

# ONSITE 60 QUARRY SPEED DISPLAY

*"KEEPING QUARRIES & MINES SAFE"*



## **HIGHLY VISIBLY SPEED DISPLAY FOR QUARRYING & MINING SITES**

Onsite 60 Quarry is two digit speed display with two 60 cm high digits with optional 15-20 cm high LED texts to identify speed unit e.g. Km/h, KPH, MPH. Display has built in radar and power source. Optionally unit is available with rechargeable batteries or solar panels. Automatic brightness adjustment adjusts LED brightness to fit in all lighting conditions and increases operating time when powered with battery or solar panel system.

Special "Traffic Light" specified LED is used to maximize visibility in all lighting conditions. Display will show speed to approaching target and flashes the speed if pre-set speed limit is exceeded. Speed limit, minimum and maximum speeds can be programmed to display by using control panel and LCD-screen.

## **CONTROL CENTRE INTERFACE ALLOWS AUDIBLE & VISUAL WARNINGS ON COMPUTER**

Display can be also equipped with optional features like Control Centre Interface (CCI) and data collection. CCI function allows speed display to relay speed information either thru wired or wireless connection to computer screen in control centre. In the case of speed violation system will provide visual and audible warning allowing supervisor or safety manager to take immediate actions if necessary.



**OnSite 260 SCM**



**OnSite 360 SCM**

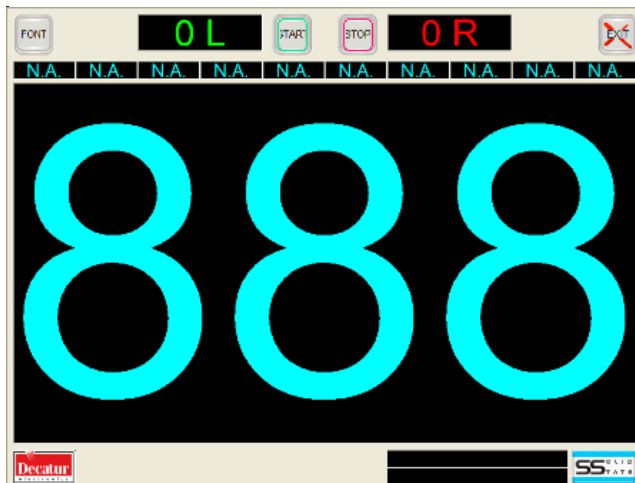


**OnSite 460 SCM**

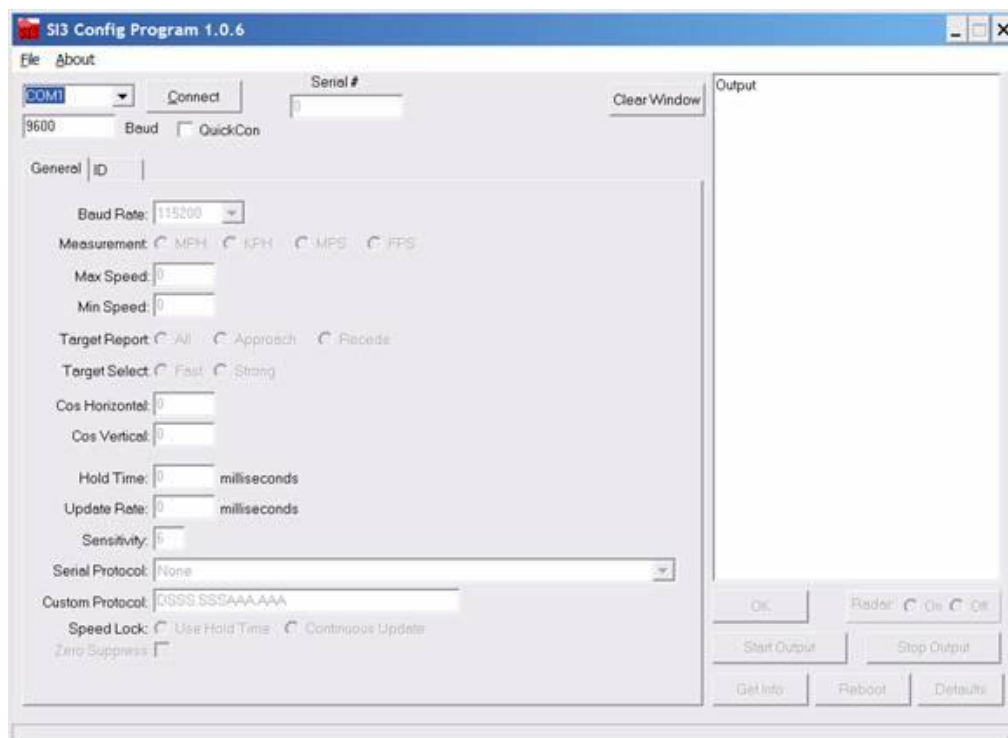
## DATA COLLECTION FOR GATHERING STATISCIAL INFORMATION

Data collection option allows system to gather also speed, date and time information for statistical purposes. System gathers information not only from approaching targets, but resending targets as well. Data collection is valuable tool to find out months, days and times when speed violations are most likely to happen. This enables supervisors and safety managers to allocate resources for more intensive speed & safety control measures at the right time and location.

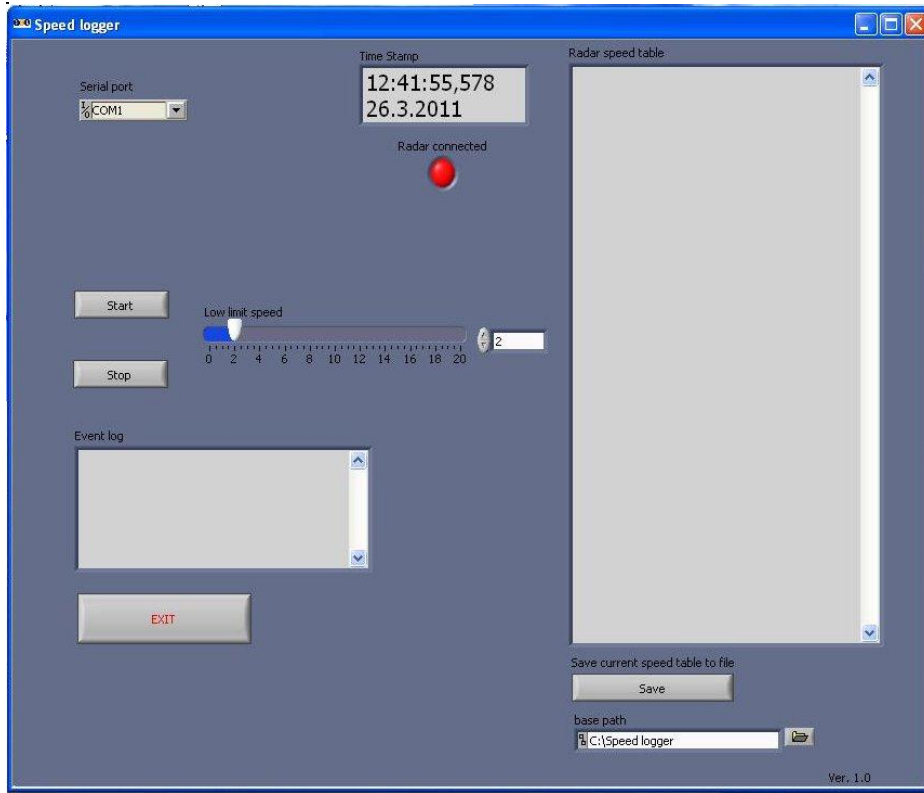
This information can be easily collected internally with SD-card based system. Optional GSM/GPRS –data transfer allows wireless data transfer for gathered speed data. Data collection function is included to Advance Control Centre Interface (ACCI). With ACCI it is also possible to change display & radar settings remotely as well.



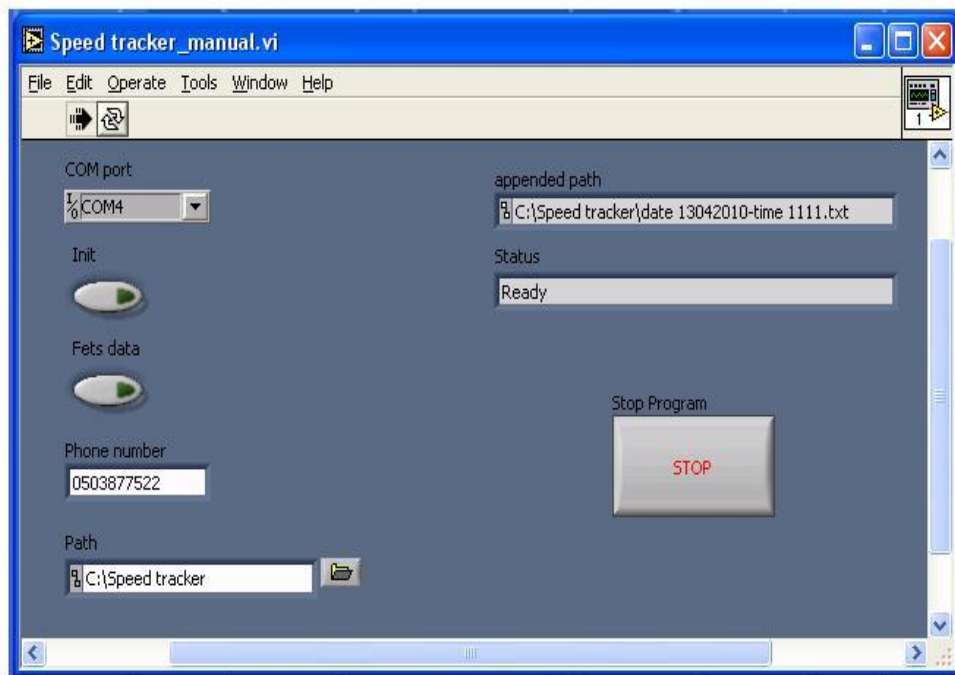
Remote Speed & Alert Display (CCI)



Radar Settings Interface (ACCI)



**Data Collection Interface (ACCI)**



**Control buttons & LCD-display**

## ONSITE 60 QUARRY TECHNICAL SPESIFICATIONS

<b>LED BOARD</b>	
Number of digits	Two (2)
Digit height	60 cm
Type:	7-segment 3 LED rows
LED-quantity:	644 PCS
Angle and brightness:	40° / 8000 mcd with automatic brightness adjustment
Colour:	Amber
Temperature range:	-40°C - +70°C
Housing:	Painted black aluminium (Almg 3)
Size:	H 75 x L 75 x W 20-25 cm
Front class:	5 mm durable Polycarbonate class (PC) with antireflective surface
Options:	LED-texts "KNOTS", "KM/H", "MPH", etc.

<b>RADAR:</b>	
Frequency:	K-band 24.150 GHz +/- 50 MHz
Beam width:	12° +/-1°
Range:	920 m
Speed range:	1 - 240 km/h
Accuracy	±1,25 %
Cosine angle error correction:	Cosine angle correction up to 45 degrees vertical & horizontal
Programmable functions (ACCI)	<ul style="list-style-type: none"> <li>- KPH, MPH or KNOTS</li> <li>- Sensitivity / range</li> <li>- Vertical &amp; horizontal angle</li> <li>- Directionality (approaching, resending or both directions)</li> <li>- Target lock &amp; hold times</li> <li>- Minimum &amp; maximum speeds</li> <li>- Closest or fastest target in range</li> </ul>

<b>DATA COLLECTION &amp; CONTROLL MODULE FOR 2 DIGIT 7-SEGMENT SPEED DISPLAY</b>	
Functions:	Control for two digits
Data collection, internal (Option):	SD-Card up to millions of samples
Data collection, computer (Option):	PC-software (ACCI)
Accuracy:	Speed is stored in full kilometres, miles or knots
Directionality	Both directions, only approaching or targets going away. (System will relay only approaching targets to display digits)
Options:	Automated data transfer over GSM-data connection (option) Automated date and time update over GSM network (option)

<b>POWER</b>	
Nominal power:	220-240V / 12V
Power consumption (minimum)	0,23 A (2,8 W)
Power consumption (maximum):	11,83 A (142 W)

<b>DISPLAY CONTROLL FUNCTIONS</b>	
LCD-display with back light and 5 controls	Possibility to set following functions with menu & control buttons: <ul style="list-style-type: none"> <li>- Speed limit (when exceeded module will flash speed digits)</li> <li>- Maximum speed show by display</li> <li>- Minimum speed show by display</li> <li>- Speed information shown in seconds</li> <li>- Date and time</li> <li>- GSM number for data transfer (GSM/GPRS -data transfer option)</li> <li>- Number of samples collected before initiation of an automatic data transfer (GSM/GPRS -data transfer option)</li> </ul>