



# YSF Corporation Ltd.

5A, Blk1 Kin Ho Ind. Bldg., 20-24 Au Pui Wan St., Fo Tan, Shatin, N.T., HK.  
Tel: (852) 8109 8368 Fax: (852) 3007 4857 E-mail: sales@ysftool.com  
www.sokkia.com.hk www.ysf.com.hk  
Supply, Repair, Rental, Scanning and Calibration Service of Surveying Instruments and Accessories



## CERTIFICATE OF CALIBRATION

Certificate No.	: CS-CC-220110	Customer	: Paul Y-CIMC-JEC Joint Venture
Manufacturer	: Leica	Address	: 11/F., Paul Y. Centre,
Equipment	: Total Station		51 Hung To Road, Kwun Tong,
Model	: TCRA1202		Kowloon, Hong Kong
Serial No.	: 261812	Calibration Interval	: 12 months
Calibration Date	: 26th January, 2022	Reference Document	: CS/ME.2(HKST)
Expire Date	: 25th January, 2023	Report No.	: CS-CR-220110

The instrument has been checked and calibrated according to document procedures and using standards and instruments which are traceable to international accepted standards. The standards and instruments used in the calibration are calibrated on a schedule which is adjusted to maintain traceability at the required accuracy level, or have been derived from the ratio type of self-calibration techniques. This is established by our Quality Management System, audited to ISO9001 :2015 by an independent national accredited body.

The specified calibration interval is a recommendation. Depending on the type of use ambient conditions or accuracy requirements, other calibration intervals may be applicable. The user shall be responsible that calibration is carried out at adequate intervals.

YSF Corporation Ltd. hereby certifies this instrument meets or exceeds all published specifications of the manufacturer at present inforce. This calibration certificate may only be distributed in a complete and unchanged form. Unsigned calibration certificates are invalid.

Calibrated by

Wayne

Wayne Ng, Service Engineer  
26th January, 2022

CKL/CSL/220110

Checked by



Wallace Yu, Service Manager  
26th January, 2022



# YSF Corporation Ltd.

## Calibration Report

Certificate No. : CS-CC-220110 Certificate Report No. : CS-CR-220110

Client : Paul Y-CIMC-JEC Joint Venture

Address : 11/F., Paul Y. Centre, 51 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Item Calibrated : **Name/Description:** Total Station

**Manufacturer:** Leica

**Model:** TCRA1202 **Serial No:** 261812

Reference Standard : 142343  
Calibration check according to customer's requirement.

Calibration Method : Procedure CS02

### Calibration Conditions

Temperature : (  $21 \pm 3^{\circ}\text{C}$  )

Relative Humidity : 76% RH

Date of Test : 26th January, 2022

Test Results : **PASS** (All calibration points were within the tolerances as shown in the attached calibration results.)

Calibrated by : Wayne  
Wayne Ng, Service Engineer  
Date: 26th January, 2022

HKCS Approved Signatory: Wallace Yu  
Wallace Yu, Service Manager  
Date: 26th January, 2022

- Notes:
- 1, The test equipment used for calibration are traceable to national standards/international system of units(SI)
  - 2, The values given in this calibration certificate only to the values measured at the time of test & any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. YSF Corporation Ltd. shall not be liable for any loss/damage resulting from the use of the equipment.
  - 3, The test results apply to the above Unit-Under-Test only.
  - 4, This certificate shall not be reproduced, except on full, without approval of YSF Corporation Ltd.



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## Calibration Report

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Address : 11/F., Paul Y. Centre, 51 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Item Calibrated : **Name/Description:** Total Station

**Manufacturer:** Leica

**Model:** TCRA1202

**Serial No:** 261812

INSPECTION ITEM	INSPECTION RESULT
Perpendicularity of the leveling base assembly with the vertical angle.	Pass
Perpendicularity of the circular level assembly with the vertical angle.	Pass
Inclination in the vertical crosshair of the focusing telescope reticule (scale inclination).	Pass
Perpendicularity of the vertical axis with the horizontal axis. (Plumb line)	Pass
Perpendicularity of the horizontal axis with the line of sight. (Double centering)	Pass
Coincidence of the line of sight of the optical plummet telescope with the vertical axis.	Pass
Coincidence of the line of sight of the sighting collimator.	Pass
Eccentricity of the horizontal scale.	Pass
Eccentricity of the vertical scale.	Pass

Under the above condition, we have got the following data with our standard prism and standard measured distance.

Standard distance	Mean Result	Difference (mm)
7.6750	7.6750	0
10.3120	10.3120	0
46.6860	46.6880	2
87.2740	87.2750	1
125.7720	125.7730	1

**Overall Inspection Result : PASS**

Served by :

Wayne  
Wayne Ng, Service Engineer

Date: 26th January, 2022

We hereby confirm the inspection has been completed and complied with the specifications required.

**YSF Corporation Ltd.**

Wallace Yu  
Wallace Yu, Service Manager

Date: 26th January, 2022