



Under Vehicle Surveillance Systems Specification Sheet

Automatic undercarriage imaging that scans a vehicle while it drives over, without stopping traffic.

Models in this sheet: VIKING 170 Degree Under Vehicle Search Camera with LCD Display, Mobile Under Vehicle Scanning System, VX3300 Fixed Under Vehicle Surveillance System

Figures in this document are those published by the factory for each model. Where a value is shown as TBC it is not published, and we confirm it with the factory before order rather than estimate it. Specifications are subject to change without notice.

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1. VIKING 170 Degree Under Vehicle Search Camera with LCD Display

The VIKING under-vehicle camera puts a 170-degree adjustable infrared head on a three-section aluminium rod that extends to 110 cm and collapses to 90 cm without tools. The 4.3-inch colour LCD tilts through 150 degrees so a tall operator does not have to stoop, and the unit runs about 5 hours on its lithium battery at 1.5 kg.

Key benefits

- 170 degree adjustable infrared camera covering the full undercarriage
- Three-section aluminium rod extending to 110 cm, collapsing to 90 cm without tools
- 4.3-inch colour LCD adjustable through a 150 degree arc
- About 5 hours operating time from a lithium battery, 3 hours charging
- 1.5 kg unit weight with an arm rest and handle grip for long sessions

Specification

Camera	170 degree adjustable infrared, CCD with or without IR
Monitor	4.3-inch 16:9 colour LCD, adjustable through 150 degrees
DVR (DVR model)	up to 8 GB SD card recording
Eye-Wear Monitor (option)	42-inch visual size
Rods	Three-section light aluminium, extends to 110 cm, collapses to 90 cm
Trolley	Three wheel
Battery	Lithium
Using Time	about 5 hours
Charging Time	about 3 hours
Unit Weight	1.5 kg
Unit Packing	62 x 36 x 9 cm
Carton Weight	11 kg for 5 pieces
Power	12 V DC, charger 110 to 230 V AC

2. Mobile Under Vehicle Scanning System

This mobile UVSS scans a vehicle's undercarriage while it drives over, at speeds from 1 to 65 km/h, so traffic never stops. The scanning head weighs 18 kg at 410 x 370 x 93 mm, is IP68 rated for round-the-clock outdoor work, and bears more than 30 tonnes, which covers loaded trucks as well as cars.

Key benefits

- Scans while the vehicle drives over, at 1 to 65 km/h, with no stopping
- Bears more than 30 tonnes, covering loaded trucks
- IP68 rated for continuous round-the-clock outdoor operation
- 18 kg scanning head at 410 x 370 x 93 mm, genuinely portable
- 2048 pixel vertical resolution over a viewing width of at least 4 metres

Specification

Vertical Image Resolution	2048 pixels
Viewing Width	not less than 4 metres
Vehicle Speed	1 to 65 km/h
Effective Field of View	not less than 170 degrees
Auxiliary Light	100 W
Bearing Weight	more than 30 tonnes

Waterproof Grade	IP68, suitable for round-the-clock working
Scanning Device Weight	18 kg
Scanning Device Size	410 x 370 x 93 mm
Communication Interface	RS232 / RS422
Operating Temperature	-10°C to 55°C
Storage Temperature	-40°C to 75°C
Operating Voltage	110 to 240 V AC, 50/60 Hz

3. VX3300 Fixed Under Vehicle Surveillance System

The VX3300 is the fixed installation version, with a line-scan CCD camera at 5000 x 2048 pixels behind a 150 W LED illuminator, driven by a dedicated Grantech system host and a 22-inch 1920 x 1080 monitor. It scans while the vehicle moves, and its induction coil inputs trigger the capture automatically rather than needing an operator.

Key benefits

- 5000 x 2048 pixel line-scan CCD camera with 150 W LED illumination
- Scans during the vehicle's manoeuvre without stopping it
- Two induction coil channels triggering capture automatically
- Undercarriage images stored, retrieved, searched and compared
- 22-inch 1920 x 1080 operator monitor with a dedicated system host

Specification

Camera Sensor	Line-scan CCD
Camera Resolution	5000 x 2048 pixels
Camera Power Supply	24 V DC, 3 A
Illumination	LED, 24 V DC, 150 W
Screening Unit Size	1200 x 350 x 300 mm
Screening Unit Temperature Range	-20°C to 60°C
Controller Input	2 channels induction coil
Controller Output	1 channel switch type, 12 V DC
Communication Port	RS485, Ethernet optional
Controller Operating Temperature	-10°C to 55°C
System Host	Grantech SYM76941VGGA, Intel Celeron E3400 at 2.6 GHz
Memory	2 GB, 4 GB optional
Graphics	512 MB
Hard Disk	SATA2 500 GB
Networking	Dual LAN, at least one Intel Gigabit
Monitor	22 inch LCD, up to 1920 x 1080