

MatScanner™ System For MatManager™

The MatScanner™ system creates a surface temperature profile of a newly laid asphalt mat. As the paving job progresses the MatScanner™ system continuously registers high resolution IR line scans of the paved road and creates an IR temperature heat map on the MatManager™ operating screen. This enables paver operators to see if there are problems with thermal segregation on the paving job. Temperature data are correlated with all other data from the MatManager™ system (such as speed, position, start/stop) and sent encrypted to the MatWiser online platform for further analysis and review.

The MatScanner™ system is a sensor option for the MatManager™ system and will not be able to operate independently. The MatScanner™ system comprises the MatScanner™ camera unit and a MatScanner™ Interface Box. The components are connected to the MatManager™ system with a set of cables. A MatScanner system™ complete with cables and a carry case can be purchased as item number S-60810 MatScanner™ Kit.



MatScanner™ - S-51707



MatScanner™ Interface Box - S-51708

MatScanner™ System Specifications	
Part number	S-51707-8 (Scanner+Interface Box)
MatScanner™	
Partnumber	S-51707
Application	IR camera to create a temperature profile of newly placed asphalt
Sensor resolution	280 pixel horizontally (X)
Min. field of view angle	96° horizontally
Angle to ground surface	45° to 90°
Temperature range	0 to 250°C / 32°F to 482°F
Measurement accuracy	+/- 2.0°C or +/- 2%
Temperature resolution	0.1°C
Dimensions (LxWxH)	23x9.5x21cm / 9x3.7x8.3in
Weight	1.8kg / 4lbs
Storage Temperature	-40°C to +70°C / -40°F to 158°F
Operating Temperature	0°C to +50°C / 32°F to 122°F
Connections	M12 5 pin
IP Rating	IP 67 (Electronic enclosure only)
MatScanner™ Interface Box	
Partnumber	S-51708
Application	MatScanner™ interface for MatManager™
Power Supply	12/24 Volt System (10 - 30 VDC)
Power Consumption	Typical at 24VDC 200mA
Dimensions (LxWxH)	28x7x15cm / 11x2.8x6in
Weight	1.5kg / 3.3lbs
Operating Temperature	-10°C to +70°C / 14°F to 158°F
Storage Temperature	-40°C to +85°C / -40°F to 185°F
Connections	Power/CAN, M12, 4 Pin Camera, M12, 5 Pin
IP Rating	IP 66

Part numbers S-51707 and S-51708 are digitally linked and can only be purchased in kit S-51707-8 or S-60810.
TF-Technologies reserves the right to make changes without further notice.

v. H820603

MatScanner™ System Kit and mounting options

MatScanner™ Kit, S-60810		
Kit bill of materials		
MatScanner™	S-51707	1 pcs
MatScanner™ Interface Box	S-51708	1 pcs
I-cable for MatScanner™ (5m)	S-51716	1 pcs
Y-cable for MatScanner™	S-51710	1 pcs
MatScanner™ Carry Case	S-51711	1 pcs

Part numbers S-51707 and S-51708 are digitally linked and can only be purchased in kit S-51707-8 or S-60810.



MatScanner™ Mounting Options		
MatScanner™ Mount, for roof mounting	S-51722	Vogele/Sumitomo
MatScanner™ Mount, for pole mounting	S-51723	Not machine specific
MatScanner™ Mount, for roof mounting	S-51724	Dynapac SD2500

Contact your local TF Technologies dealer for advice on suitable mountings

