

TrailerDomes.com

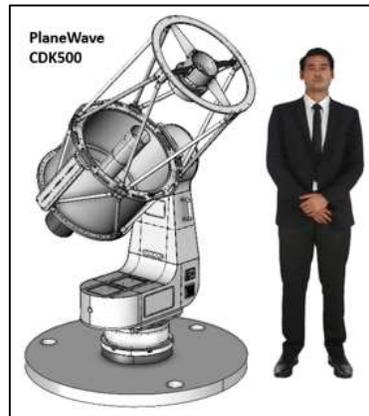
Scandinavian engineering

New trailer dome model for larger gear

Trailer domes AB is working on a new model capable of carrying 150-600 kg optical systems. The present model has an instrument capacity of 75-150 kg.

The development project has been initiated by two large US based Space Defense contractors seeking a carrying vehicle and platform for mobile optical tracking units. Their gear will be CDK 400-700 or similar 17-27 inch systems.

The model will have the same extraordinary damping capabilities during transportation as today's model but different solutions for rigging and anchoring. Despite being able to carry much larger and heavier gear, the new trailer dome will be more compact and have a lower total build height.



It will further be operated by remote automation. Once parked at the tracking site, the mobile unit is converted from sealed Idle mode to active Tracking mode in one minute. All managed remotely and fully automated, just as the contractors' own sophisticated tracking system itself.

Star party Sagittarius at Öland, Sweden 2022

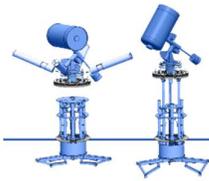
The prototype has now been driving 3 500 km to various star parties and other events. Plus 800 km on test roads prior to completion, involving a huge number of severe traffic situations like emergency braking at 80 km/h, rough gravel roads, bumps, pits, and sharp curves. Always with the same astro gear mounted on the suspension platform.



Here an image of Jupiter captured at the latest star party Sagittarius. Which in fact even was a test of the astro gear's performance after having been exposed to the many and harsh traffic situations.

The image proved that the optical train indeed was in a perfect condition. It would hardly be possible to capture an image of such a quality otherwise.

The image shown here is of course merely a 30 kB version of the stacked original one.



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Trailer dome prototype participating at public events

Big Bang Day is a great festival in the Belgium city Charleroi where the mathematician and astronomer Georges Lemaître was born (1894-1966). He is regarded being the one who first formulated the Big Bang theory in a scientific context. A theory that might represent the most significant contribution to our present perception of the Universe, on the largest scale imaginable.

The organizers have invited Trailer domes AB to participate at their next event which will take place in Charleroi on March 25-28, 2023. Visitors will then be able to study the prototype's technical installations and solutions, in full detail.

And perhaps also watch live-streamed videos of the Sun with zoomed in sunspots on a big screen inside the trailer's control cabin. Sunspots are 'magnetic hurricanes' which easily could be 3-4 times the size of Earth.

Even a close-up of the Moon with its huge craters might be possible, in broad daylight.

The live-streamed videos are of course depending on the weather conditions. By cloudy weather visitors will be offered to watch recorded videos and stacked images instead. Both of the Sun and the Moon as well as the two most fascinating planets Jupiter and Saturn. Which are orbiting our Sun at a distance of 750-1500 million km from Earth.

Here some pictures from a similar public event in Malmö, Sweden where the prototype was one of the attractions at Scandinavian largest festival **Malmöfestivalen 2022**.

