

# 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™

MatScanner™ System Specifications	
Part number	S-51707-8 (Scanner+Interface Box)
<b>MatScanner™</b>	
Parnumber	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
<b>MatScanner™ Interface Box</b>	
Parnumber	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

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



MatScanner™ Box