RetroTek-D
Key Specifications

Measuring Geometry	30 meters. To CEN Geometry, CEN EN 1436, ASTM E 1710 & ASTM E 3320
Observation Angle	EN1436: 2.29º ASTM E 1710: 1.05º ASTM E 3320: 1.05º
Illumination Angle	EN1436: 1.24º ASTM E 1710: 88.76º ASTM E 3320: 88.76º
Width of measuring field	Across lane width ~ 16ft (4.88m)
Measuring distance	In front of vehicle ~ 39ft (12m)
Measuring speed - minimum	No Minimum
Measuring speed - maximum	Evaluated to 75MPH (120Km/H)
Measuring range RL	0 – 2,000 mcd.m-2.lx-1
Reflective Pavement Markers	Measures and counts presence and absence
Double Lines	Measures and reports each line individually or combined
Marking line width	Measures the night-time visible width
Driver display	Microsoft Surface Pro
Camera rate	20 Frames per second
Measurements per second	50 lines per frame = 1,000 lines per second
RL accuracy	Typically +/- 5%
RL repeatability	Typically +/-3%
GPS System	Multi constellation GNSS , Reads GPS, GLONAS, Galileo & Baidu
GPS Accuracy	Accurate to ~2.5m with UDR (untethered dead reckoning) Works in long tunnels
Light Source	Customized LED Projectors
Output results formats	GPS tagged, CSV, KML, SHP, PDF & video files
Video format	HD Video Color
Connection to laptop	Gigabit Ethernet Cable
Image output	Color image stream
Day Contrast	Day Time Contrast – ratio of marking to background road surface
Operating Temperature	32ºF - 131ºF (0ºC to 55ºC)
Storage Temperature	5ºF - 140ºF (-15ºC to 60ºC)
Humidity Range	85% Non-condensing
Dimensions (L x W x H)	~42 x 9 x 14inches (107 x 22 x 36cm)
Weight of unit	~55 lbs (25Kg)
Vehicle Mounting	Standard 2” Square Tow Hitch
Ground Clearance	~7 Inches (180mm) when surveying ~11 Inches (280mm) when not in use
Dust/Water Proofing	IP66