

Valid as of February 2023













REGISTRATION, VISUALISATION, MODELLING & QUERY TOOLS	FIELD 360	REGISTER 360 PLUS (BLK Edition)	REGISTER 360 PLUS	MODEL
Large project support		•	•	•
Optimised for Tablets	•			
Touch navigation, Pan, Zoom	•			
Project and Setup Explorer	•			
Scan control	•			
Complete loop closure registration	•			
Optimised for smartphones	•			
3D navigation, Pan, Zoom, Rotate	•	•	•	•
3D mouse support				•
Quick Move				•
Panoramic view mode (points)	•	•	•	•
Panoramic view mode (image)	•	•	•	•
Align to surface view mode		•	•	
Quick orthographic orientation		•		
Cloud Level of Detail for fast visualisation	•	•	•	•
Model Level of Detail for fast visualisation				•
Decimation of point clouds Colortable levels of point cloud density				•
Selectable levels of point cloud density Quickly show/hide point clouds	A		_	•
HDR imagery viewing	• •	•	•	•
Toggle Visibility	V	V	V	
Setups		•	•	•
Setup labels		•	•	•
Links		•	•	•
GeoTags		•	•	•
Control labels		•	•	<u> </u>
Point Cloud Colour Map Viewing Options		· ·	<u> </u>	
Intensity mapping	•	•	•	•
Greyscale	•	•	•	•
Image colour mapping	•	•	•	•
Infrared	•	•	•	•
Elevation based colour mapping	*			•
Colour clouds per setup		•	•	
Colour clouds per bundle		•	•	
Gradient Background		•	•	•
Manually map external digital photo to point clouds				
(Texture cube map, not pano)				•
Create Multi-image from cube-mapped images		•	•	•
Multi-image blending		•	•	•
Texture map colours onto point clouds	•	•	•	•
Limit Box for efficient viewing and interaction		•	•	•
of selected regions				
Limit Box Manager to organise multiple limit boxes				•
QuickSlice				•
Colour clouds by setup				•
TruSlicer Slice along X,Y and Z axis		•	•	
		•		
Colour clouds by setup		•	•	
Set Limit Box by fence Cutplane manager and tools				•
Auto Bundle (grouping) of scans		•	•	¥
Visualise bundle's Link network	•	•	•	
View multiple setups and bundles in same view	•	•	•	
Global registration of multiple scans		•	•	
Geo-Referencing/Control				
Applied control		•	•	
Geometric matching of control to bundle		•	•	
Cloud-to-Cloud registration	•	•	•	
Auto Align Scans	•	•	•	
Smart Align for Auto Align	•	•	•	
Visual Alignment including tilted scans	•	•	•	
Bundle/Group Visual Alignment		•	•	
- San Say Trader Anguitette				

REGISTRATION, VISUALISATION, MODELLING & QUERY TOOLS	FIELD 360	REGISTER 360 PLUS	REGISTER 360 PLUS	MODEL
		(BLK Edition)		
Automatic orientation for Visual Alignment	•			
Automated registration using Black & White targets		•	•	
Automated registration using sphere targets		•	•	
Optional prioritisation of target-based registration over Cloud-to-Cloud registration		•	•	
istration Automated registration across Sitemaps		•	•	
Automatic registration from RTC360 VIS data	•	•	•	
Loop closure of BLK2GO data	<u> </u>	•	•	
Merge projects		•	•	
Editing target labels/names		•	•	
View scanner locations	•	•	•	•
Live Scanner locations Live Scanner location tracking	•	V	V	•
	•			
Unify point clouds Pagin spreadual design 5-2D drawing tools				•
Basic conceptual design & 2D drawing tools				
Insertion of modelled objects/geometry				•
Replication and editing of modelled objects				•
Planar Patch Editing		T		1 .
Make Square or Rectangular				•
Create/Fill Hole				•
User-defined quality-of-fit checks				•
Region Growing				
Plane				•
Cylinder				•
Sphere				•
Smooth surface to segment extraneous data		•	•	•
Automated Pipe Run with elbows				•
Virtual Surveyor™ to assign survey feature codes to points				•
Mesh			T	1
Creation (basic, complex, TIN)				•
Intelligent decimation				•
Decimation based on user-specified grid spacing				•
Polyline and breakline support				•
Delete and add faces				•
Fill in holes				•
Generate contours from meshes				•
Scan Cleaning				
Single scan cleaning		•	•	
Bundle cleaning		•	•	
Cross-SiteMap cleaning		•	•	
Support for double scan cleaning		•	•	•
Detect Moved Objects filtering		•	•	
Smooth surface cleaning		•	•	•
Surface Deviation				
Cut/fill contours				•
Table output on user-specified grid				•
Points on user-specified grid				•
Generate Cross-Sections through Point Clouds along an alignment				
Alignment/Station Manager				•
Create Lines at Station				•
Create COGO Points, Breaklines & Cross Section Lines				•
Create profiles, plans and sections				•
Import LandXML Alignment				•
Create, Save, @ Load Station templates				•
Secondary Plan View window				•
Ortho Image extraction		•	•	•
User-defined QA parameters mapped to link and bundle errors				
Color-coded		•	•	
Optimised with graphics for colour-blind users		•	•	
Station Notation display relative to an alignment			·	•
Fit edge template for curve extraction (e.g. curbs, flowlines)				•
Measure & Dimension Point Clouds & Models				•
Simple/Advanced measurement options		•	•	
Simple, tovariced incubarement options		•	•	

	REGISTRATION, VISUALISATION, MODELLING & QUERY TOOLS	FIELD 360	REGISTER 360 PLUS	REGISTER 360 PLUS	MODEL
MAY, AV, 24 Scharces					
Comment Collect Volume		•			
Area (Dokgon) **Not incidence of the control of th			•	•	
Areas Diviging) Areas Diviging on Workshort (Septiment) Angle to Reconstructed Angle to Reconstructed Angle Reconstructed Angle to Reconstructed Angle Reconstructed Reconstructed Reconstructed Angle Reconstructed Rec					
Hotocrotal and Vertical Certainnes Angle to Instancial Book engle Social Regions Social Regions Social Regions Social Regions Angle to Vertical Social Regions Angle to Vertical Social Regions Angle to Regions Angle to Vertical Social Regions Angle to Vertical Social Regions Angle to Regions An			•	•	•
Angle to Nortroal Angle Control An		•			
Angle to Vertical Back angle Cutoffit solume Paging Lekenf query Automated Value (Cyclone FIFD 360 mocuruments) Fire (Cyclone FIFD 360 moc					•
Anagle to Vertical Back anagle Cut/fl wature Paging Takefort query Automated Visual Interference checking Valuation Stylene EID 3-00 measurements Fit springers, structural street time catelogues Fit springers Fit			•	•	
Bask angle (Juffel volume Priore betwelf cuery Automated Value Priore betwelf cuery Automated Value Priore betwelf cuery Automated Value Priore betwelf cuery Valuelise Cyclone PIELD 360 measurements Pri sylonders, structural steef from catalogues Interpriore components from catalogues Interpriore components from catalogues Interpriore components from catalogues Valuelise Priore of the Cyclone PIELD 360 measurements Priore developments from catalogues Valuelise Value Priore of Value Value Priore Value Priore Value Priore Value Priore Value V					•
GotPfiling tableff overy Automated vious di interference checking Automated vious di interference checking *** Pursuables Cytone ELD 300 measurements *** Fit cylinders, structural steef from catalogues Fit cylinders and catalogues (reducer, clow, branch, llange, value) Plang Mode to add insulation thickness, inire ID, specification, symbol Key Set object creation parameters Forest catalogue object annotation July Initiative costs, and annotated verifices, spheres, to ASCI General C2 theology and the cost of the co	Angle to Vertical				•
Pigning takeoff query	Back angle				•
Automated visual interference checking	Cut/fill volume				•
Number Cyclore FIE.D 360 measurements	Piping takeoff query				•
File cylinders, structural steel from catalogues (reducer, ebow, branch, flange, saket (reducer) and catalogues (reducer, ebow, branch, flange, saket (reducer) and catalogues (reducer), ebow, branch, flange, saket (reducer) and catalogues (reducer), ebow, branch (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (SECY) File control of the catalogues (reducer), symbol Key (reducer),	Automated visual interference checking				•
Insert piping components from catalogues (reducer, ellow, branch, flange, valve) Piping Mode to add insulation thickness, Line ID, specification, Symbol Key (SKYY) Set object creation parameters Ceate and manage object annotation Ceate and manage object annotation Comerate 2D drawings from 3D models Comerate 2D drawings f	Visualise Cyclone FIELD 360 measurements	•			•
Insert piping components from catalogues (reducer, ellow, branch, flange, valve) Piping Mode to add insulation thickness, Line ID, specification, Symbol Key (SKYY) Set object creation parameters Ceate and manage object annotation Ceate and manage object annotation Comerate 2D drawings from 3D models Comerate 2D drawings f	Fit cylinders, structural steel from catalogues				•
valve					_
SERTY Set object creation parameters	valve)				<u> </u>
Set object creation parameters					•
Greate and manage object amontation					•
Output feature codes and annotated vertices, spheres, to ASCII () () () () () () () () () ()					
Generate 2D drawings from 3D models					
Scanner simulation					•
Scanner simulation • • UCS Tools Williple coordinate system support • • • Create UCS from walls • • • • Create UCS from room corner • • • • Set NYZ coordinate from pick point • • • • Assign colours & materials to objects •					•
Wildlight coordinate system support Image: Create UCS from walls	3D redlining				•
Multiple coordinate system support Create UCS from roan corner Set XYZ coordinate from pick point Set YZ coordinate from pick point Set Sever Set Sever	Scanner simulation				•
Create UCS from valls ♦ ♦ Create UCS from room corner ♦ ♦ Set X72 condinate from pick point ♦ ♦ Assign colours & materials to objects ♦ ♦ Layers Create Layers ♦ ♦ ♦ Manage Layers ♦ ♦ ♦ Save/restore viewpoints ♦ ♦ ♦ Object Grouping ♦ ♦ ♦ Compling ♦ ♦ ♦ Object Grouping ♦ ♦ ♦ Object Grouping ♦ ♦ ♦ Counting ♦ ♦ ♦ ♦ Box Complication of Complication and Expertation	UCS Tools				
Create UCS from room corner	Multiple coordinate system support		*	•	•
Set XYZ coordinate from pick point •	Create UCS from walls		•	•	
Set XYZ coordinate from pick point •			*	•	
Assign colours & materials to objects • Layers Create Layers • • Manage Layers •					
Leyers Create Layers Image Layers			•	· ·	<u> </u>
Create Layers ● Manage Layers ● Save/restore viewpoints ● Object Grouping ● Ceometry Types that can be created: HDS spherical targets ● Black/White targets ● Patch (plane) ● Extruded patch ● Box ● Corner ● Steel shapele, I-beam) ● Cylinder ● Sphere ● Vertex ● Line ● Elbow, Reducing Elbow ● Cone ● Torus ● Reducer (Eccentric, Concentric) ● Finge (Blind, Weld-Neck) ● Pipe Tee ● Valve ● Polyine, Polygon ● Rectangle, Square ● Arc, Circle ● Ellipse ● Cubic spline ● Point-of-view camera ●					V
Manage Layers •	·				
Save/restore viewpoints 6 6 6 Object Grouping 6 6 6 Ceometry Types that can be created: ***********************************					
Object Grouping ● ● Geometry Types that can be created: Image: Company of the park of t					
Geometry Types that can be created: ●					•
### DS spherical targets ### Black/White targets ### Patch (plane) ### Extruded patch ### Box ### Corner ### Steel shape(e.g. I-beam) ### Cylinder ### Sphere ### Corner ### Sphere ### User					•
Black/White targets	Geometry Types that can be created:				
Patch (plane) • Extruded patch • Box • Corner • Steel shape(e.g. I-beam) • Cylinder • Sphere • Vertex • Line • Elbow, Reducing Elbow • Cone • Torus • Reducer (Eccentric, Concentric) • Flange (Blind, Weld-Neck) • Pipe Tee • Valve • Polyline, Polygon • Rectangle, Square • Arc, Circle • Ellipse • Cubic spline • Point-of-view camera • Point-of-view camera (Height) •	HDS spherical targets		*	•	
Extruded patch Box Corner Steel shape(e.g. I-beam) Cylinder Sphere Vertex Line Elbow, Reducing Elbow Cone Torus Reducer (Eccentric, Concentric) Flange (Blind, Weld-Neck) Pipe Tee Valve Polyline, Polygon Rectangle, Square Arc, Circle Ellipse Cubic spline Point-of-view camera Point-of-view camera (Cone	Black/White targets		•	•	
Box Corner Corn	Patch (plane)				•
Box	Extruded patch				•
Corner • Steel shape(e.g. I-beam) • Cylinder • Sphere • Vertex • Line • Elbow, Reducing Elbow • Cone • Torus • Reducer (Eccentric, Concentric) • Flange (Blind, Weld-Neck) • Pipe Tee • Valve • Polyline, Polygon • Rectangle, Square • Arc, Circle • Ellipse • Cubic spline • Point-of-view camera • Point-of-view camera (Height) •					
Steel shape(e.g. I-beam) • Cylinder • Sphere • Vertex • Line • Elbow, Reducing Elbow • Cone • Torus • Reducer (Eccentric, Concentric) • Flange (Blind, Weld-Neck) • Pipe Tee • Valve • Polyline, Polygon • Rectangle, Square • Arc, Circle • Ellipse • Cubic spline • Point-of-view camera • Point-of-view camera (Height) •					•
Cylinder • Sphere • Vertex • Line • Elbow, Reducing Elbow • Cone • Torus • Reducer (Eccentric, Concentric) • Flange (Blind, Weld-Neck) • Pipe Tee • Valve • Polyline, Polygon • Rectangle, Square • Arc, Circle • Ellipse • Cubic spline • Point-of-view camera • Point-of-view camera (Height) •					
Sphere • Vertex • Line • Elbow, Reducing Elbow • Cone • Torus • Reducer (Eccentric, Concentric) • Flange (Blind, Weld-Neck) • Pipe Tee • Valve • Polyline, Polygon • Rectangle, Square • Arc, Circle • Ellipse • Cubic spline • Point-of-view camera • Point-of-view camera (Height) •					
Vertex ◆ Line ◆ Elbow, Reducing Elbow ◆ Cone ◆ Torus ◆ Reducer (Eccentric, Concentric) ◆ Flange (Blind, Weld-Neck) ◆ Pipe Tee ◆ Valve ◆ Polyline, Polygon ◆ Rectangle, Square ◆ Arc, Circle ◆ Ellipse ◆ Cubic spline ◆ Point-of-view camera ◆ Point-of-view camera (Height) ◆	·				
Line ◆ Elbow, Reducing Elbow ◆ Cone ◆ Torus ◆ Reducer (Eccentric, Concentric) ◆ Flange (Blind, Weld-Neck) ◆ Pipe Tee ◆ Valve ◆ Polyline, Polygon ◆ Rectangle, Square ◆ Arc, Circle ◆ Ellipse ◆ Cubic spline ◆ Point-of-view camera ◆ Point-of-view camera (Height) ◆					
Elbow, Reducing Elbow Cone Torus Reducer (Eccentric, Concentric) Flange (Blind, Weld-Neck) Pipe Tee Valve Polyline, Polygon Rectangle, Square Arc, Circle Ellipse Cubic spline Point-of-view camera Point-of-view camera Flange (Biow, Reducing Elbow • • • • • • • • • • • • •					
Cone ◆ Torus ◆ Reducer (Eccentric, Concentric) ◆ Flange (Blind, Weld-Neck) ◆ Pipe Tee ◆ Valve ◆ Polyline, Polygon ◆ Rectangle, Square ◆ Arc, Circle ◆ Ellipse ◆ Cubic spline ◆ Point-of-view camera ◆ Point-of-view camera (Height) ◆					•
Torus Reducer (Eccentric, Concentric) Flange (Blind, Weld-Neck) Pipe Tee Valve Polyline, Polygon Rectangle, Square Arc, Circle Ellipse Cubic spline Point-of-view camera (Height)	Elbow, Reducing Elbow				•
Reducer (Eccentric, Concentric) Flange (Blind, Weld-Neck) Pipe Tee Valve Valve Polyline, Polygon Rectangle, Square Arc, Circle Ellipse Cubic spline Point-of-view camera (Height)	Cone				•
Flange (Blind, Weld-Neck) Pipe Tee Valve Polyline, Polygon Rectangle, Square Arc, Circle Ellipse Cubic spline Point-of-view camera (Height)	Torus				•
Flange (Blind, Weld-Neck) Pipe Tee Valve Polyline, Polygon Rectangle, Square Arc, Circle Ellipse Cubic spline Point-of-view camera (Height)	Reducer (Eccentric, Concentric)				•
Pipe Tee ◆ Valve ◆ Polyline, Polygon ◆ Rectangle, Square ◆ Arc, Circle ◆ Ellipse ◆ Cubic spline ◆ Point-of-view camera ◆ Point-of-view camera (Height) ◆					•
Valve ◆ Polyline, Polygon ◆ Rectangle, Square ◆ Arc, Circle ◆ Ellipse ◆ Cubic spline ◆ Point-of-view camera ◆ Point-of-view camera (Height) ◆					•
Polyline, Polygon ◆ Rectangle, Square ◆ Arc, Circle ◆ Ellipse ◆ Cubic spline ◆ Point-of-view camera ◆ Point-of-view camera (Height) ◆	·				
Rectangle, Square ◆ Arc, Circle ◆ Ellipse ◆ Cubic spline ◆ Point-of-view camera ◆ Point-of-view camera (Height) ◆					
Arc, Circle ◆ Ellipse ◆ Cubic spline ◆ Point-of-view camera ◆ Point-of-view camera (Height) ◆					
Ellipse ◆ Cubic spline ◆ Point-of-view camera ◆ Point-of-view camera (Height) ◆	- '				
Cubic spline Point-of-view camera Point-of-view camera (Height) ◆ Point-of-view camera (Height)					•
Point-of-view camera	Ellipse				•
Point-of-view camera	Cubic spline				•
Point-of-view camera (Height)					•
					•
	Pointed (Ballistic) cone				•

REGISTRATION, VISUALISATION, MODELLING & QUERY TOOLS	FIELD 360	REGISTER 360 PLUS (BLK Edition)	REGISTER 360 PLUS	MODEL
Environmental lighting				•
Create fly-throughs and output sequence of image files or .AVI (Audio Video				
Interleave) file				•
Elevation check				•
Pipe Modelling user interface				•
Auto Black & White Target Extraction		•	•	
Estimate normals		•	•	•
Scripting				•
Undo/Redo Operations within Review & Optimise		I .		
SiteMap creation		•	•	
Applied control			•	
Optimisation Croate (adit targets		*	•	
Create/edit targets		•	•	
Create/edit GeoTags Create/edit Assets		•	•	
Delete Setups		•	•	
Create/delete/modify links		•	•	
TRUSPACE/KEYPLAN/SITEMAP/MAP	FIELD 360	REGISTER 360 PLUS	REGISTER 360 PLUS	MODEL
		(BLK Edition)		
Model Library				•
Automatic Pipe Finder				•
Auto Generate Patches				•
ModelSpace inventory				•
GeoTagging	I	1		
In-field GeoTagging	•			
Create GeoTags	•	•	•	•
Target Tagging	•			
Floor Flatness/Floor Levelness				•
Registration Reporting	I	1 .		
Customisable Registration Report		•	•	
Basic Registration Report			•	•
Open\View KeyPlan Create SiteMap		•	•	•
Create Map from OpenStreetMap's Slippy map (satellite or streetmap view)		•	•	
GPS locate Setups on satellite map		•	•	
Create Hyper links in SiteMaps		•	•	
Edit Hyperlinks in SiteMaps		•	•	
Create KeyPlan				•
Edit KeyPlan				•
Open TruSpace				•
Extract targets in TruSpace				•
Measurements in TruSpace				•
View Multi-Image in TruSpace				•
Change Colour Mapping (RGB, Intensity, Greyscale, Infrared)		•	•	•
Temperature readout within infrared view		•	•	•
Open ModelSpace view from TruSpace				•
Publish TruView from KeyPlan		•	•	* *
Sync view- TruSpace to ModelSpace				•
Quick Limit box from TruSpace to ModelSpace				•
Load Points within Fence				•
Produce Floor Plans and Models	•			
DATA IMPORT	FIELD 360	REGISTER 360 PLUS (BLK Edition)	REGISTER 360 PLUS	MODEL
ASCII (XYZ, SVY, PTS, PTX (feet and meters), TXT, Customised format)		(BER Edition)	PTX only	•
Control file in TXT format		•	+	
Control file in CSV format	•			
PTZ, PTG, PTB			PTG only	*
Contains Object Evaluation (COE) forward (from AutoCAE) Misrochation via COE				
Cyclone Object Exchange (COE) format (from AutoCAD, MicroStation, via COE				A
Data Transfer)				•
Data Transfer) ZFS, ZFC, ZFPRJ			•	* *
Data Transfer) ZFS, ZFC, ZFPRJ BMP, TIFF, JPG, PNG		•	* *	
Data Transfer) ZFS, ZFC, ZFPRJ BMP, TIFF, JPG, PNG Batch Import and Auto-Align Images (supports iSTAR, Nodal Ninja, Spheron)		+		•
Data Transfer) ZFS, ZFC, ZFPRJ BMP, TIFF, JPG, PNG		1	•	*

DATA IMPORT	FIELD 360	REGISTER 360 PLUS (BLK Edition)	REGISTER 360 PLUS	MODEL
SIMA		(BER Edition)		•
FARO: fls, fws, frp			•	•
RIEGL: rsp, 3dd			•	
LAS (feet and metres)				•
RCP		•	•	•
Import select setups from E57, PTX and PTG		*	*	<u> </u>
(when contained in file)			•	•
Cyclone REGISTER 360 PLUS archive file (RAF)			•	
Import Cyclone REGISTER 360 PLUS registration versions		•	*	
Import Cyclone REGISTER 360 PLUS (BLK Edition) archive file (RAF)		•	•	
Import Cyclone REGISTER 360 PLUS project				•
Import project data collected on ScanStation C10			•	•
Import project data collected on ScanStation P15/P16/P20/P30/P40/P50			•	*
Real-time data streaming from ScanStation P30/P40/P50				
Import project data collected on Pegasus scanners				•
Import project data collected on Pegasus: Two Ultimate				•
Direct WiFi import of project data collected on BLK360	*	•	•	*
Import project data collected on BLK360 imaging laser scanner including				
Cyclone FIELD 360 links, assets and GeoTags		•	•	
Import project data collected on RTC360 and P-series scanners including				
Cyclone FIELD 360 links, assets and GeoTags			•	•
Adaptive image resolution for RTC360 imports with Low and Medium resolu-				
tion images		•	•	
Import preview data collected on RTC360	*			
Import project data collected on BLK2GO handheld imaging laser scanner		•	•	•
Filter BLK2GO data upon import		•	•	•
E57			•	•
DotProduct: dp				+
HeXML				•
Import *.blk data from BLK360 Data Manager		•	+	+
LGS (Leica Geosystems Universal project file)				+
Batch import of B2G via command line interface		•	•	
Import scans without images		•	•	*
Import .cmi data from BLK3D		•	•	*
Filter points by range		•	•	*
Command Line Interface Importing of RTC360 and BLK360 data stored locally			•	
DATA EXPORT/PUBLISH	FIELD 360	REGISTER 360 PLUS	REGISTER 360 PLUS	MODEL
		(BLK Edition)		
Publish a sub-selection of setups		•	•	•
Publish contents of a LimitBox		•	•	•
AutoCAD DXF R12				•
Cyclone Object Exchange (COE) format (to AutoCAD, MicroStation via COE Data Transfer)				•
		DTV/DTC	DTV/DTC	
ASCII (XYZ, SVY, PTS, PTX, TXT, Customised format)		PTX/PTS	PTX/PTS	•
PTX as separate Setups (feet and metres)		•	•	
PTG		•	•	
BMP, TIFF, JPEG, PNG				•
RCP (unified and separate setups)		•	•	•
LAS (feet and metres)+		•	•	
Ortho Image, GeoTIFF, TWF (World File)				•
Pano Export				
Batch Export of Panoramic images (JPG)		•	+	+
Batch Export of Panoramic images (EXR)+		•	•	•
SDNF 3.0 (Intergraph Steel Detailing Neutral File)				•
PCF (Alias Piping Component File)				•
Leica System 1200				*
LandXML				•
Cyclone II TOPO CWF & PCI				•
CloudWorx-VR ALP*				+
E57 Publish Options				
E57 unified		•	•	•
		l.		

DATA EXPORT/PUBLISH	FIELD 360	REGISTER 360 PLUS (BLK Edition)	REGISTER 360 PLUS	MODEL
E57 separate Setups		•	•	•
Setup sub-selection		•	•	•
LimitBox contents		•	•	•
Compatibility mode for third-party software		•	•	
HDR imagery		•	•	•
Cyclone REGISTER 360 PLUS archive file (RAF)			•	
Imagery Publishing Features				
Publish with/without imagery		•	•	•
Publish HDR imagery		•	•	•
Publish LDR optionally		•	•	•
Cyclone REGISTER 360 PLUS (BLK Edition) archive file (RAF)		•		
LGS (Leica Geosystems Universal project file) including Password-protected		•	•	•
TruView Local dataset		•	•	•
CVR				•
Publish to TruView Cloud	•	•	•	•
Publish to JetStream Enterprise		•	•	•
Batch export LGS via command line interface		•	•	
Batch export RAF archive file via command line interface		•	•	
Publish to Cyclone ENTERPRISE		+	•	•
Decimate point clouds upon publish		+	•	•
Save screen image as image file		•	•	•
Auto-blur faces and licence plates ⁺		+	•	
IFC	•			
DXF	•			

OTHER GENERAL CYCLONE FEATURES
Metric units of measure
Imperial units of measure
64-bit large number support
64-bit graphics support
Continuous auto-save
Multi-threading to take advantage of multiple processors
Hierarchical project layout
Project Explorer (Cyclone REGISTER 360 PLUS)
Online help
Adjust Capture Settings of BLK360
Scan Density (High, Medium, Low)
Image Quality (HDR or LDR)
Image Exposure (EV-5 to +5)
Adjust Capture Settings of P-Series scanners
Scan Density (12.5mm, 10.0mm, 8.0mm, 6.25mm, 4.0mm, 3.125mm@10m)
Range filter
Delete scans from BLK360
Check Battery level of BLK360
Check internal storage availability of BLK360
Check Serial Number of BLK360
Check Firmware Version of BLK360
Set time on BLK360 internal clock
In-app notifications of licences nearing expiration

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	*	Enabled if licenced copy of CloudWorx is installed on the same machine
	٨	Finished registrations are imported as a unified point cloud, unfinished registrations are imported as separate scan worlds into an unfinished registration
	+	Requires Cyclone WORKFLOW licence

Minimum specification (Desktop Modules):

Processor	Dual core processor running at 2.5GHz
RAM	Minimum 8 GB or more for 64-bit OS
Operating System	Windows® 10 (64 bit), excluding Bootcamp for MacOS
Graphics	Support for OpenGL 3.3 or higher with 1GB video memory
Hard Disk	At least 1GB of free disk space required for install

Note: This spec is recommended only for viewing and\or working on smaller projects.

Recommended Specification for Workstation (Desktop Modules)

Processor	Latest i9 quad core 10th generation at 3.5GHz or higher
RAM	64 GB
Operating System	Windows® 10 (64 bit), excluding Bootcamp for MacOS
Graphics	Nividia Quadro, Nvidia GeForce or AMD Radeon. 8 GB dedicated video memory
Hard Disk	Internal SSD drives. One for writing and one for reading.

Note: To ensure the best performance, it is recommended that you install the latest graphics card drivers from the manufacturer's website.

Note: This spec is recommended when working with Cyclone MODEL and Cyclone REGISTER 360 PLUS.

Recommended Specification for Workstation (Classification)

RAM	4GB Video RAM or better
Graphics Card	Ampere NVIDIA, Volta or Turing, Any RTX, GeForce GTX 1650 or better
GPU	7.0 or better

Recommended Specification for Workstation (Tablet Modules)

Processor	Intel Core i5 2.4 GHz or higher
RAM	16 GB or higher
Operating System	Windows® 10 (64 bit), excluding Bootcamp for MacOS
Graphics	Intel HD graphics 520 or higher
Hard Disk	Internal SSD drive
Port	Ethernet port or Ethernet adapter

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