DigiTerra Explorer 7

	Basic	Advanced	Professional

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Files	Basic	Advanced	Professional
Supported map and mapping project formats			
DigiTerra Explorer Map (.EXP)	✓	✓	✓
DigiTerra Map Pack (.DMP)	✗	✓	✓
Embedded DigiTerra Map Pack (.DMP in .EXP file)	✗	✗	✓
Hungarian Digital Base Map (.DAT)	✗	✗	✓
OpenGIS KML Map file (.KML)	✗	✗	✓
OpenGIS KML Map file (.KMZ)	✗	✗	☀
OpenGIS GML Map file (.GML)	✗	✗	✓
ArcPad Map file (.APM)	✗	✗	✓
SQLite 3 Geodatabase file (.DB3)	✗	✗	☀
Supported native vector layer formats (read & write)			
DigiTerra (.MAP)	✓	✓	✓
ESRI Shape (.SHP)	✗	✓	✓
Zipped ESRI Shape (.ZIP)	✗	✗	☀
Mapinfo Interchange (.MIF)	✗	✓	✓
Microstation (.DGN)	✗	✗	✓
AutoDesk (.DXF)	✗	✗	✓
GPS logfile (.LOG)	✗	✗	✓
Coordinates (point) (.CRD)	✗	✗	✓
Coordinates (shape) (.DAT)	✗	✗	✓
Atlas GIS (.BNA)	✗	✗	✓
Triangulated Irregular Network (.TIN)	✗	✗	☀
Supported raster layer formats			
JPEG file (.JPG)	✓	✓	✓
JPEG2000 file (.JP2)	✗	✓	✓
Er-Mapper Wavelet (.ECW)	✗	✓	✓
Tagged Image file (.TIF)	✗	✓	✓
DigiTerra Raster (.RAS)	✗	✓	✓
ESRI Raster (.BIL)	✗	✗	✓
ERDAS (.LAN)	✗	✗	✓
Er-Mapper (.ERS)	✗	✗	✓
Paintbrush (.PCX)	✗	✗	✓
Portable Nework Graphics (.PNG)	✗	✗	✓
Compressed ARC Digitized Raster Graphics (.LF1, .TF1 - CADRG)	✗	✗	✓
Lizardtech MrSID (.SID) - available only in the desktop version	✗	✗	✓
Windows (.BMP)	✗	✗	✓
Supported text and tabular formats			
AGROCOM Agro-Map (point) (.ANL)	✗	✗	✓
AGROCOM Agro-Map (area) (.GRN)	✗	✗	✓
dBase (.DBF)	✗	✗	✓
DigiTerra (.TAB)	✗	✗	✓
Report (.HTML)	✗	✗	✓
Excel files (.XLS)	✗	✗	✓
Text files (.TXT)	✗	✗	✓
Leica Total Station Data file (.MDT)	✗	✗	✓
File handling commands and features			
Synchronizing the transfer of files between desktop PC and mobile device	✓	✓	✓
Automatic upgrade via internet	✓	✓	✓
Ability to send and receive data files as zipped e-mail attachment (.ZIP) with the associated default e-mail software	✗	✗	✓
Dropbox usage	✗	✗	☀

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Customization

User interface	Basic	Advanced	Professional
Active (pan) frame	✔	✔	✔
Full screen mode	✖	✔	✔
Customizable hierarchical menu (submenu groups are enabled)	✖	✖	✔
Customizable toolbar (only in desktop version)	✖	✖	✔
Multilanguage user interface (easy to translate to any language)	✔	✔	✔
Tool help for toolbar items	✔	✔	✔
Customizable splash screen and application name	☀	☀	☀
Customization options for maps			
Raster smoothing (anti-aliased raster layer display)	✔	✔	✔
Pen tolerance can be assigned for vector layers	✔	✔	✔
Displaying the snapping type on the map for edge and vertex	✔	✔	✔
Adjustable pen tolerance (the default value is 8 pixel)	✖	✔	✔
Adjustable map precision	✔	✔	✔
Selectable projected and geographical coordinate systems	✔	✔	✔
Option to give custom projections and dates: types and parameters of projections, 7 parameter transformation	✖	✔	✔
Calculation between coordinate systems	✖	✔	✔
Mapping project templates can be used in .EXP file format with template layers	✖	✖	☀
Startup map (map/map project usable at startup)	✖	✔	✔
Map background colour	✖	✖	✔
Map highlight (night) colour	✖	✖	✔
Adjustable scale (displayed scale and scale bar)	✔	✔	✔
Adjustable coordinate display: queried coordinate of a position on the map; displaying the coordinates of the current GPS position when GPS is active	✔	✔	✔
Displaying cursor position on the active frame (available only in desktop version)	✔	✔	✔
Speed dependent automatic zooming (in case of activated GPS)	✖	✔	✔
Bookmarks	✖	✖	✔
Customization options for layers			
Adjustable automatic saving for vector layers	✔	✔	✔
Adjustable number of backups for vector layers	✔	✔	✔
Adjustable default feature type (point, line, area) to new layer creation. Default is polygon feature type.	✖	✔	✔
Default raster and vector symbols can be used	✔	✔	✔
Custom raster symbol files can be used. Different symbol size is now supported.	✖	✔	✔
Customization options for attributes			
Adjustable date format	✔	✔	✔
Adjustable length, area and speed units	✔	✔	✔
Adjustable coordinate format	☀	☀	☀
Built-in code dictionary editor	✔	✔	✔
Default code dictionary (editable) can be used for data capturing	✔	✔	✔
Custom code dictionary (editable) can be used for data capturing	✖	✔	✔
Using filters in code dictionary and on the data capture form	✖	✖	☀
Form panel can be used for data capturing	✔	✔	✔
Adjustable list and tree view (hierarchical view) for data capturing	✖	✖	✔
Data field defaults can be used	✔	✔	✔

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Linked attribute tables can be used for data capturing	✖	✖	✔
Data field aliases can be used	✖	✖	✔
Data table template can be used for new layer creation	✖	✖	✔
Create new data table template	✖	✖	✔
Layers			
Managing layers			
Building up maps from layers (new, add, delete)	✔	✔	✔
Editable layer name	✔	✔	✔
Changing layer drawing order	✔	✔	✔
Sorting layers by name and feature type	✔	✔	✔
Turning layer visibility on or off	✔	✔	✔
Selecting a layer for identifying	✔	✔	✔
Selecting a layer for editing	✔	✔	✔
Closing layer for editing	✔	✔	✔
Point info parameter can be used for data capturing on vertices	✖	✖	✔
Selecting a layer for snapping	✔	✔	✔
Displaying layers depending on scale	✖	✔	✔
Automatic creation of layer scale intervals	✖	✔	✔
Supporting geodatabase layers (new, save (export), add)	✖	✖	☀
Vector layers			
Save layer as, layer export	✔	✔	✔
Save selected features as a new layer (layer export)	✖	✖	✔
Editable line colour, fill colour, symbol, line type, fill type, photographic textures	✔	✔	✔
Labelling by any three data fields	✔	✔	✔
Labelling options: font, size, foreground and background colour, styles, outlining and framing	✔	✔	✔
Labeling by geometry (vertices, length)	✔	✔	✔
Scale and distance dependent labelling	✔	✔	✔
Examining overlapping labels	✔	✔	✔
Displaying symbols depending on scale	✔	✔	✔
Displaying vector layer parameters	✔	✔	✔
Adjustable transparency	✖	✔	✔
Point layer display from text file (based on X, Y coordinates)	✖	✖	✔
Raster layers			
Displaying raster layer parameters	✔	✔	✔
Adjustable brightness	✖	✔	✔
Adjustable contrast	✖	✔	✔
Adjustable transparency	✖	✔	✔
Supporting default transparency for single band images	✖	✔	✔
Adjustable RGB transparency	✖	✔	✔
Editable georeferece parameters	✖	✖	✔
Georeference of raster layer can be exported as standard World file	✖	✖	✔
Thematic mapping			
Classification by data fields	✖	✔	✔
Options per class: line colour, fill colour, symbol, line type, fill type, photographic textures	✖	✔	✔
Raster symbols are supported in any size	✖	✔	✔
Classifier methods: unique value, modulo, natural breaks, equal quantities, equal intervals, given intervals, normal distribution	✖	✔	✔
Create new class, delete class	✖	✔	✔
Class definitions can be saved and apply (.CLS, .TXT)	✖	✔	✔
50 colour palettes for toning	✖	✔	✔

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Scale dependent display for classes	✖	✔	✔
Scale dependent labelling for classes	✖	✔	✔
Editable class-value and class-label	✖	✔	✔
Attributes			
Common functions			
Browsing and editing data tables	✔	✔	✔
Creating new data tables	✖	✖	✔
Creating new data field	✔	✔	✔
Changing the order of data fields	✔	✔	✔
Linked file to record (e.g.. image, video, Excel ...etc)	✖	✔	✔
Data field statistics (class, num, sum, mean, dev, min., max.)	✔	✔	✔
Creating new record	✖	✖	✔
Deleting record	✖	✖	✔
Erasing records	✖	✖	✔
Copy attribute table onto clipboard	✖	✔	✔
Exporting attribute tables	✖	✖	✔
GPS point change function	✖	✖	✔
Default data field values			
Copy last value	✔	✔	✔
Increment last value	✔	✔	✔
Copy nearest	✖	✖	✔
Creation time	✔	✔	✔
GPS Time	✔	✔	✔
Area of Geometry (m2)	✖	✔	✔
Area of Geometry (ha)	✖	✔	✔
Area of Geometry (ac)	✖	✔	✔
Area (custom)	✔	✔	✔
Perimeter of Geometry (m)	✖	✔	✔
Perimeter of Geometry (km)	✖	✔	✔
Perimeter (custom)	✔	✔	✔
Length of Geometry (m)	✖	✔	✔
Length of Geometry (km)	✖	✔	✔
Length (custom)	✔	✔	✔
Azimuth angle	✖	✖	✔
Easting coordinate	✔	✔	✔
Northing coordinate	✔	✔	✔
Altitude	✔	✔	✔
PDOP value	✔	✔	✔
Measure reliability	✖	✖	✔
Measure limit	✖	✖	✔
Satellites used	✔	✔	✔
Satellites in view	✔	✔	✔
Differential correction ratio	✖	✔	✔
Latitude	✔	✔	✔
Longitude	✔	✔	✔
Height above ellipsoid	✖	✔	✔
GPS heading	✖	✔	✔
DGPS fix rate	✖	✖	✔
Distance to last object (custom)	✖	✖	✔
Speed (m/s)	✖	✔	✔
Speed (custom)	✖	✔	✔
Measure identifier	✖	✖	✔
Unique identifier (GUID)	✖	✖	✔
Username	✖	✖	✔
MGRS	✖	✖	✔

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Horizontal error	✖	✖	✔
Vertical error	✖	✖	✔
PPS fix rate	✖	✖	✔
RTK fix rate	✖	✖	✔
Float RTK rate	✖	✖	✔
Differential correction Age	✖	✖	✔
Correction type	✖	✖	✔
Default data field rules			
Read only	✖	✖	✔
Not null	✖	✖	✔
Unique values	✖	✖	✔
Range	✖	✖	✔
Valid values	✖	✖	✔
Editing functions			
Drawing point, line and area features	✔	✔	✔
Drawing point, line and area features by coordinates	✔	✔	✔
Insert vertex during the drawing by GPS position	✖	✔	✔
Drawing new part (island or multipart feature)	✔	✔	✔
Drawing freehand line, freehand area, rectangle, circle, ellipse	✖	✔	✔
Deleting selected features	✔	✔	✔
Rotating selected feature	✖	✔	✔
Moving selected feature	✖	✔	✔
Scaling selected feature	✖	✔	✔
Adding new part(s) to an existing feature to create multi feature geometry	✖	✖	✔
Flipping the vertex order of a selected polyline	✖	✖	✔
Delete, rotate, move, scale functions can be used on selected features	✖	✖	✔
Insert vertices	✖	✔	✔
Delete vertices	✖	✔	✔
Move vertices	✖	✔	✔
Edit vertices	✖	✔	✔
Edit vertices by coordinates	✖	✔	✔
Edit vertices by GPS position	✖	✔	✔
Undo	✔	✔	✔
Merging, Exploding selected features	✖	✖	✔
View functions			
Dynamic zooming	✔	✔	✔
Zooming by window	✖	✔	✔
Set scale	✔	✔	✔
Zoom to GPS position	✔	✔	✔
Zoom to full extent	✖	✔	✔
Zoom to active layer	✖	✔	✔
Zoom to selected feature	✖	✔	✔
Pan	✔	✔	✔
Scroll	✖	✔	✔
Rotate (perspective display)	✖	✔	✔
Rotating map according to GPS course	✔	✔	✔
Above	✖	✔	✔
Creating bookmarks	✖	✖	✔
Displaying last view, next view	✖	✔	✔
3D view	✖	✖	☀
Show in Google Maps	✖	✖	☀
Show in Bing Maps	✖	✖	☀

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Refreshing Map view	☀	☀	☀
Query functions			
Request information from feature	✓	✓	✓
Show on map function	✓	✓	✓
Getting information on geometric features and display coordinate list	✓	✓	✓
Filtering records by query	✗	✓	✓
Sorting records	✗	✓	✓
Select features (multiple selection by geometry or by layer)	✗	✗	✓
Select features by GPS position	✗	✓	✓
Position, angle, length, area and perimeter measuring on the map	✓	✓	✓
Radial measure on the map	✗	✗	✓
Freehand measure on the map	✗	✗	✓
GPS functions and special GPS related tools			
Support for NMEA 0183 protocol	✓	✓	✓
SiRF protocol support for switch off/on static navigation	✓	✓	✓
Support for Trimble TSIP protocol	✓	✓	✓
Individual and automatic GPS communication port searching and settings	✓	✓	✓
Displaying GPS position, PDOP, HDOP, VDOP, SNR, satellites, DGPS	✓	✓	✓
Displaying GPS status with colour codes on map	✓	✓	✓
Displaying GPS position on map view	☀	☀	☀
GPS statistics: averaged horizontal, vertical position coordinates, dN, dE, dH, displayed error ellipse on the map view. All information can be saved and reloadable.	✗	✗	✓
GPS skyplot	✓	✓	✓
Displaying SBAS and GLONASS satellites on the skyplot	✓	✓	✓
Data capturing for post processing can be used on Astech receivers	✗	✗	✓
Data capturing for post processing can be used on Trimble receivers (.SSF writing)	✗	✗	✓
Built-in RTCM (NTRIP) client	✗	✗	✓
Serial command line interface client	✗	✗	☀
Support for GLONASS enabled receivers	✓	✓	✓
Advanced GPS measuring functions (offsetting GPS position, averaging, simultaneous collection of data on several layers, GPS position filtering, multi-part polygon support, generalization)	✓	✓	✓
Neighboring area mapping feature: adjacent areas can be measured without doing a repeated survey on the common side	✗	✗	✓
Data capturing to vertices of polyline and polygon features (point info layer)	✗	✗	✓
Alarm if GPS position has low quality	✓	✓	✓
Writing GPS logfile	✗	✗	✓
GPS log analysis	✗	✗	✓
FieldWork	✗	✗	✓
GPS guidance	✗	✗	✓
Navigate to target and use alerts during the navigation by selected position or by coordinates	✗	✓	✓
Navigate to target by selected data record	✗	✗	✓
Selectable projected and geographical coordinate systems for GPS data capturing	✓	✓	✓

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External device related functions	Basic	Advanced	Professional
Cable locator support: Leica, 3M	✗	✗	✓
Support for NMEA compatible laser rangefinders: TruPulse, Laser Ace	✗	✗	✓
Support for Leica D8 laser rangefinder: distance intersection	✗	✗	✓
Support for laser rangefinder with built in electronic compass: polar surveying from start point, receiving GPS position at standpoint and final point	✗	✗	✓
Support for built-in digital camera	✗	✓	✓
Real-time attachment of photo to an feature selected on the form, record panel	✗	✓	✓
External digital camera support via Wi-Fi and Bluetooth (Ricoh Caplio)	✗	✗	✓
Real-time attachment of photo, and video file to an feature selected on the form, record panel or map (Ricoh Caplio)	✗	✗	✓
Displaying raster image in the appropriate position if the header (EXIF) of the raster image contains the LAT, LON coordinates	✗	✗	✓
Camera control	✗	✗	✓
Special tools			
Raster orientation	✗	✗	✓
Reprojection	✗	✗	☀
Generating TIN layers from text files, attibute tables	✗	✗	☀
Raster export (in one file, in tileset)	✗	✗	☀
Survey (rectangular survey, polar survey, angle intersection, distance intersection, polar survey from start point)	✗	✗	✓
Divide (given number, equal length, by distances, by ratios)	✗	✗	✓
Sampling	✗	✗	✓
Change layer	✗	✗	✓
Change layer can be used on selected features	✗	✗	✓
Buffer zone generation	✗	✗	✓
Area divisioning (given number of polygons, equal area, given areas, given ratios)	✗	✗	✓
Area delineation	✗	✗	✓
Area join	✗	✗	✓
Printing			
Printing map	✓	✓	✓
Printing attribute data	✗	✓	✓
Printing area report	✗	✗	✓