	Redshift 9	Redshift 9 Premium
Number of stars	100.000	2.500.000
Access to GAIA DR3 online catalog (1.8 billion stars)		✓
Access to USNO B 1.0 online catalog (1 billion stars)		✓
Stars with exoplanets		✓
Famous novae and supernovae with animation of changing brightness		✓
Major planets/dwarf planets	8/5	8/5
Moons	26	26
Comets	800	800
Asteroids	4.000	4.000
Asteroid belts	(reduced)	(full)
Earth spacecraft	150	4.000
Access to online databases of asteroids/comets/spacecraft	(medium)	(high)
Constellations	88	88
Deep sky objects	200	70.000
Search for objects in the Redshift database	✓	✓
Object info	✓	✓
Languages	English/German/ French/Russian/ Spanish/Italian/ Dutch/Japanese	English/German/ French/Russian/ Spanish/Italian/ Dutch/Japanese
Dictionary of Astronomy (available in English, German, French and Russian)	✓	✓
Animated lectures "Discover Astronomy"	10 (all languages)	29 (English/German/ French/Russian) 14 (other languages)
Panoramas of the Moon and Mars	✓	✓
New sound and music effects	✓	✓
Daylight view	✓	✓
"Night vision" view	✓	✓

Feature		
Animated passage of sky objects	✓	✓
Coordinate systems	1	4
Orbits	User selected	Planets/dwarf planets/moons/ user selected
Planetary/lunar mapping (grids, poles, gazetteers)		✓
Setting precise location on the Earth and the Moon	✓	✓
Setting precise location on Sun/planets/moons/asteroids/comets/spacecraft		✓
Use "Above Surface" and "Follow Orbit" modes for setting a location		✓
3D flights	100	200
Landing on planets and moons		✓
3D models of deep sky objects	40	75
3D models of planets/moons	16	35
3D models of asteroids/comets	11	11
3D models of galaxies (Milky Way and others)		✓
3D area of stars from Hipparcos and Tycho-2 catalog in the Milky Way galaxy		✓
Tracking of spacecraft on an Earth map		✓
Telescope control, supporting the ASCOM Alpaca standard		✓
Observation planner (with animations)		✓
Today's celestial events (with animations)	✓	✓
Notifications about today's events at startup		✓
Sky diary for an arbitrary year (with animations)	Events/solar eclipses/lunar eclipses	Events/solar eclipses/lunar eclipses/ conjunctions/ meteor showers
Maps of solar eclipses		✓
Saving and opening workspaces	✓	✓
Setting a favourite startup workspace		✓
Time interval	1000 AD – 3000 AD	1000 AD – 3000 AD
Download of extended time interval	(not available)	4700 BC – 9999 AD

Detailed help manual	✓	✓
3D simulation of orbits	78 orbits	130 orbits
Automatic online update	✓	✓
Save favourite objects in the observation planner		✓
Detailed location info		✓
Sidereal Time		✓
"View Settings" panel with numerical entry		✓
Multiple Sky views (with synchronized time)		✓
Julian days		✓
Visualization of the apparent motion of planets/moons/comets/asteroids		✓
Animated tours of deep space missions	5	11
3D flights to detailed 3D models of spacecraft	2	5
3D flights to other galaxies		✓
Measuring angles and distances in the sky display	✓	✓
Touch screen optimized	✓	✓