶ Las Campanas Observatory – Chile
- ▶ Observatoire de Genève
- ▶ National Astronomical Research Institute of Thailand (NARIT) – Thailand
- ▶ Apache point observatory
- ▶ And more

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Thanks for your attention !