1.2m Prime Focus Wide Field Telescope, Ural State University Ekatarinburg (Russia)

1.2 meter telescope was purchased by the observatory of the Ural State university in 2009r within the limits of the innovative program for education development.
The telescope allows to carry on observations in the main focus (1/3) and in two Nasmyth focuses (1/10).
One of the Nasmyth focuses is equipped with a fibre-optical échelle-spectrograph of high resolution. In the second Nasmyth focus a low resolution spectrograph will be installed. In the main focus a photometer-polarimeter will be mounted. The field of view of the 4kx4k pixels CCD-cam will make 1 sq. degree.

At the moment the device is finished and is going through tests. The tool is Russia's third largest optical telescope.

The unique combination of a modern control system, high-quality optics of the telescope and the equipment allows to conduct researches and to educate experts in the astronomy, spectroscopy, ecological monitoring of the atmosphere and IT technology areas.

The possibility of the telescope and the equipment control via Internet allows to create a remote access complex. Thanks to it, students and scientists from other high schools and scientific institutions throughout the country and the whole world can conduct their researches. Now the telescope is used by students and employees of the Ural university, the Sternberg Astronomical Institute of the Moscow University, the Special astronomical observatory of the Russian Academy of Sciences, and the Institute of Astronomy of the Russian Academy of Sciences. Teamwork with the MPIA institute is planned.

The basic subjects of studies on the telescope are the research of variable stars, open clusters, stars of the highest luminosity and areas of star formation. Gamma ray bursts observations and spectroscopy of galaxies are on the queue. Works on the further development and modernization of the complex are carried out with the help of students and allow them to receive a wast experience in the robotics, radio electronics, programming and IT technologies areas.