

## GROUND STATION PANSKA VES

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Satellite Control and Telemetry station Panska Ves is a part of the Ionospheric observatory of the Institute of Atmospheric Physics ASCR and is located about 60km northward of Prague.

The station was founded in 1967 to receive satellites of the INTERCOSMOS program. It participated in a wide range of space projects such as ACTIVE, APEX and INTERBALL. Panska Ves was the only tele-command and telemetry (TC/TM) station for the five Czech satellites MAGION and for the satellite MIMOSA. From 2007 onwards it participate in the project CLUSTER II and receives telemetry from four satellites of this project.

The station is continuously upgraded and equipped to meet the requirements for reception of the satellites in S-band and X-band.

Observatory consist of two operational buildings and large field for antennas and other equipment. There are two 10m dishes and other antennas covering UHF, S and X telemetry band.

### Antenna overview

Antenna	Frequency	Gain [dBi]	FOV (-3dB)	Polarization	Construction	Speed [deg/s]	Note
10 m par. dish East	S band	45,4	1.0°	RCP/LCP	azimuth-elevation	0.3	
10 m par. dish West	S band	45,4	1.0°	RCP/LCP	azimuth-elevation	0.3	
6 m parabolic dish	S band	40.5	1.6°	RCP/LCP	azimuth-elevation	1.0	X-band requires dish calibration
4.2 m parabolic dish	S band	36	2.3°	RCP/LCP	3- axis	6.0	
	X Band	49,7	0.6°				
3 m parabolic dish	S band	34	3.2°	RCP/LCP	azimuth-elevation	6.0	
helical antenna (4 elem.)	UHF	20	18°	RCP	azimuth-elevation	12.0	

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