

# SOUTH PRECISION INSTRUMENT PVT.LTD. NEWS PAPER

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## 3D LASER PRODUCTS IN MUMBAI

On October 12th, South Precision Instrument Pvt. Ltd. held 3D laser products conference in Mumbai, the coastal city of western India and the capital of Maharashtra. About 200 representatives of surveying and mapping units, surveying and mapping institutions and government agencies from Mumbai and some other cities attended this conference. As one of the world-class surveying equipment manufacturers, South has demonstrated a new mapping solution for the participants.

Jackie Cheung, Deputy General Manager of International Business Department of SOUTH, has shared 3D laser hardware and software equipment, as well as the classic project case with participants. He



pointed out the focus problem that users usually pay attention to, and proposed a targeted solution based on the various pain spot of traditional measurement operations.



(Mr. Jackie Cheung)



(Mr. Amit Borde)



(Mr. Ram Mehar)

At noon, a 3D laser field operation demonstration was carried out near the Jewel of Navi Mumbai Park, including UAV-based and mobile-based. The data processing was quickly done at the site once finished demonstration. During the presentation session in the afternoon, the high-precision point cloud results are compared with dozens of RTK measured values, and the elevation standard deviations are all within 3cm. After the meeting, several users also actively discussed the technical implementation methods of relevant cases with South Team. Compared with the previous simple ground measurement, there are more choices on the market today.





## VADODARA CONFERENCE HELD ON 8TH JUNE 2019 IN HOTEL SAYAJI, GUJARAT



**Annual** User Conference for South products was successfully held in Hotel Sayaji Vadodara, Gujarat on 8th June 2019. SOUTH representatives presented this event together with more than 80 end-users and representative from government department from different parts of Gujarat. During the conference, Mr. Ram (DGM) fully introduced about company introduction and new technology in surveying field e.g. UAV & LiDAR.

including RTK receiver e.g. G1Plus, G6, RTX function and showed the highlights of the newly released android software SurvX4.0.

The first of its kind in the world "ANDROID TOTAL STATION A1" unveiled by Mr. Simon (Technical & Marketing Manager). Technical detail shared by Mr. Ashwani and demonstration has given to customers. Customers were very curious about it and shown interest in machine.

This time, a session of lucky draw was

organized. First prize is a 40-inch SMART TV, and second prize is 2 newest smart Mobile Phones and third prize is 5 Free Calibration Certificates for total station, 8 lucky customers won the above prizes.



At last, during the demonstration session, professional technical engineers demonstrated the use of the newest RTK and total station, and demonstrated the excellent performance of SOUTH instrument. Customers of different segments like surveyors, construction companies, engineering institutions and government sectors say they like SOUTH new products and technologies very much.



## ANNUAL MEETING HELD ON 27TH APRIL 2019 IN HOTEL CROWN PLAZA, DELHI

**Annual** Meeting was held at "CROWN PLAZA" Rohini, New Delhi on 27th April 2019. The meeting was headed by Mr. Wei, Country Manager and Mr Ram Mehar (DGM).

Meeting is attended by all Branch Managers and Staff of the company.





# A NEW GUINNESS WORLD RECORD? COULD BE!

On 1st July, A Product Training Camp with thousands of users involved was held in Jakarta. 1 banquet hall. 4 days. 102 trainers. 1662 users. 3324 RTK receivers. And that's the amazing story in short! From award of bidding to cargo arrival, less than 2 months. Now the community is having a spectacular carnival at the destination, Jakarta. Volume production,

Volume production, repeated testing, and on-time delivery were supposed to be a seemingly-impossible mission. Such 3324 RTK receivers would be promptly running into the national land title survey program in Indonesia. 3324 makes a name, and GNSS RTK Galaxy G1 makes a story. And this story is to be CONTINUED...



## SKYCRUISER MF2500 NOW FLYING IN CAMBODIA FOR NATIONAL LAND TITLE SURVEY



**DO MORE WITH LESS** by SkySolutions  
SkyCruiser MF2500 now flying in Cambodia for national land title survey!  
VTOL fits all terrain operation, 42MP full framer brings ultrahigh resolution, and 2.5-hour endurance delivers amazing aerial efficiency!



## 2019 SOUTH GNSS USER CONFERENCE IN CZECH REPUBLIC

**Annual** User Conference for South GNSS products was successfully held in Czech Republic dated on 16th and 17th Jan 2019. SOUTH representatives Charlie presented this event together with more than 80 end-users from different cities.  
During the conference, Charlie fully introduced the updated South GNSS hardware, including RTK receiver and Hand-held GIS products, and showed the highlights of the newly released android software SurvX4.0. He also shared the promotion concepts for GNSS hardware sales. Meanwhile, Charlie provided a service training of GNSS products. All the participants are spirited with this kind of activity in the early of 2019.



## THE VERY FIRST MAPPING DRONE NOW FLYING IN ETHIOPIA

**Several** days ago, two delegates from the International Business Department were sent to Addis Ababa for a drone tender delivery and training package. And it was the very first mapping drone that has been utilized in the survey industry inside this country ever.



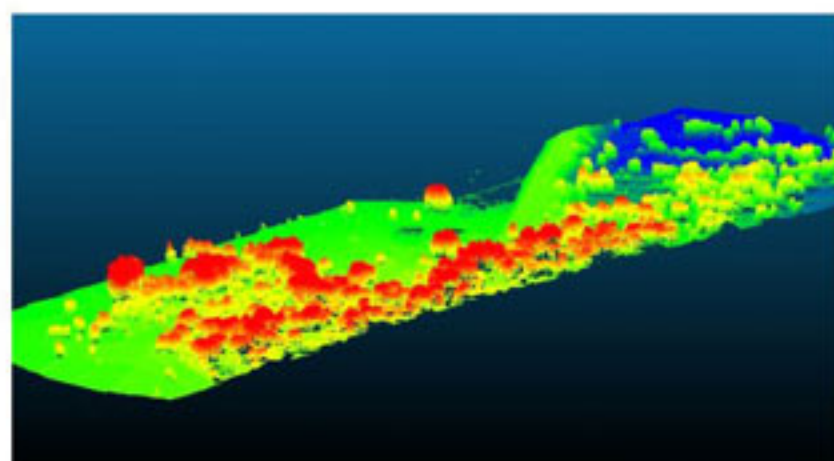
The 8-day training program was made for fresh beginners, which included aerial photogrammetry fundamentals, UAV market knowledge, drone operation fieldwork and data post processing, and hardware maintenance routines. The trainees, consisted of the staff from several government sectors, showed big interest in this new mapping tool and they were supposed to have learnt a lot through such an intensive training. Shortly after the training courses, the SkyCruiser FLYme would be put in use for their aerial survey projects.



## Z-Lab LiDAR Accelerates Dam Survey in India



**Dams** are one example of the increasing pressure on river services. Mostly, dams are built to gain hydropower, but they support also the creation of fishponds or, in dryer areas, irrigation of agricultural land. In many regions of India, dams and reservoirs are used to secure irrigation of agricultural land. Therefore, regular survey or even monitoring of the dam areas is of high significance to the local authorities. This time, the people in the story were using UAV-based LiDAR, Z-Lab SZT-V100, to conduct the survey work, as they wished to have the topographic mapping rapidly done in their project. Mr. Simon Xu accompanied the team and assisted them in the site with more sharing, which was highly appreciated by the buyer.



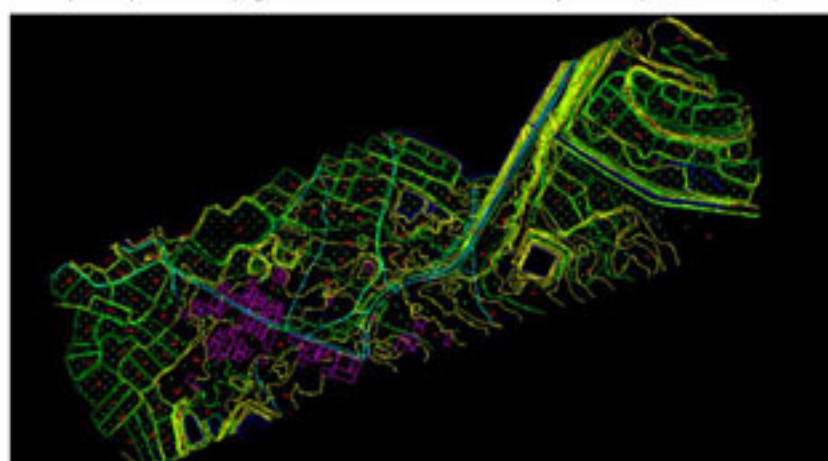
(geo-referenced point cloud generated in software Z-Lab Pt-process)



(orthophoto map generated from software SkyPhoto-professional)



(colorized point cloud generated from software Z-Lab Pt-process)



(vector map and contour lines generated from software Z-Lab Mapper)

It was the very first job for the users to utilize this new technology, other than their conventional ground measurements with total station and GNSS RTK. Actually, the new devices were delivered to them a couple of weeks ago and they had an intensive training from field to office in October, 2019. After the training, the users were eager to try it in the field and see how much it could improve their work efficiency. 5 flights (from different take-off spots) for data capture in 2 days and almost another 2 days for data processing are what they achieved to complete a 100-hectare polygon in terms of geo-referenced point cloud, orthophoto image, digital elevation model, contour lines and vector line map. The outputs are supposed to provide reference to control the water level and the environmental improvement of the reservoir area for the water conservancy department.



The team are assumed to continue this way and map all those dam areas nearby with their new survey methodology, aerial laser scanning and lasergrammetric data productions. Being the first time to deal with LiDAR, they enjoyed a very steep learning curve and managed to acquire as much knowledge as possible from the manufacturer during the 9-day training camp held in Kolkata, West Bengal. The productive delivery has well prepared them for the future work. Intensive course training plus in-job guidance would definitely help such LiDAR beginners with quick learnings and practical experience, which is what South is dedicated to.

**1500M**

U : 90° 47' 52"  
HR : 107° 06' 05"  
SD : 1456.511m  
HD : 1456.439m  
UD : -10.496m  
ALL MEAS MODE P1

**SOUTH**  
Target your success

**N6 Series**  
- WORLD'S FIRST Dual Laser EDM !

**New Generation EDM  
up to 1500m Non-prism**

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