

PORTABLE TRAFFIC ANALYZER



HI-STAR[®]

Highway Statistical Traffic Analysis Recorder

NC-47 (Count Only)

NC-97 (Count, Speed & Classification)

DATA COLLECTION

PORTABLE TRAFFIC ANALYZER COLLECTS DATA WITHOUT ANY EXTERNAL SENSORS, LOOPS OR TUBES!



SIZE: 6.5 in x 5.5 in x 0.625 in
(165 mm x 140 mm x 15.9 mm)

Highway Data Management (English) - C:\Program Files\HDM\Sample.mdb

Index	ID	Location	Sheet	City	State	Lane	Start Date	Start Time
1	1163	1ST STUDY	RAMP	CENTERVILLE	PA	RIGHT LANE	07/29/98	12:00 AM
2	1011	2ND STUDY	RAMP	CENTERVILLE	PA	LEFT 40 WEST	07/29/98	12:00 AM
3	306	3RD STUDY	TOWARDS BROWNVILLE	GRINDSTONE	PA	STRAIGHT	07/29/98	12:00 AM
5	1262	RT 40 EAST	FROM OLD RT 40 BRON	GRINDSTONE	PA	STRAIGHT	07/29/98	12:00 AM
6	1004	FROM OLD RT 40 BRON	RT 40 EAST TO LIGHT	GRINDSTONE	PA	TURN LEFT	07/29/98	12:00 AM
7	1276	RT 40 WEST	TURN TO 160	GRINDSTONE	PA	STOP LANE	07/29/98	12:00 AM
8	691	RT 40 WEST	STRAIGHT TOWARD BR	GRINDSTONE	PA	STRAIGHT	07/29/98	12:00 AM
9	691	TOWARD GRINDSTONE	RT 40 WEST EXIT	GRINDSTONE	PA	EXIT	07/29/98	12:00 AM
10	1261	RT 40 EAST NEAR POZ	RT 40 EAST NEAR POZ	GRINDSTONE	PA	RIGHT	07/29/98	12:00 AM
11	672	NEW RT 40 TOWARD B	RT 40 WEST TOWARD	GRINDSTONE	PA	LEFT	07/29/98	12:00 AM

Time	Vehicles	Time	0	10	15	20	25	30	35	40	45	50	55	60	65	70	71
07/29/98 12:15 AM	3	Time	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
07/29/98 12:45 AM	7	0 to 20	07/29/98 12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07/29/98 01:00 AM	2	21 to 40	07/29/98 12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07/29/98 01:15 AM	0	41 to 60	07/29/98 12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07/29/98 01:30 AM	4	61 to 80	07/29/98 12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07/29/98 01:45 AM	3	81 to 100	07/29/98 12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Highway Data Management Software (HDM) for Windows[®] provides user-friendly manipulation of data with fast, easy generation of reports, displays, charts and graphs. The HI-STAR will help make your traffic surveys easier, more comprehensive and accurate.

FEATURES

- ▶ Vehicle Count
- ▶ Length Classification
- ▶ Vehicle Speed
- ▶ Roadway Occupancy
- ▶ Wet / Dry Surface Condition
- ▶ Roadway Surface Temperature
- ▶ Charts, Reports & Graphs

OPERATION

The HI-STAR[®] portable traffic analyzer is a totally self-contained unit that monitors traffic flow conditions around the clock to provide you with the data you need. Utilizing Vehicle Magnetic Imaging technology, the HI-STAR[®] records traffic and roadway conditions that are exported to Highway Data Management software (HDM) for fast generation of charts, reports, histograms, and graphs.

APPLICATIONS

- ▶ Multi-Lane Highways
- ▶ City Streets
- ▶ Intersections & Turn Lanes
- ▶ Unimproved Roads
- ▶ Construction Zones
- ▶ State & Recreational Parks
- ▶ Casinos & Sports Arenas
- ▶ Airports
- ▶ Military Bases



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Quixote
Transportation Technologies, Inc.

HI-STAR[®] NC-47 and NC-97 SPECIFICATIONS

Sensor: GMR magnetic chip for Vehicle Magnetic Imaging
Speed and Class: 15 speed bins, 8 length bins
Power: Nickel metal hydride battery 3.6 Volt @ 1100 mAh
Battery Charging: Automatic processor managed for maximum capacity
Weight: 2.0 lbs (56.7 g)
Operating Temp: -22°F to 167°F (-30°C to +75°C)
Dimensions: 6.5 in x 5.5 in x 0.625 in (165 mm x 140 mm x 15.9 mm)
Housing Material: Die-cast aluminum
Occupancy: Percent occupancy over report interval
Count Period Frame Mode: 1 to 120 min
Computed Values: English or metric
Data Program /Read Rate: 9600 baud RS-232
Real-Time-Clock: Yr, Mo, Day, Hr, Min, Sec
Data Storage Memory: 64 KB with data compression
Wet/Dry & Temp Measurements: -13°F to +167°F (-25°C to +75°C)
Headway Factor: Automatic 10 to 100 mph (16 to 160 kmh)

Length Classification (% of Volume): 8-bins (user selectable length range) *
Speed Class (% of Volume): 15-bins (user selectable speed range) *
Vehicle Count Accuracy: Free flow > 99.0%, ± 1 count
Vehicle Count Accuracy for Slow/Stop Vehicles: > 95.0%, ± 1 count
Vehicle Speed Accuracy: +/- 4.2% @ 95% probability *
Vehicle Length Accuracy: +/- 8% @ 95% probability at speeds > 15 mph (24 km/h) *
FCC Wireless Verification: 418 MHz and 433 MHz
 Serial on/off data at 1200 baud
Wireless Data Format for each Vehicle: Total=11 byte preamble-speed-class-CRC *
 *MODEL NC-97 ONLY



THE HI-STAR PROTECTIVE COVER

The new protective cover, especially designed for the NC-47 and NC-97 series, is constructed to withstand the impact of heavy vehicles and is impervious to oil, fuel and other chemicals. Placed over the Hi-Star, the cover is easily installed using a screw drill or powder activated nail gun. After the traffic study is complete, remove the cover and it is ready for use on another installation.



WWW.QTTINC.COM



Quixote Transportation Technologies... **COLLECT. FORECAST. INFORM.**

DISTRIBUTED BY:

Contact Nu-Metrics for inquiries about any of the company's traffic analyzers, distance measuring instruments, integrated warning systems or to locate your nearest distributor. Please visit <http://www.nu-metrics.com> for more information.

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