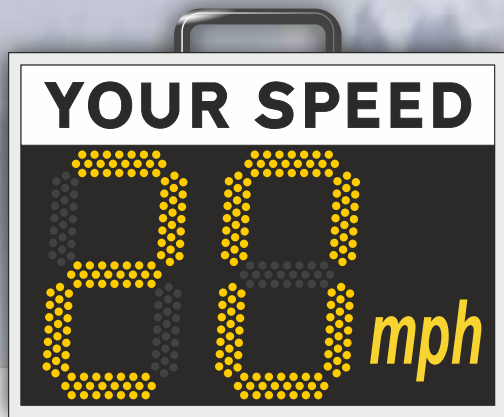# m-SID

Morelock Speed Indicator Device

morelock

Dimensions: 56 x 41 x 19 cm / 22" x 16.1" x 7.5" (W x H x D)

m-SID BASIC

2-digit
LED display

Lightweight
casing

The light aluminum casing and its robust carrying handle makes transportation and installation a breeze.
M-SID BASIC is ideal for mobile use on highways and private sites. No data storage or settings.

Technical specifications:

- Lightweight and compact aluminum casing
- 2-digit high performance LED display with automatic adaption of brightness (digit height 23 cm / 9")
- Specially designed protection mask for excellent visibility even under strong sunlight
-
- Battery level indicator
- Bespoke face plate available

Sample for a M-SID speed display in operation.

YOUR SPEED

30 *mph*

Dimensions: 56 x 41 x 19 cm / 22" x 16.1" x 7.5" (W x H x D)

m-SID BASIC-D

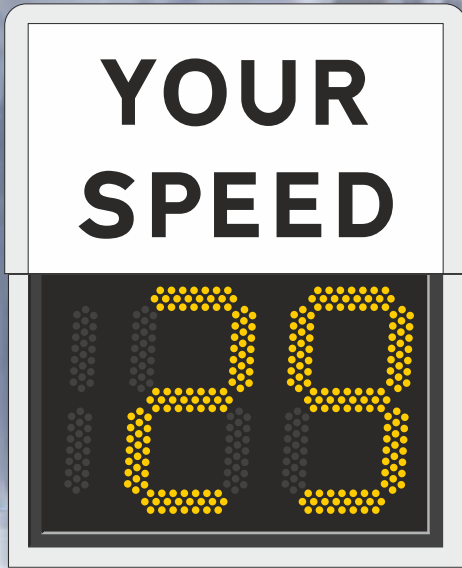2-digit LED display | Lightweight casing | LED colour change | Data storage

The light aluminum casing and its robust carrying handle makes transportation and installation a breeze. M-SID BASIC-D is ideal for a mobile use within city limits. Data storage and colour change (green / red) if the speed limit is exceeded.

Technical specifications:

- Adjustable parameters for min. and max. displayed speed, LED colour change, blinking display
- LED colour change if speed limit is exceeded
- Data storage in a ring buffer (exact to the minute)
- Battery level indicator
- Bluetooth (optional)
-
- Lightweight and compact aluminum casing
- 2-digit high performance LED display with automatic adaption of brightness (digit height 23 cm / 9")
- Specially designed protection mask for excellent visibility even under strong sunlight
- Bespoke face plate available

YOUR SPEED
24 mph

Sample for a M-SID speed display in operation.

YOUR SPEED

29

Dimensions: 63.4 x 78.6 x 18.2 cm / 28" x 30.9" x 7.2" (W x H x D)
with folded front screen: 63.4 x 48.2 x 18.2 cm / 28" x 19" x 7.2"

m-SID MINI

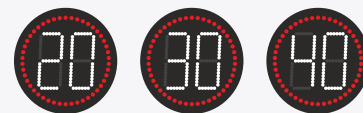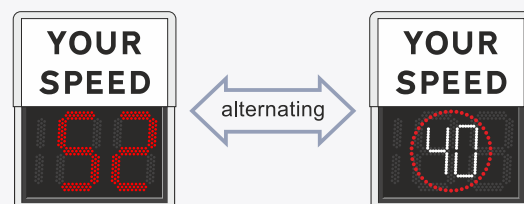| Stealth mode | Smile function | Speed limit function | LED colour change | Data storage |

The new M-SID MINI combines innovative technology with established suitability for everyday use. The fold-away front screen protects the display during transportation and enables a stealth mode speed measurement. Integrated speed limit function gives the opportunity to compare between driven and the legal speed. With data storage, LED colour change and smile function.

Technical specifications:

- Speed limit function if speed limit is exceeded
  - Shows the speed limit sign
  - Alternating between driven speed and speed limit sign
- Smile function
- Adjustable parameters for min. and max. displayed speed, LED colour change, blinking display, speed limit and smile function
- Different parameter settings depending on time and day (5 parameter sets)
- LED colour change if speed limit is exceeded
- Timer and automatic daylight saving time
- Data storage in a ring buffer (exact to the second)
- Bidirectional measurement adjustable
- Battery level indicator
- Bluetooth communication with morelock graph 5 (PC) or App (Android)
- Bespoke face plate available

- Lightweight and compact aluminum casing
- 3 - digit high performance LED display with automatic adaption of brightness (digit height 32.5 cm / 12.8")
- Specially designed protection mask for excellent visibility even under strong sunlight
- Extended speed range 1 - 199 mph and decimal point 1.0 - 19.9 mph

- USB interface for data download, changing parameters or firmware update by USB flash drive (optional)
- Manual parameter setting by rotary switch (optional)
- Automatic data transfer by email + GPS location (optional)

Details:

YOUR SPEED 52 ⟷ alternating ⟷ YOUR SPEED 40

20 30 40

Continuously adjustable speed limit function from 1 to 99 if speed limit is exceeded.

Smile function   Speed ok   Attention

YOUR SPEED 24

Fold-away front screen for easy transportation and Stealth mode

Dimensions: 63.4 x 54.4 x 18.2 cm / 25" x 21.4" x 7.2" (W x H x D)

m-SID COMPACT ³⁰⁰⁰
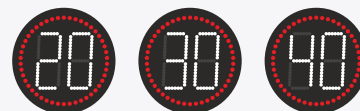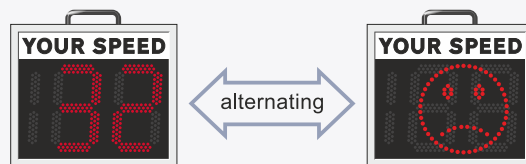
Smile function
Speed limit function
LED colour change
Data storage

The large and robust display is visible at long distance. Integrated speed limit function gives the opportunity to compare between driven and the legal speed. With data storage, LED colour change and smile function.

Technical specifications:

- Speed limit function if speed limit is exceeded
  - Shows the speed limit sign
  - Alternating between driven speed and speed limit sign
- Smile function
- Adjustable parameters for min. and max. displayed speed, LED colour change, blinking display, speed limit and smile function
- Different parameter settings depending on time and day (5 parameter sets)
- LED colour change if speed limit is exceeded
- Timer and automatic daylight saving time
- Data storage in a ring buffer (exact to the second)
- Bidirectional measurement adjustable
- Battery level indicator
- Bluetooth communication with morelock graph 5 (PC) or App (Android)
- Bespoke face plate available

- Lightweight and compact aluminum casing
- 3 - digit high performance LED display with automatic adaption of brightness (digit height 32.5 cm / 12.8")
- Specially designed protection mask for excellent visibility even under strong sunlight
- Extended speed range 1 - 199 mph and decimal point 1.0 - 19.9 mph

- USB interface for data download, changing parameters or firmware update by USB flash drive (optional)
- Manual parameter setting by rotary switch (optional)
- Automatic data transfer by email + GPS location (optional)

Details:

YOUR SPEED — alternating — YOUR SPEED

Continuously adjustable speed limit function from 1 to 99 if speed limit is exceeded.

Smile function   Speed ok   Attention

YOUR SPEED

YOUR SPEED

24

Dimensions: 63.4 x 54.4 x 18.2 cm / 25" x 21.4" x 7.2" (W x H x D)

m-SID VARIO

LED editor

LED colour change

Data storage

The full matrix radar speed display M-SID VARIO can be completely customized to suit your needs. It is able to alert drivers to their current speed and to show pre programmed text messages or graphics. You can use provided templates or easily create your own messages or graphics.

Technical specifications:

- Shows the driven speed, a speed related message/graphic or the driven speed alternating with a message/graphic
- Adjustable parameters for min. and max. displayed speed, LED colour change, blinking display, text messages and graphics
- Different parameter settings depending on time and day (5 parameter sets)
- LED colour change if speed limit is exceeded
- Timer and automatic daylight saving time
- Data storage in a ring buffer (exact to the second)
- Bidirectional measurement adjustable
- Battery level indicator
- Bluetooth communication with morelock graph 5 (PC) or App (Android)
- Bespoke face plate available

- Lightweight and compact aluminum casing
- Full matrix high performance LED display with automatic adaption of brightness (31.5 cm / 12.4")
- Specially designed protection mask for excellent visibility even under strong sunlight
- Extended speed range 1 - 199 mph and decimal point 1.0 - 19.9 mph

- USB interface for data download, changing parameters or firmware update by USB flash drive (optional)
- Manual parameter setting by rotary switch (optional)
- Automatic data transfer by email + GPS location (optional)

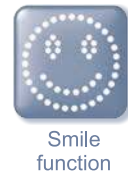## Details:

Sample messages and graphics:

Available LED colour combinations:
amber-red / white-red / green-red.

YOUR SPEED

35
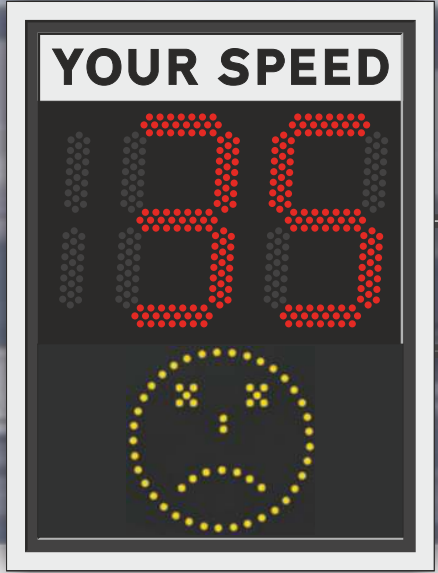
Dimensions: 63.4 x 84.4 x 18.2 cm / 25" x 33.2" x 7.2" (W x H x D)

m-SID PLUS SMILE

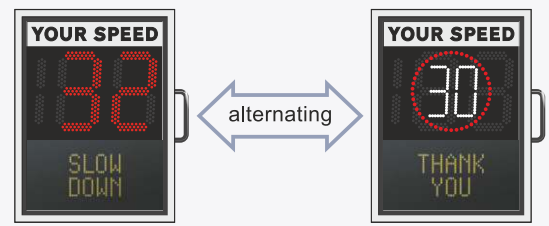Smile function | Speed limit function | LED colour change | Data storage

Secures you with a smile*. The LED graphics ☺/☹ give all traffic an additional feedback on driver behaviour. With speed limit function, data storage and LED colour change.

*If you do not exceed the speed limit

Technical specifications:

- Speed limit function if speed limit is exceeded
  - Shows the speed limit sign
  - Alternating between driven speed and speed limit sign
- Smile function
- Adjustable parameters for min. and max. displayed speed, LED colour change, blinking display, speed limit and smile function
- Different parameter settings depending on time and day (5 parameter sets)
- LED colour change if speed limit is exceeded
- Timer and automatic daylight saving time
- Data storage in a ring buffer (exact to the second)
- Bidirectional measurement adjustable
- Battery level indicator
- Bluetooth communication with morelock graph 5 (PC) or App (Android)
- Bespoke face plate available

- Lightweight and compact aluminum casing
- 3 - digit high performance LED display with automatic adaption of brightness (digit height 32.5 cm / 12.8")
- Specially designed protection mask for excellent visibility even under strong sunlight
- Extended speed range 1 - 199 mph and decimal point 1.0 - 19.9 mph

- USB interface for data download, changing parameters or firmware update by USB flash drive (optional)
- Manual parameter setting by rotary switch (optional)
- Automatic data transfer by email + GPS location (optional)

Details:

YOUR SPEED 32 SLOW DOWN ⟷ alternating ⟷ YOUR SPEED 30 THANK YOU

20 30 40

Continuously adjustable speed limit function from 1 to 99 if speed limit is exceeded.

☺ ☹ ✓ ⚠

Smile function | Speed ok | Attention

THANK YOU | SLOW DOWN

LED graphics underneath the speed display.

☺ ☹

YOUR SPEED

30

CAUTION
CHILDREN

Dimensions: 63.4 x 84.4 x 18.2 cm / 25" x 33.2" x 7.2" (W x H x D)

m-SID PLUS

| LED editor | Smile function | Speed limit function | LED colour change | Data storage |
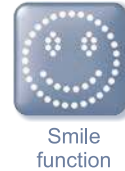
The M-SID PLUS allows you to set up your own LED texts and graphics. Thanks to the provided LED editor easily changeable on site.
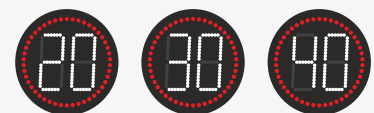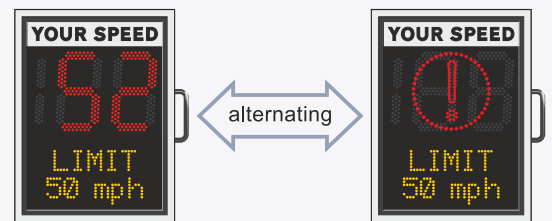
For example:
- up to 15 mph "THANK YOU"
- 15 - 25 mph "CAUTION CHILDREN"
- 25 - 30 mph "SCHOOL ZONE"
- over 30 mph "TOO FAST" (blinking)

With data storage, LED colour change, speed limit and smile function.

Technical specifications:

- Speed limit function if speed limit is exceeded
  - Shows the speed limit sign
  - Alternating between driven speed and speed limit sign
- Smile function
- Adjustable parameters for min. and max. displayed speed, LED colour change, blinking display, speed limit and smile function
- Different parameter settings depending on time and day (5 parameter sets)
- LED colour change if speed limit is exceeded
- Timer and automatic daylight saving time
- Data storage in a ring buffer (exact to the second)
- Bidirectional measurement adjustable
- Battery level indicator
- Bluetooth communication with morelock graph 5 (PC) or App (Android)
- Bespoke face plate available

- Lightweight and compact aluminum casing
- 3 - digit high performance LED display with automatic adaption of brightness (digit height 32.5 cm / 12.8")
- Specially designed protection mask for excellent visibility even under strong sunlight
- Extended speed range 1 - 199 mph and decimal point 1.0 - 19.9 mph

- USB interface for data download, changing parameters or firmware update by USB flash drive (optional)
- Manual parameter setting by rotary switch (optional)
- Automatic data transfer by email + GPS location (optional)

Details:

YOUR SPEED 52 LIMIT 50 mph ⟷ alternating ⟷ YOUR SPEED ! LIMIT 50 mph

20 30 40

Continuously adjustable speed limit function from 1 to 99 if speed limit is exceeded.

Smile function   Speed ok   Attention

| Line 1 | TOO | ☐ Blinking | abc |
| Line 2 | FAST | | ☐ Blinking |

TOO
FAST

Load text   Save text

Create your own LED texts and graphics with the LED editor.

![morelock logo]

m-SID TEXT

Dimensions:
63.4 x 54.4 x 18.2 cm / 25" x 21.4 " x 7.2" (W x H x D)

LED editor | LED colour change | Stealth mode | Data storage

Radar activated LED display with vehicle data storage and interchangeable screens. Create your own LED text with the LED editor and design the screen with individual pictures.

Technical specifications:

- Lightweight and compact aluminum casing
- Specially designed protection mask for excellent visibility even under strong sunlight
- LED colour change green/red (yellow/red)
- Data storage
- 4 adjustable speed related text messages
  - up to 15 mph: **THANK YOU!**
  - 15 - 25 mph: **SCHOOL AHEAD!**
  - 25 - 30 mph: **TOO FAST!**
  - over 30 mph **SLOW DOWN!**
-
- Bespoke face plate available

Details:

Design fold-away screen with individual pictures!

| Line 1 | CAUTION | ☐ Blinking |
| Line 2 | CHILDREN | | ☐ Blinking |

CAUTION CHILDREN

Load text | Save text

Create your own LED texts with the LED editor!

Different pictures and casings available:

Fold-away screen with individual pictures.

CITY OF WOLVERHAMPTON COUNCIL — HAVE A GOOD TRIP

HIGH SCHOOL

DEER CROSSING

Picture on front screen.
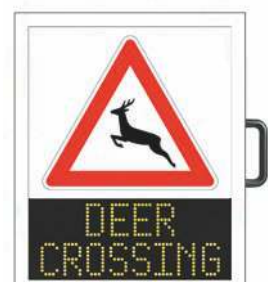
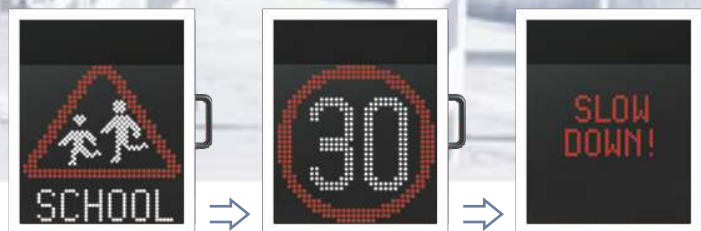Big casing with picture.
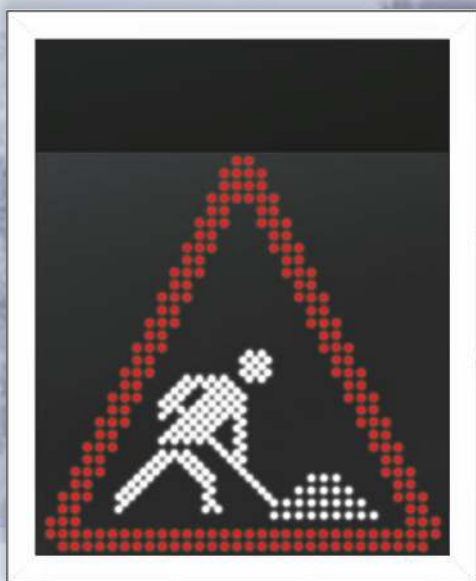
Dimensions:
63.4 x 84.4 x 18.2 cm / 25" x 33.2 " x 7.2" (W x H x D)

LED-image program

| LED editor | LED colour change | Timer | Data storage (optional) |

m-SID SIGN

The battery-operated LED-full matrix M-SID is well suited for showing features (texts, warning instructions and traffic signs). These features can be displayed as single images or as sequences/animations and are easy stored in up to 15 programs. The M-SID SIGN has been designed for mobile usage with high visibility, long battery operating time and low weight.

Technical specifications:

- Rotary switch for quick on-site selection of the 15 programs
- Time scheduled programming
- High-performance LED display with automatic adaption of brightness
- Special designed protection mask for excellent visibility even under strong sunlight
- Options:
- An integrated radar detector enables:
  - speed activated display
  - showing the current driven speed (Your speed … mph), incl. data storage and evaluation software
- Bespoke face plate available
- Up to 4 logic inputs for connecting external sensors (e.g. measuring vehicle heights or wind forces)
- Temperature sensor
- Remote control by radio or SMS
- DCF radio controlled clock

Resolution:	64 x 64 Pixel (55 x 55 cm / 21.7" x 21.7")
Number LEDs:	4096
Weight:	16 kg / 35 lbs
Electrical performance:	ca. 4W @12V
Protectionclass:	IP 65
Ambient temperature:	-20° C / +70°C
LED apertureangle:	30°

Details:

LED-images for varied usage. Secure accident black spots, road-work and in-company traffic or use the M-SID for temporarily controlling traffic or redirecting pedestrians.
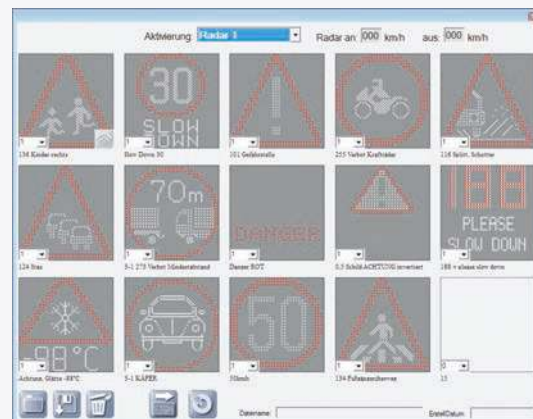
Images can be chosen from the M-SID database or can be created and transmitted with the aid of the M-SID editor to the LED-full matrix.

m-SID SPEEDCAM

| Video surveillance | USB flash drive compatible | E-Mail communication | Data storage |

The new M-SID SPEEDCAM is your mobile tool for speed enforcement on your private premises. Exceeding the speed limit will trigger the recording of an image sequence. The stored images contain time and speed information. These records can be retrieved over the factory network or directly by e-mail to the health and safety officer or security at the front gate. The M-SID SPEEDCAM can be coupled to any of the M-SID product range or be used independently with its own radar detector and battery power.

Technical specifications:

32 mph
02.03.2016 | 11:03:29 / +1000 ms | image-sequence 1/3 | detected speed = 32mph
Location: Morelock Signs | WV13 3RS Willenhall | ID = 5678 |
M-SID SPEEDCAM Version 1.0.1 (13VTP 1234)

33 mph
02.03.2016 | 11:03:29 / +1000 ms | image-sequence 2/3 | detected speed = 33mph
Location: Morelock Signs | WV13 3RS Willenhall | ID = 5678 |
M-SID SPEEDCAM Version 1.0.1 (13VTP 1234)

35 mph
02.03.2016 | 11:03:29 / +1000 ms | image-sequence 3/3 | detected speed = 35mph
Location: Morelock Signs | WV13 3RS Willenhall | ID = 5678 |
M-SID SPEEDCAM Version 1.0.1 (13VTP 1234)

The image sequence shown above, illustrates how the speed violation on your premises can be identifed and documented. The M-SID SPEEDCAM is not generally recording image data, only speeding cars, trucks or fork lifters are logged in the internal memory. The logged data set consists mainly of: a speed value, the location, a time stamp and images of the speeding vehicle.

Control panel inside the battery box.

Due to the 12V battery power supply M-SID SPEEDCAM is a mobile device which offers several interfaces (USB, Bluetooth, Wi-Fi, LAN, HSDPA) to download or transfer the collected data. The control panel (see fig.) allows the user to change parameter settings on site.

YOUR SPEED

Dimensions: 37 x 26 x 23 cm / 14.6" x 10.2" x 9.1" (W x H x D)
Weight: approx. 3kg / 6.6 lbs
The radar detector and the battery are behind the front lids.

m-SID COUNT II

Lightweight casing

Stealth mode

Data storage

The compact traffic counter M-SID COUNT II is easy to install in all locations, due to its small, lightweight and robust casing it is very flexible and mobile. The long operating time enables measurements in both directions for more than 2 weeks.

Technical specifications:

- Exact collection of single data: Speed, number of vehicles, vehicle classification, direction and distance in seconds
- 10 speed classes, 6 vehicle classes possible
- Measurement range from 1-159 mph (1 – 255 km/h)
- Adjustable for approaching vehicles, leaving vehicles or both directions
- Data storage of 360 000 vehicles (4 MB), extensible to 8 MB
- Data interface for a swift data transfer
- Communication and evaluation software M-SID GRAPH for up to 20 different charts
- Mounting height possible between 0.5 and 3.20 m
- Integrated Doppler radar (24.165 GHz / 100mw EIRP)

- Measurement possible in two directions
- Long operating time (more than 2 weeks with only one battery)
- Small, light and solid casing
- High mobility

- Bluetooth communication (optional)
- Automatic data transfer by email + GPS location (optional)
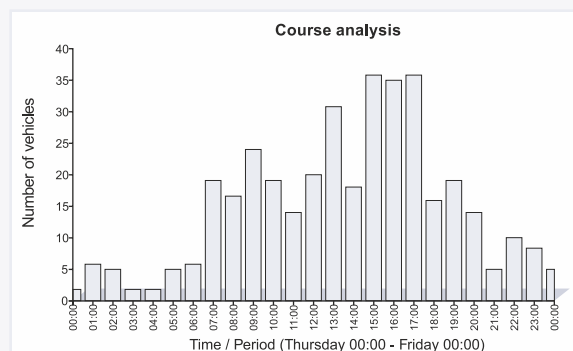
Details:

Course analysis

Time / Period (Thursday 00:00 - Friday 00:00)

Location: New Street, Birmingham **Operator:** G. Smith
Starter time: Sunday, 14.02.2016, 15:00 h **Finishing time:** Monday, 15.02.2016, 00:00 h

Frequency analysis - all vehicles

Speeds						Total
< 10	71	10	0	1	0	82
< 20	152	123	7	7	4	293
< 30	222	775	44	59	22	1122
< 40	671	5107	201	359	107	6445
< 50	735	19624	555	597	108	21619
< 60	177	8139	213	95	9	8633
< 70	19	989	19	4	0	1031
< 80	7	110	4	0	0	121
< 90	1	16	0	0	0	17
< 100	0	3	0	0	0	3
Sum	2055	34896	1043	1122	250	39366

Location: New Street, Birmingham **Operator:** G. Smith
Starter time: Sunday, 14.02.2016, 15:00 h **Finishing time:** Monday, 15.02.2016, 00:00 h

Programming and data transfer:

morelock graph

Redesigned and easy to handle user interface.

m-SID

morelock count

morelock

Our software for
data evaluation on CD.

Version:

morelock graph

Morelock graph is a Windows® based communication and evaluation software we provide to our customers free of charge for an unlimited number of PCs. In addition to the user friendly programming of our devices morelock graph offers an extensive data evaluation and easy installation. Another benefit are regular free of charge software updates by download.
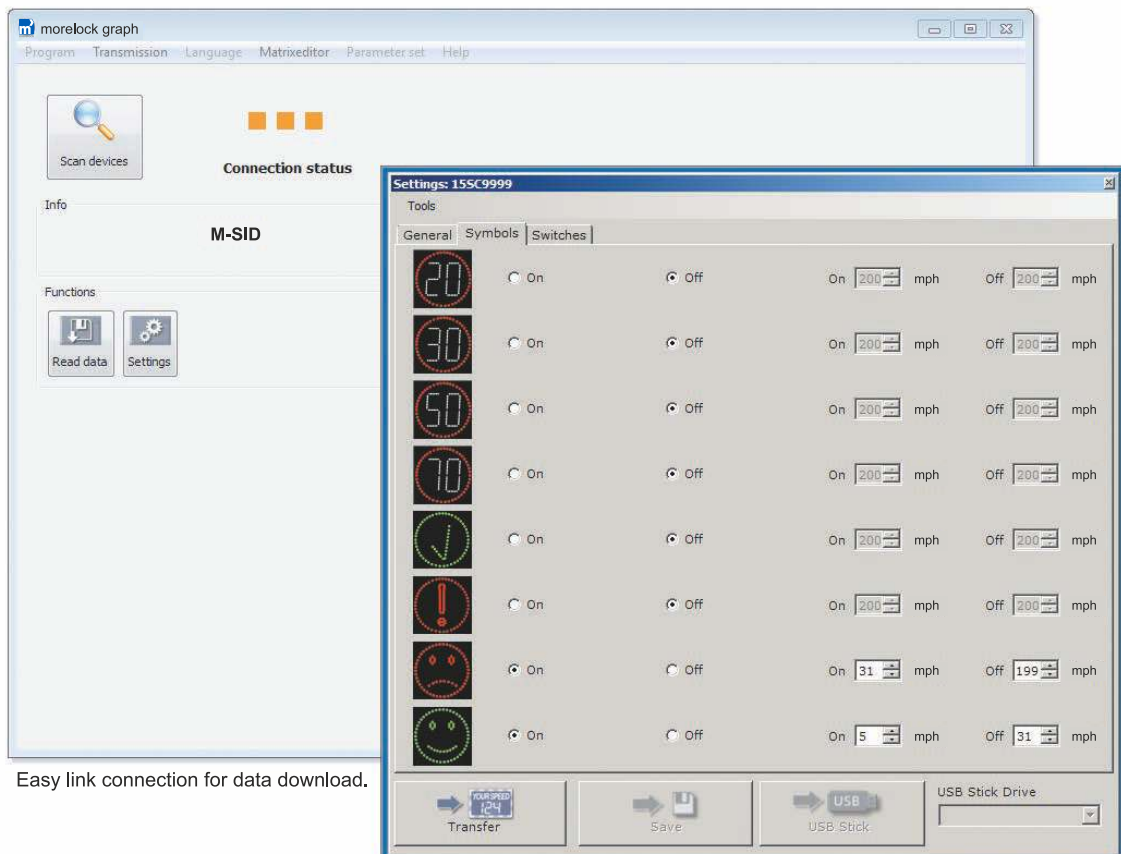
Easy link connection for data download.

User friendly programming of the LED signs.

Data evaluation:
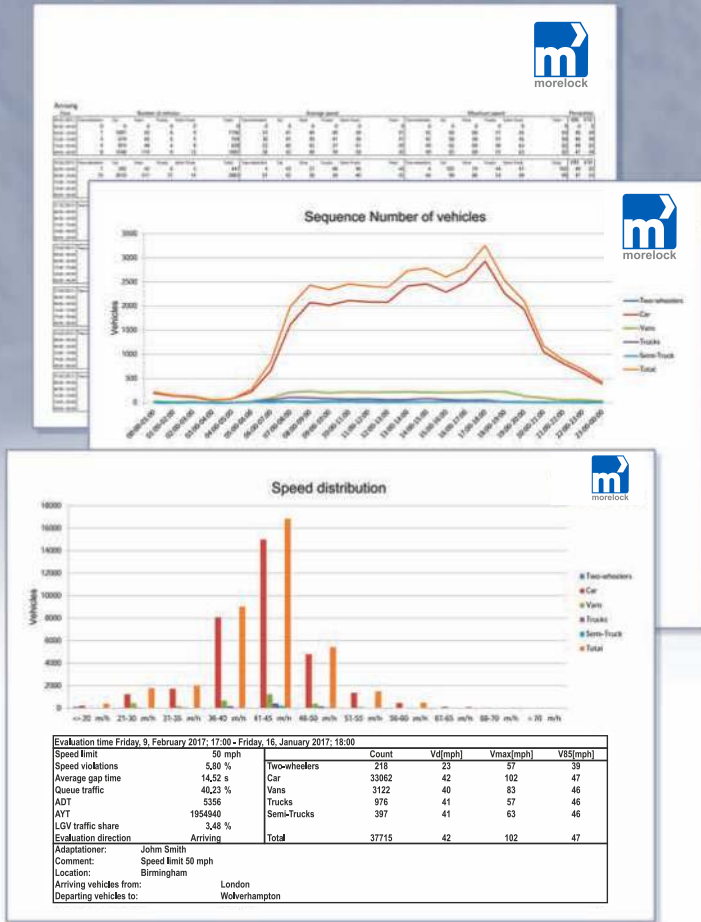
Sample evaluation of a morelock count traffic counter.
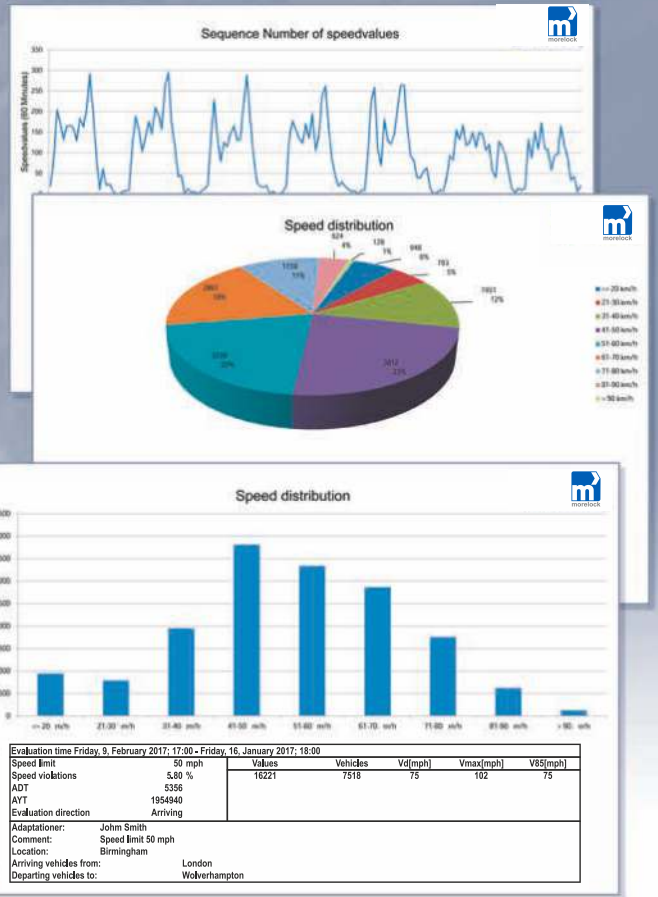
Sample evaluation of a M-SID speed display.
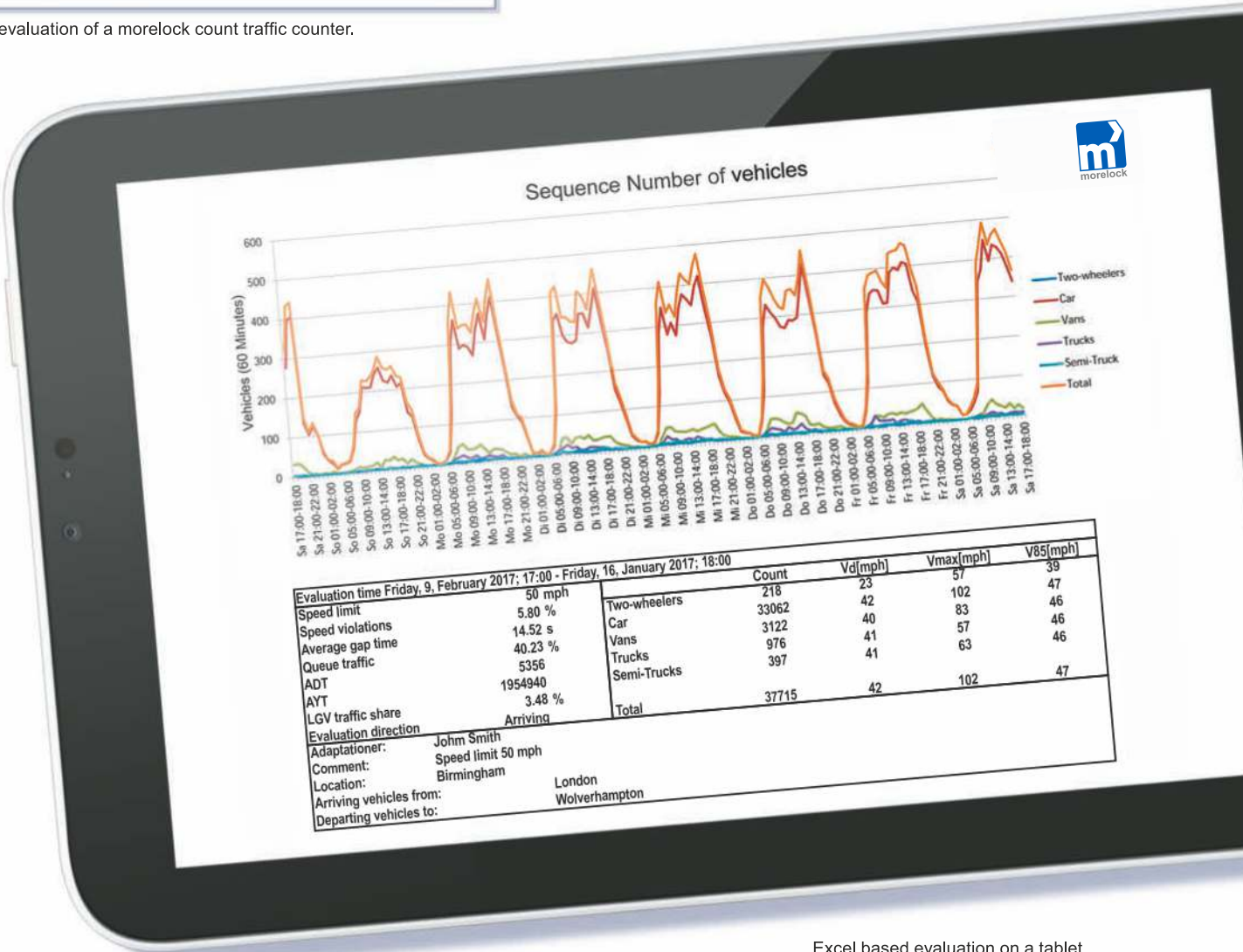
Excel based evaluation on a tablet.

Accessories and options:

Interfaces:
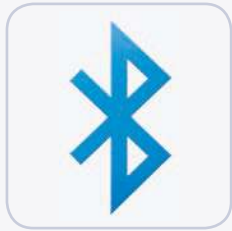
Bluetooth interface	USB interface	Data transfer by email + GPS	Manual parameter setting	Relay output

Power supply:

Battery 12V/17Ah	Battery charger	230V power supply (fixed)	230V power supply (pluggable)	Solar power supply (50W)

Mounting:

Lockable mounting kit (for poles ø 40 - 160mm)	Tripod (steel)	Tripod (aluminium)	Two-part pole + ground sleeve	Mobile battery trolley

Design:

Fold-away front screen (M-SID MINI + M-SID TEXT) (customized design)	Additional text board (small) (customized design)	Additional text board (large) (customized design)	Integrated LED-flashlights (yellow and red)
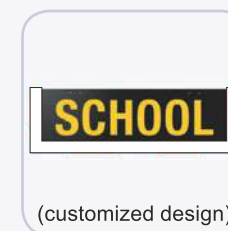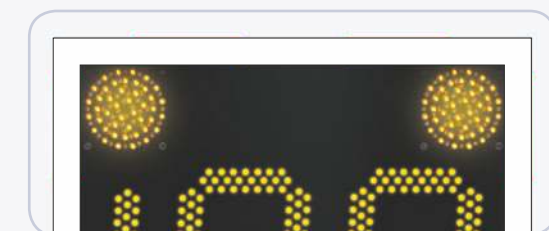
Transport:

Flightcase (M-SID BASIC and BASIC-D)	Flightcase (M-SID MINI)	Flightcase (M-SID COMPACT 3000)	Flightcase (M-SID PLUS)

morelock app   enables mobility!

You wish to make on-site changes to your M-SID device? Or you wish to read your measured data locally? No problem! Simply install the morelock app on your Android smartphone or tablet and connect via Bluetooth with your M-SID. All settings can be easily executed via click and slide control and transferred to the M-SID.
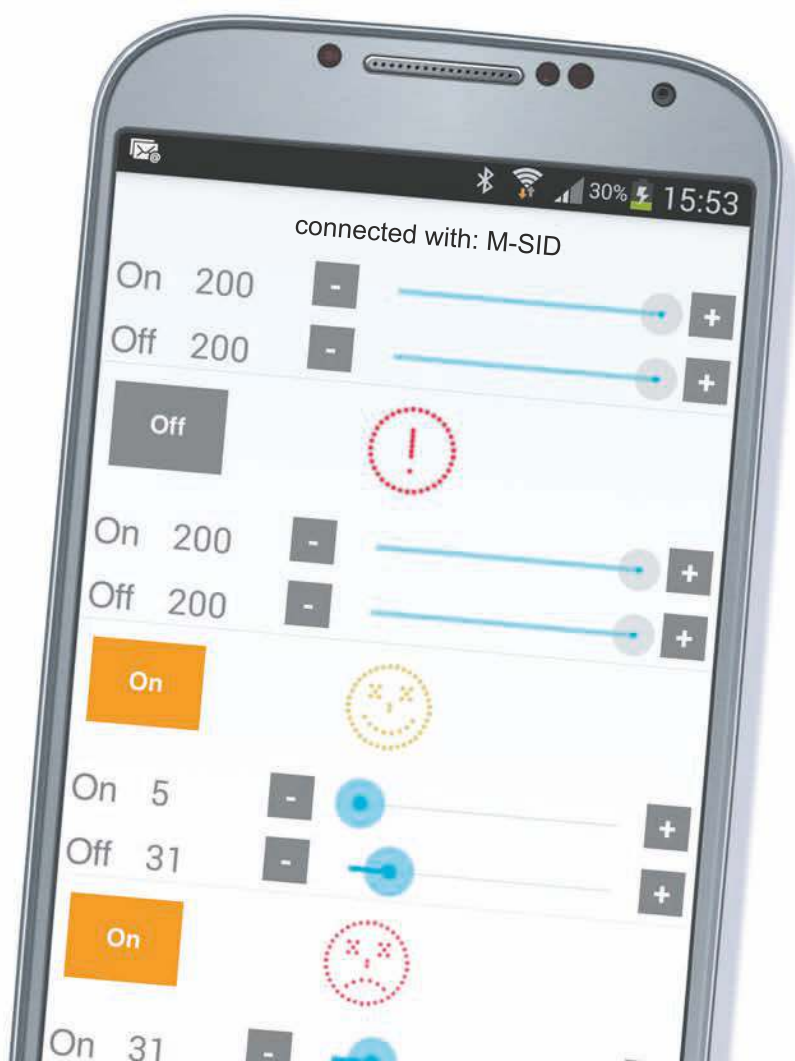
Just install the app and take our software with you!

*Exclusively available from Morelock Signs Ltd.

Comparison:
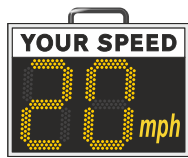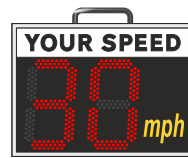
	m-SID BASIC	**m**-SID BASIC-D	**m**-SID MINI	**m**-SID COMPACT 3000
2-digit LED display	✓	✓	-	-
3-digit LED display	-	-	✓	✓
Large LED display	23 cm / 9"	23 cm / 9"	32,5 cm / 12,8"	32,5 cm / 12,8"
LED colour exchange	-	✓	✓	✓
LED protection mask	✓	✓	✓	✓
Battery level indicator	✓	✓	✓	✓
Data storage	-	✓	✓	✓
Stealth mode	-	-	✓	-
Smile function	-	-	✓	✓
LED text editor	-	-	-	-
Speed limit function	-	-	✓	✓
Bidirectional measurement	-	-	✓	✓
Timer	-	-	✓	✓
USB flash drive compatible	-	-	✳	✳
Bluetooth communication	-	✳	✓	✓
E-Mail communication	-	-	✳	✳
Manual parameter setting	-	-	✳	✳
Different parameter per time/day	-	-	✓	✓
Integrated LED flashlights	-	-	-	✳

✓ Standard equipment   ✳ optional   — not available

m-SID VARIO	m-SID PLUS SMILE	m-SID PLUS	m-SID TEXT	m-SID SIGN
-	-	-	-	-
✓	✓	✓	-	✓
31,5 cm / 12,4"	32,5 cm / 12,8"	32,5 cm / 12,8"	-	up to 54 cm / 21.3"
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	-	-
✓	✓	✓	✓	*
-	-	-	✓	-
-	✓	✓	-	✓
✓	-	✓	✓	✓
-	✓	✓	-	*
✓	✓	✓	-	-
✓	✓	✓	✓	✓
*	*	*	-	-
✓	✓	✓	✓	*
*	*	*	-	-
*	*	*	-	✓
✓	✓	✓	-	✓
*	*	*	-	✓

✓ Standard equipment   ✴ optional   — not available