SPECIFICATIONS

Performance			
Angle Measurement	Accuracy		1"
	Measure Method(HZ/V)		Absolute, continuous, 4 path detective
	Diameter of Encoder Disk		79mm
	Minimum Reading		1"/0.1"
	Compensator Type		Dual axis, liquid photoelectric
	Compensator Accuracy		1"
	Compensator Range		±6'
Distance Measurement	Laser Output*1		Class 3R
	Measuring Range	Prism*2	3500m
		Reflectorless*3	1000m
	Accuracy	Prism	±(1mm+1xppm•D)
		Reflectorless	D<500m: ±(2mm+2xppm•D)
			D>500m: ±(5mm+2xppm•D)
	Measuring Time	Prism	Fine: 0.3S, Tracking 0.1S
		Reflectorless	0.3-3S
	Minimum Reading		1mm/0.1mm

Robotic Specification			
Motorization	Motor Type		DC Servo Motor
	Rotate speed		60º/s
	Rotation Time F1/F2		2.9s
Prism Search	Range		3-300m
	Scope*4		Horizontal: 360º; Vertical: ±18º
	Search Time		Typically 3.5s per 90º
Auto Prism Recognition	Range*5		3-1200m
	Time		3-5s
	Search Window		Customized

General Specification			
Telescope	Image		Erect
	Tube Length		154mm
	Effective Aperture		45mm (EDM: 50mm)
	Magnification		30x
	Resolving Power		3"
	Field of View		1º30'
	Minimum Focus		1.2m
	Reticle Illumination		5 brightness levels
OS, Interface and Data	Operation System		Android 11
	Display		5inch, TFT color LCD with LED backlight, touch screen, dual face
	Keyboard		13 keys with backlight, 4 keys for function
	Processor		MT6833, 8 Core, 2.2GHz
	Data Storage	Internal Memory	4GB RAM, 64GM ROM
		Plug-in Memory Device	Type-C for USB OTG, TF card
Communication	Interface		RS-232, Bluetooth 5.1
	WLAN		2.4G/5G/WIFI
	SIM Slot		Micro Sim, 5G
	Long-range Remote Control		Powered by Zigbee, 450m
Levels	Plate Level		30"/2mm
	Circular Level		8'
Laser Plummet	Type		Red laser dot, 635nm
	Accuracy		±1.5mm at 1.5m
Power Supply	Operating Time (20°C)		4 hours
	Battery		Li-ion rechargeable battery, 5400mAh
Working Environment	Working Temperature		-20ºC to +50ºC
	Storage Temperature		-40ºC to +70ºC
	Protection /Humidity		IP54 / 95% non-condensing
Dimension	Size		217mm*198mm*378mm (without antenna)
	Weight		7kg (with battery)

*1: A built-in rangefinder product equipped with a Class 3R laser has a harmful distance of 1000m (3300ft). Beyond this distance, the laser intensity will be reduced to Class 1.
*2:Standard clear, no haze, overcast situations. Range and accuracy are dependant on atmospheric conditions.
*3: With Kodak Gray Card White Side (90% reflective)
*4/5: For 64mm round prism.

NS30
Robotic Total Station

- High accuracy - 1" for angle, 1+1ppm for distance
- Long range prism (3500m) and reflectorless (1000m) measurements
- Reliable prism search to 300m
- Auto prism recognition to 1200m
- LocknTrack function
- Hyper Drive, direct motor powered by worm and gear
- Flexible data transfer by USB OTG, TF card and Bluetooth
- Fully robotic control with H6 Plus Controller, up to 450m
- Practical Survey Star onboard

Version: NS30 1.0

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%HQHILW IURP =LJHHH WHFKQRORJ\ 16 FDQ
ZLWK \RXU + 3OXV &RQWUROOHU LQ PD[LPXP
/RQJ UDQJH GDWD OLQN RIIHUV D IOH[LEOH DQ
IRU RQH PDQ VXUYH\ V\VWHP

HyperDrive
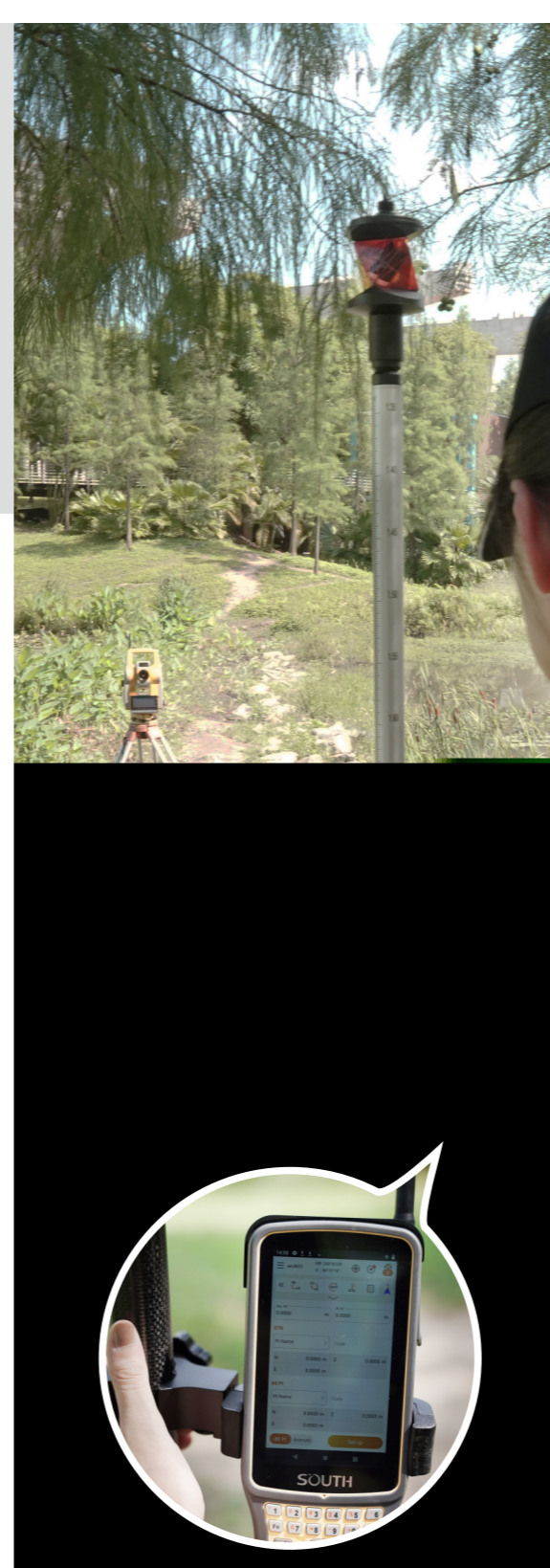
'LUHFW 0RWRU E\ :RUP *HDU
6WDEOH DQG UHOLDEOH IRU PRWRUL]DWLRQ
3RVLWLRQLQJ DFFXUDF\ µ

:KHQ 3ULVP 6HDUFK LV DFWLYDWHG
16 HQDEOHV \RX WR VHDUFK
UHFRJQL]H DQG DLP D SULVP LQ P
ZLWK ERWK YHUVDWLOLW\ DQG DJLOLW\

Auto Prism Recognition

16 IHDWXULQJ D SRZHUIXO DOJRULWKP
WKDW DXWRPDWLFDOO\ DLP DQG UHFRJQL]H
WKH SULVP ZLWKLQ WKH VLJKW RI YLHZ IRU
P ,W FDQ KDQGOH HYHU\ WDVN ZLWK
HDVH

LocknTRack

:LWK /RFNQ7UDFN WHFKQRORJ\ WR ORFN
RQWR WKH SULVP DQG IROORZ LWV
PRYHPHQWV FRQVWDQWO\ ZKLFK LV DEOH
WR HOLPLQDWH WKH QHHG IRU VWDII DW WKH
DURXQG DQG ZDLWLQJ ZKHQ FROOHF WLQJ
GDWD RU VWDNLQJ RXW

3UDFWLFDO 2QERDUG 6RIWZDUH 6XUY
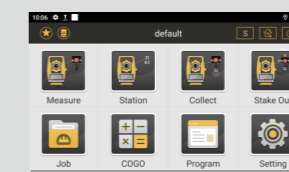
6XUYH\ 6WDU DOOV \RX FROOHFW
GDWD DQG VWDNH RXW HIILFL
JUDSKLFDO DQG LFRQLF JXLG

0DS 'ULYHQ :RUNIORZ

,W LV DQ LQWHUDFWLYH IXQF
HPEHGGHG LQ 6XUYH\ 6WDU Z
YLVLEOH IHDWXUHV

1RW QHFHVVDU\ WR H[WUDFW
FRRUGLQDWH IURP &$' ILOHV
PRUH 7KH RQO\ WKLQJ \RX Q
GR LV LPSRUW WKH &$' ILOHV
WR VWDNH RXW WKH SROQWV

)OH[LEOH &ROOHFWRU 6RIWZDUH 6XU

6XUYH\ 6WDU 3ORW LV D SRZ
DQG SUDFWLFDO ILHOG VRIWZ
IRU 16 LW HQDEOHV \RX WR
FKDQJH WKH VHWWLQJV FROO
DQG VWDNH RXW SRLQWV HDV
\RXU FRQWUROOHU

=LJHHH DQWHQQD IRU P IXOO\ URERWLF UHPRWH FRQWURO
6HDPOHVV GDWD WUDQVIHU ZLWK %OXHWRRWK
(DV\ DFFHVV WR QHWZRUN GXDO QDQR VLP FDUG DQG :/$
LQFKHV FDSDFLWLYH WRXFK VFUHHQ
$QGURLG RSHUDWLQJ V\VWHP *% 520
)XOO\ NH\SDG IRU TXLFNHU HQWU\
:DWHUSURRI DQG GXVWSURRI ,3 GHVLJQ
0DUNHW OHDGLQJ KRXUV EDWWHU\ ZRUNLQJ OLIH DQG

8OWUD)OH[LEOH
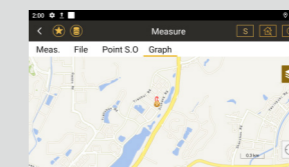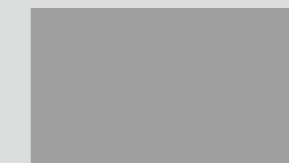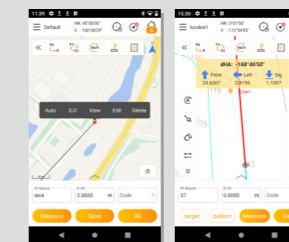
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&RPELQHG ZLWK 6XUYH\ 6WDU 3ORW<RX6MXVW QHHG WR FDUU\ D SULVP S
RIIHUV D IOH[LEOH ZRUNIORZ $OVR LW SXW RQ FROOHU WKHQ \RX FDQ Y
WKH VRIWZDUH VXLWH ZKLFK FDQ EHRQO\ RQH SHUVRQ 1RW G
E\ \RXU RZQ UHTXHVWV)DVWHU DQGFRPPXQLFDWH ZLWK RSHUDWRU DW W
ORFDWHV SRLQWV WR ILHOG WUPPLQJMXVW IROORZLQJ
16 URERWLF WRWDO VWDWLRQ \RXU FRQWUROOHU

8OWUD)DVW