

According to market demand, FOIF is pleased to announce the launch of new total Station RTS 630H series with alphanumeric keyboard. Meanwhile, it can upload and download data easily with PC or data collectors, and the expanding internal memory can record 8000 points. With these excellent features, RTS 630H series total station are easy to use and reliable enough to be widely used for building setting out, road layout, topography survey or control survey etc.



Features

◆ Easy-to-use keyboard

With alphanumeric and function key, it is easy and convenient to input character or number. Otherwise, it has special keys for cursor, power, escape, illumination. And the [ALL] key is used for measurement and record together. The [EDM] key is for all EDM parameter settings.



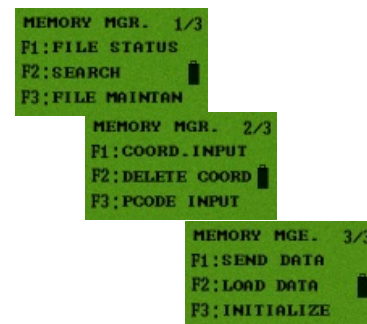
◆ Data download and upload

With RS-232C and open protocol, connect the instrument and computer or Data Collectors for easy data download and storage, moreover, with software FOIFCOM you can upload directly to internal memory of RTS 630H series for convenient setting out in the field.



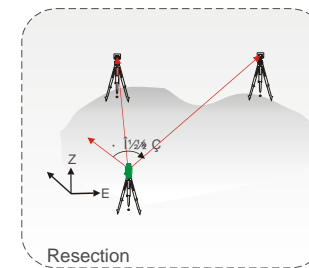
◆ Large internal memory and convenient file management

RTS630H series has a large internal memory, it can record 8000 coordinate data points or 4000 raw data points, and it is possible to record 8 files at the same time, so it is unnecessary to worry memory space for users. With memory management system, users can edit, delete, review and record data or file conveniently.



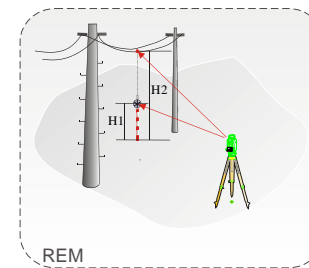
Integrated programs

RTS 630H series offer many professional programs, and it has the function of memory management system, you can edit, delete, review and record data or file easily, so the model of total station can adapt different survey projects.



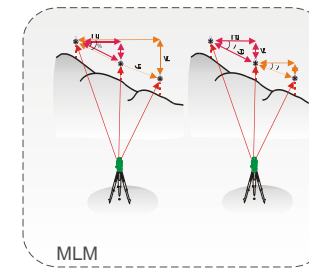
Resection

By setting up the instrument at an unknown point and measuring to at least two (max five) known points, the coordinates of the instrument can be computed, the results is very reliable.



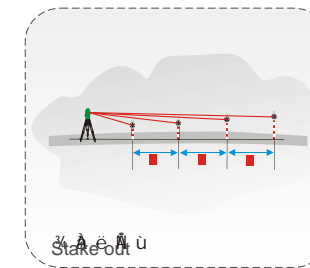
REM

Two mode of with prism and without prism can be selected to measure the height of any point where a prism cannot be placed.



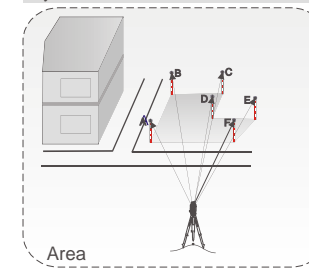
MLM

The horizontal distance, slope distance and height distance of reference point to any point or two adjacent points can be easily measured.



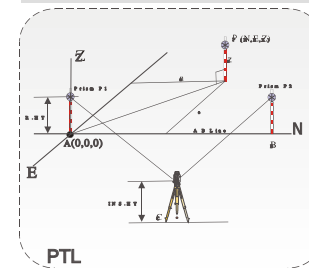
Stakeout

In road measurement, it used for offset of stake out. It also can be used to layout of polar coordinate when the angle and distance are known.



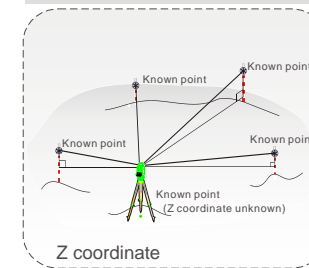
Area

The object surface area is calculated and displayed as each target point is measured.



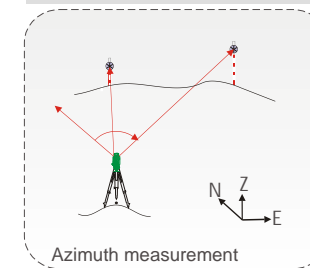
PTL

The Point to Line mode (PTL) is a method of interpretation of the point coordinates, the coordinates are define from two known points, the line that through these points is set as one axis and its perpendicular as another.



Z coordinate

Measuring several known points (X, Y, N) to calculate and reset Z coordinate of occupied point

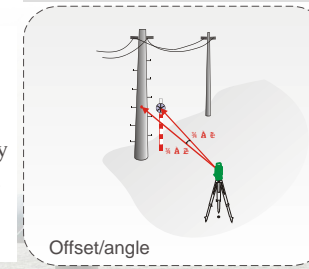


Azimuth measurement

The azimuth angle from occupied point to unknown point can be measured conveniently.

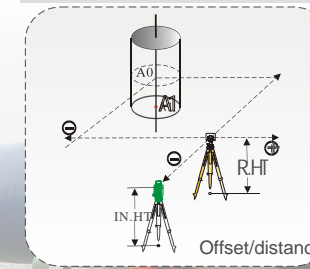
◆ Laser plummet (Factory optional)

The RTS 630H series can offer optical plummet or laser plummet (factory optional accessory). For the optical plummet, 3X magnification is available; For the laser plummet, laser intensity and focus can be adjusted. It is easy to center, and the laser spot is clear enough to be seen under the sunlight. And the laser power can be turned on separately from system power.



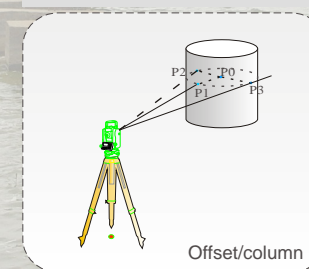
Offset/angle

Any point which is difficult to set up the prism can be measured with this program, for example, center of tree, or a corner.



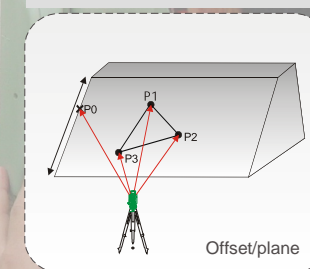
Offset/distance

The measurement of a place apart from a prism is possible by inputting offset horizontal distance of front and back/right and left.



Offset/column

Measure circumscription point (P1) of column directly, the distance to the center of the column (P0), coordinate and direction angle can be calculated by measured circumscription points (P2) and (P3).



Offset/plane

Three points (P1, P2, P3) on a plane will be measured at first to determine a plane. Collimate the measuring point (P0) then instrument calculates and displays coordinates and distance value of cross point between collimation axis and of the plane.

RTS630H series Specifications












RTS 630H series Total Station

RTS630H 08.07

	RTS632H(L)*1	RTS635H(L)	RTS632H(L)	RTS635H(L)
Telescope		Optical plummet		
Length	156mm		Accuracy	±0.8mm/1.5m
Image	Erect		Image	Erect
Objective aperture	φ40mm		Magnification	3 ×
Magnification	30×		Field of view	4°
Field of view	1° 20'		Focus range	0.5 to ∞
Shortest focus distance	1.8m		Laser plummet(Factory optional)	
Distance measurement		Accuracy ±0.8mm/1.5m		
Measurement range (Good condition *2)		Laser class Class 2/IEC60825-1		
Single prism	1 to 2000m		Laser spot size/intensity	Adjustable
Three prisms	1 to 2500m		Laser wave length	635nm
Accuracy	(3mm+2ppm)		Focus range	0.5 to ∞
Measuring time		Display		
Fine mode	1.7s(Initial 3s)		Display unit	LCD 4lines×16characters
Tracking mode	0.7s(Initial 3s)		Power	
Minimum reading		Battery Ni-MH Rechargeable battery		
Fine mode	1mm		Output voltage	7.2V DC
Tracking mode	10mm		Continuous operation time	4hours,continuous distance/angle measurement 12hour, angle measurement only
Temperature input range	-30℃ to+60℃ (1℃ steps)		Chargers FDJ3 (110V to 220V accepted)	
Pressure input range	510hPa to 1066hPa(1hPa steps)		Charging time Approx 3.5hours	
Prism constant correction	-99.9mm to +99.9mm		Integrated programs	
Angle measurement		Setting out/Data collection/Resection/REM/MLM/Stake out AREA/Point to line/Z coordinate/Azimuth/OFFset		
Reading system	Photoelectric incremental encoder		Others	
Angle unit	360° /400gon/mil, selectable		Internal memory	8000points
Minimum reading			Keyboard	23 keys on each face
DEG unit	1" /5" /10"		Weight(include batteries)	4.5kg
GON unit	0.2mgon/1mgon/2mgon		Dimensions	(WxDxH)160x155x360mm
Accuracy *3	2"	2"	5"	5"
Automatic vertical compensator		Operating temperature -20℃ to+50℃		
Range	±3'		Storage temperature -40℃ to +70℃	
Level vial sensitivity		Serial Interface RS-232C		
Plate level vial	30" /2mm		Data output Special software for upload and download: FOIFcom	
Circular level vial	8' /2mm		Water proof IP×4 (IEC529)	

*1 "L" means laser plummet, without "L" means optical plummet *2 Good condition: no haze, visibility about 30km *3 standard deviation based on DIN18723

Standard Components	Optional Accessories
 FDJ3 Charger (1 each)  Communication cable (1 each)  D4-500 (2 each) rechargeable battery pack  Disc with program: FOIFcom (1 each)	 YGFDQ2A Single prism system  YGFDQ3 Triple prism system  FJ19 Diagonal eyepiece  YGM170 Tripod  D2-2 Bipods  D3 Prism pole



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