Scanner Comparison Testing (by Lionel-27/05/2021)

	Barcode Size: mm (mils)	Honeywell 1900GHD2USBA	Honeywell 1950GHD2USBA	Honeywell 1950GUD2USBA
1D (Code 128)	1.00 (40)	ü (@ >=30cm)	ü (@ >=30cm)	ü (@ >=30cm)
	0.50 (20)	ü (@ 28cm)	ü (@ >=30cm)	ü (@ 21cm)
	0.38 (15)	ü (@ 22cm)	ü (@ >=30cm)	ü (@ 16cm)
	0.33 (13)	ü (@ 19cm)	ü (@ >=30cm)	ü (@ 18cm)
	0.30 (12)	ü (@ 17cm)	ü (@ >=30cm)	ü (@ 17cm)
	0.25 (10)	ü (@ 14cm)	ü (@ >=30cm)	ü (@ 13cm)
	0.20 (8)	ü (@13cm)	ü (@ >=30cm)	ü (@ 10cm)
	0.15 (6)	ü (@ 10cm)	ü (@ 26cm)	ü (@ 9cm)
	0.12 (5)	ü (@ 9cm)	ü (@ 20cm)	ü (@ 8.5cm)
DPM (Sample from Tanveer)	3mm x 3mm	ü (@ 9cm)	ü (@ 9cm)	ü (@ 9cm) fastest response
DPM	5mm x 5mm	ü	ü	ü
DPM	4mm x 4mm	ü	ü	ü
DPM	3mm x 3mm	ü	ü	ü
DPM	2.5mm x 2.5mm	ü	û	ü
DPM	2mm x 2mm	û	û	ü
DPM	1.5mm x 1.5mm	û	û	Ø (inconsistent)
Small QR	5mm x 5mm	ü (@ 10cm)	ü (@ 17cm)	ü (@ 10cm)
Small Datamatrix	5mm x 5mm	ü (@ 14cm)	ü (@ 25cm)	ü (@ 14cm)
PCB QR	4mm x 4mm	û	û	Ø (hard to read, sometimes can)

Legends	
ü	OK
û	Can't read
Ø	Inconsistent

Environment for testing:
Based on scanning 1D (Code 128) barcode, under the same lighting condition.
Tested scanning of different barcode sizes until scanner detected good readings.
Distance is then recorded in the above chart for comparison.
Apparently, all 3 scanner models can read the different range of barcode sizes.
Only difference is the distance of reading.
Scanning response about the same, overall quite snappy.

General Ranking: (1st = best performance)		Remarks
1st	1950GHD2USBA	Generally, best overall
2nd	1900GHD2USBA	Almost similar to 1950GHD but required nearer distance to scan
3rd	1950GUD2USBA	Good for small size barcodes