Axicon linear series barcode verifier

Performance Qualification
results form V6

(PQ) Test 1 **Verifier equipment (page 25 of the instruction book)**

Required	Results
Axicon verifier model number	
Serial number of verifier	
Firmware version	
Serial number of calibration card	
Expiry date of calibration card (one year from test date)	

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

(PQ) Test 2 Validity of test cards (page 26 of the instruction book)

Required	Results
Cards' certificate of conformance	
Four different test cards	
No damage to any of the test cards	
Expiry date of test cards	

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

(PQ) Test 3 Software validation (page 26 of the instruction book)

Required	Results
Software version installed	
Latest software version	
Software updated Y/N?	
If software has not been updated, please provide reason.	

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

(PQ) Test 4 LED intensity (page 27 of the instruction book)

Required	Results
Calibration card serial number	
Calibration card expiry date	
Rmin figure between 3% and 15%	
Rmax figure between 60% and 88%	
Result of LED intensity test	

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

(PQ) Test 5 Reflectance repeatability (page 28 of the instruction book)

Test	Rmin figure achieved should be 3% +/- 2%	Rmax figure achieved - should be 88% +/- 3%	Within specified tolerance ?
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

(PQ) Test 6 Optical path accuracy test (page 28 of the instruction book)

Test	Results (Allowable range: 70% to 95%)	Pass/Fail?
1		
2		
3		
4		
5		

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

(PQ) Test 7 Pixel size (page 29 of the instruction book)

Required	Results
Measured NBW	
This figure to be ± 3 µm of figures below	
Pass or fail	
Axicon model series	**Expected NBW**
6000	330 µm
6500	500 µm
7000	500 µm

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

(PQ) Test 8 Accurate focussing (page 31 of the instruction book)

Required	Results
Measured modulation percentage	
Modulation percentage on card	
Is measured figure greater than figure shown on the card?	

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

(PQ) Test 9 Consistent Rmax (page 33 of the instruction book)

Required	Results
Rmax from Linear-A barcode	
Rmax from Linear-B barcode	
Are these two results within 4% of each other?	

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

Summary of tests for Performance Qualification

Test Number	Required	Completed
Test 1	LED intensity test	
Test 2	Repeatability test	
Test 3	Optical path accuracy test	
Test 4	Accurate pixel size test	
Test 5	Accurate focussing test	
Test 6	Consistent Rmax test	

Examiner signature: .... Date: ....

Confirmed by: .... Date: ....

Final assessment

If all the tests have been passed, the verifier has passed its Performance Qualification, and the following certificate of conformance may be completed. If any of the tests has failed, contact Axicon or your reseller to arrange for the verifier to be serviced.

Certificate of Performance Qualification

This is to certify that I have checked the following verifier today:

Axicon verifier model: ....

Serial number: ....

in accordance with the Axicon Installation Qualification test protocol.
The verifier will now operate in accordance with Axicon's specifications and has been configured to meet the user's requirements.

The verifier has passed all the defined tests within the prescribed tolerance limits and conforms to ISO/IEC 15426-1. It is working in accordance with the manufacturer's specifications.

This performance qualification test protocol must be used with valid test cards. The four cards must all have the same batch number and not have reached their expiry date.

The details of the cards supplied with this test protocol are set out below:

Test cards batch number: ....

Expiry date of cards: ....

Date: ....

Signed: ....

Name and job title: ....