

# OCRA product datasheet

Optical Compass & Robot Arm | Remote antenna measurement and alignment

## System components

|                           |                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------|
| OC / Optical Compass      | 16 light sensors, IMU and GPS support 3D orientation measurement. Built-in camera provides installation snapshots. |
| RA / Robot Arm            | Remote mechanical tilt and horizontal steering through the O&M platform.                                           |
| OCC / optional controller | Independent LTE Cat 4 data link for sites without an available AISG connection.                                    |
| O&M server                | Web-based monitoring, antenna location mapping, historical orientation data and remote commands.                   |

## Core specifications

|                           |                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Azimuth / tilt / roll     | Azimuth: +/-2 degrees relative to True North. Tilt and roll: +/-0.5 degrees.                                                           |
| Mechanical movement       | Tilt: 0-35 degrees. Horizontal steering: +/-60 degrees. Maximum antenna load: 30 kg.                                                   |
| RA environment            | IP65. Operating temperature: -40 to +70 degrees C. The OCC has a different temperature range in the source deck: -40 to +55 degrees C. |
| Interface                 | AISG 2.0 / 3.0. Optional OCC with LTE Cat 4.                                                                                           |
| Post-command verification | Target deviation within +/-1 degree in the supplied closed-loop brief. This is distinct from absolute azimuth accuracy.                |

## Integration planning

Confirm the equipment model, firmware and permissions with the engineering team. The 2025 deck records Ericsson Radio 4490 HP and Huawei U2000 integration history. Nokia and AISG 3.0 reflect the latest SensorCane update.