

List of functions available in each level

The following table gives the detailed list of functions available in each level of Shadows, Shadows Expert and Shadows Pro. New features are noted in the second column.

General functions		Shadows	Shadows Expert	Shadows Pro
Location database included by default		✓	✓	✓
Visualisation of locations in <i>Google Earth</i>	v2.2	✓	✓	✓
Visualisation of locations <i>Google Maps</i>	v3.0	✓	✓	✓
Import of locations from <i>Google Earth</i>	v2.2	✓	✓	✓
Import of locations from <i>Google Maps</i>	v3.0	✓	✓	✓
Import of locations from <i>GeoNet</i> files	v3.0	✓	✓	✓
Compatible with northern and southern hemispheres		✓	✓	✓
Zoom factor between 10% and 500%	v2.1	✓	✓	✓
Complete on-line help in HTML format	v2.0	✓	✓	✓
Drawings and decoration of sundials		Shadows	Shadows Expert	Shadows Pro
Drawing of sundials full scale		✓	✓	✓
Drawing of the style full scale		✓	✓	✓
Schematics of the style		✓	✓	✓
Technical data sheet of the sundial		✓	✓	✓
Selection of the size of sundial and style		✓	✓	✓
Drawing of hour lines (plain hour, 1/2, 1/4, 5min)		✓	✓	✓
Drawing of declination lines (solstices, equinoxes, Zodiac, décans)		✓	✓	✓
Drawing of lines by déclinaison (5°, 10°)	v2.0		✓	✓
Drawing of lines by date (1st, 11th, 21th of each month)	v2.0		✓	✓
Drawing of a declination line at a particular date		✓	✓	✓
Drawing of several lines at particular dates	v2.0		✓	✓
Selection of color and thickness of lines		✓	✓	✓
Marking of the position of the style on the sundial		✓	✓	✓
Drawing of the flattened down style	v2.2	✓	✓	✓
Drawing of the X – Y axes		✓	✓	✓
Drawing of the construction layout (epure)	v2.2		✓	✓
Drawig of the sub-style line		✓	✓	✓
Drawing of the meridian line		✓	✓	✓
Marking of hours in roman or arabic numerals		✓	✓	✓
Selection of the font style for hour marks	v2.2	✓	✓	✓
Drawing of the analemma curve at noon		✓	✓	✓
Drawing of analemma curves on every hour lines		✓	✓	✓
Text frames with selection of text font and style	v2.0	✓	✓	✓
Selection of a mottoe from a predefined list	v2.0	✓	✓	✓
Drawing of Zodiac symbols	v2.0	✓	✓	✓
Image frames compatible with BMP, JPG, GIF, WMF	v2.0		✓	✓

Tables and graphs		Shadows	Shadows Expert	Shadows Pro
Coordinates of hour lines		✓	✓	✓
Coordinates of declination lines		✓	✓	✓
Coordinates of the equinoxial line	v2.0	✓	✓	✓
Drawing of a ruler to draw the equinoxial line	v2.0	✓	✓	✓
Graph of the equation of time over the year		✓	✓	✓
Graph of the equation of time month by month	v2.0	✓	✓	✓
Table of values of the equation of time		✓	✓	✓
Vertical curve of the equation of time		✓	✓	✓
Graph of visibility of the shadow on a meridian dial				✓
Cartesian solar graph	v2.1			✓
Polar solar graph	v3.0			✓
Création of an horizon mask on the solar graph	v2.1			✓
Types of sundials		Shadows	Shadows Expert	Shadows Pro
Horizontal sundial		✓	✓	✓
Direct south vertical sundial		✓	✓	✓
Declining vertical sundial (any declination)		✓	✓	✓
Equatorial sundial (upper and lower plates)		✓	✓	✓
Polar sundial		✓	✓	✓
Declining and reclining sundial			✓	✓
Meridian dial (hours between 11am & 1pm)	v2.0		✓	✓
Horizontal analemmatic sundial	v2.0		✓	✓
Vertical analemmatic sundial	v2.0		✓	✓
Vertical declining analemmatic sundial	v2.1			✓
Armillary ring	v2.0		✓	✓
Semi-cylindrical polar sundial without style	v2.0		✓	✓
Cylindrical shepherd dial	v2.0		✓	✓
Horizontal bifilar sundial	v2.1			✓
Vertical declining bifilar sundial	v2.1			✓
Types of astrolabes		Shadows	Shadows Expert	Shadows Pro
Planispheric astrolabe	v3.0			✓

Indications given by the sundial		Shadows	Shadows Expert	Shadows Pro
Hour lines		✓	✓	✓
Declination lines after the ecliptic longitude		✓	✓	✓
Declination lines after the solar declination	v2.0		✓	✓
Declination lines after the date	v2.0		✓	✓
Curves of Sun's altitude	v2.1			✓
Curves of Sun's azimuth	v2.1			✓
Italic hours	v2.0		✓	✓
Babylonian hours	v2.0		✓	✓
Temporary hours (unequal)	v3.0			✓
Sidereal hours	v3.0			✓
Import / Export functions		Shadows	Shadows Expert	Shadows Pro
Exportation of coordinates in a text file	v2.0		✓	✓
Exportation of drawings in vector EMF format	v2.0			✓
Exportation of drawings in AutoCAD DXF format	v2.1			✓
Exportation of drawings in bitmap image format (BMP, JPG)	v2.0		✓	✓
Copy of drawings in vector format in the clipboard	v2.0		✓	✓
Copy of drawings in bitmap format in the clipboard	v2.0	✓	✓	✓
AVI movies from sundial animation	v3.0			✓
Other features		Shadows	Shadows Expert	Shadows Pro
Animation of the shadow of the style (automatic & by step)	v2.0	✓	✓	✓
Simulation of the shadow of the style at a given instant	v2.0			✓
Simulation of the shadow cast by a roof	v2.1		✓	✓
Animation on the orientation and reclination of the sundial	v2.1		✓	✓
Animation on the latitude of the sundial	v2.1			✓
Rotation of the rete and alidade on an astrolabe	v3.0	✓	✓	✓
Astronomical ephemeris for a given date and location	v2.0	✓	✓	✓
Astronomical ephemeris updated in real time	v2.0	✓	✓	✓
Generator of astronomical ephemeris tables in a text file	v2.1	✓	✓	✓
Drawing of an accurate protractor		✓	✓	✓
Drawing of an azimuth circle	v2.0	✓	✓	✓
Drawing of a tangent network used to measure a wall	v2.1	✓	✓	✓
Decimal degrees converter	v2.0	✓	✓	✓
Helper tool for the measurement of the wall declination	v2.2		✓	✓
Helper tool for calculating sundial parameters from a photo	v3.0			✓

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