

## The first 500m reflectorless total station in China

FOIF announces the China's leading in a series of new reflectorless total stations from this year. It express on performance, speed, accuracy.

Absolute isolation of the transmitting light path and receiving the optical path will reduce the light interference and improve the accuracy of instrument.

The laser beam with wide-angle in prism mode, the instrument could obtain higher measurement accuracy without fully aiming the target or affected by the strong air turbulence.

The long measurement distance and high precision is obtained by dynamic lock-in phase EDM technology.

### Technical data of EDM

#### Laser class

Reflectorless	Class 3R (IEC 60825-1)
Reflective sheet	Class 3R (IEC 60825-1)
Prism	Class 1(IEC 60825-1)

#### Measurement range (good condition)

##### Reflectorless (Details see attached table)

R500	1 to 500m
Single prism	1 to 3000m
Reflective sheet/RP60	1 to 800m

#### Accuracy

Prism mode	1.5mm+2ppm/1mm+1ppm(optional)
Reflectorless mode	
R500	3mm+2ppm(1-200m)/5mm+2ppm( $\geq$ 200m)
Reflective sheet	3mm+2ppm

#### Measurement time(Initial:2.5s)

Prism	typical 1.0-1.5s,
Reflective sheet(RP60)	typical 1.5s
Reflectorless	typical 1.5-5s, max. 20s