



## Large Binocular Telescope

# ARGOS

## Advanced Rayleigh Ground layer adaptive Optics System

### ARGOS Calibration unit Hologram Specifications

|            |                           |
|------------|---------------------------|
| Doc. No.   | ARGOS                     |
| ShortTitle | CalUnitVerificationMatrix |
| Issue      | 1.0                       |
| Date       | 2012/03/14                |

|          |                |                   |
|----------|----------------|-------------------|
| Prepared | <u>D.Peter</u> | <u>2012/03/14</u> |
|          | Name           | Date              |

|          |                   |                   |
|----------|-------------------|-------------------|
| Approved | <u>N. Surname</u> | <u>yyyy/mm/dd</u> |
|          | Name              | Date              |

|          |                   |                   |
|----------|-------------------|-------------------|
| Released | <u>N. Surname</u> | <u>yyyy/mm/dd</u> |
|          | Name              | Date              |

**TABLE OF CONTENTS**

[1 Verification matrix for the CalUnit.....4](#)

**LIST OF FIGURES**

**LIST OF TABLES**

## Change Record

| <b>Issue</b> | <b>Date</b> | <b>Section/ Paragraph Affected</b> | <b>Reasons / Remarks</b> | <b>Name</b> |
|--------------|-------------|------------------------------------|--------------------------|-------------|
| 1.0          | 2012/03/14  |                                    | Created                  | Peter       |
|              |             |                                    |                          |             |
|              |             |                                    |                          |             |
|              |             |                                    |                          |             |
|              |             |                                    |                          |             |

## 1 Verification matrix for the CalUnit

| Element                               | status            | In spec              | comments   |
|---------------------------------------|-------------------|----------------------|--|
| Asphere                               | Done              | Yes (Central defect) | effect of defect to be investigated                                  |
| Lens 2                                | To coating        | yes                  |  |
| Lens 3                                | To coating        | yes                  |  |
| Lens 4                                | To coating        | yes                  |  |
| Mechanics                             | Waiting for offer |                      |  |
| Fibers CalUnit                        | Can be purchased  |                      | Mounted by LBTO  |
| Fibers ASM source                     | To be purchased   |                      | Mounted by LBTO  |
| Lightsources (Laser)                  | ready             | TBMeasured           | Still test the optics  |
| Lightsources ASM                      | ready             | TBMeasured ?         | For alignment use both on single sides then on ASM sources only      |
| Fiber coupler for white light sources | To be purchased   |                      | In case that we need to use more than two light sources at same time |
| Software                              | Ready?            |                      |  |
| Test equipment:<br>Circulator(s)      |                   |                      | Thorlabs 600 Euro each   |
| Fibers for green laser source testing |                   |                      | Thorlabs 80 Euro each  |
| 1316 nm Laser for testing             |                   |                      | In house   |
| Mount for CalUnit                     |                   |                      | Make in house  |
| Rotation mount for Fiber plate        |                   |                      | Newport 709 Euro<br>MUTR80SA   |
| Adapter for rotation mount            |                   |                      | Make in house  |
| SHS                                   | ready             |                      | MPE  |

**End of document**