

Technical performance

The SCAPE Grid Scanner Recognition™ Compact can work in different ranges without re-calibration. Below are shown three examples. Any range in between can also be used. There is a linear relation between the data below and the ranges in between.

	Near Range	Far Range	Extended Range
Expected Distance to Object	340mm	445mm	TBAmm
Working Range at Expected Distance	280-480 ² (mm)	325-565 ² (mm)	TBA ² (mm)
Field of View at Expected Distance	205*205mm	271*271mm	TBAmm
Lateral Resolution (XY-plane)	1.05mm	1.37mm	TBAmm
Min Surface Area for Scanning at Expected Distance	4.9*4.9mm	5.8*5.8mm	TBAmm
Depth Uncertainty RMS at Expected Distance	0.25mm	0.44mm	TBAmm

The SCAPE Grid Scanner Recognition™ Standard can work in different ranges without re-calibration. Below are shown three examples. Any range in between can also be used. There is a linear relation between the data below and the ranges in between.

	Near Range	Far Range	Extended Range
Expected Distance to Object	460mm	600mm	730 ² (mm)
Working Range at Expected Distance	400-630 ² (mm)	450-750 ² (mm)	480-860 ² (mm)
Field of View at Expected Distance	275*275mm	395*395mm	434*434mm
Lateral Resolution (XY-plane)	1.42mm	1.85mm	2.25mm
Min Surface Area for Scanning at Expected Distance	5.8*5.8mm	7.8*7.8mm	11.3*11.3mm
Depth Uncertainty RMS at Expected Distance	0.30mm	0.50mm	0.80mm



OP13-08



OP13-09