

Certificate of Calibration

72 Federal Rd
Parsonsfield, ME 04047

Cert #: 2020-139


Service Provided To

PIONEER-DIETICS
73 WOODROCK RD
WEYMOUTH, MA, 02189

Contact Info

JERRY LARSON

Equipment Information

	I.D. RSC25P1283
Serial Number	RSC25P1283
Manufacturer	RAM OPTICAL INSTRUMENTS
Model Number	QVI SPRINTMVP 250
Type	VISION MEASURING SYSTEM
Description	VISION MEASURING SYSTEM

Calibration Result:	ADJUSTED
Received Date:	12/9/2020
Cal Date	12/9/2020
Cal. Due Date:	12/31/2021
Temp./RH	70.3 / 29
Cal. Interval	12 MONTHS
Cal Procedure	QCP-002
Service Technician	01

Calibration Notes

This instrument has been calibrated using primary and/or secondary standards whose calibration is traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST). Some measurements are traceable to natural, physical, consensus or ratio-type standards. The expanded measurement uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2 providing a confidence level of approximately 95%, unless otherwise noted. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining a pass or fail condition. The reported calibration data is valid only at the time of the test and relate only to the item being calibrated. The calibration due date appearing on this certificate and calibration label are solely determined by the customer and do not imply continued conformance to specifications. This certificate shall not be reproduced, except in full, without the express written permission of QualCal Services LLC.

Calibration Standards Used

I.D.	Description	Last Cal.	Cal. Due Date
HA005-001	STAGE CALIBRATION RETICLE, 45 POINT	3/28/2012	3/31/2022

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AS FOUND

Row #	X Axis		Y Axis		Tolerance +	Tolerance -	Uncertainty	Result
	Nominal	Actual	Nominal	Actual				
Row: 1	-5.87496	-5.87502	2.87499	2.87482	0.0002	0.0002	5.944E-5	Passed
Row: 2	-2.93747	-2.93762	2.87498	2.87484	0.0002	0.0002	5.944E-5	Passed
Row: 3	-0.00003	-0.00017	2.87500	2.87481	0.0002	0.0002	5.944E-5	Passed
Row: 4	2.93735	2.93727	2.87500	2.87480	0.0002	0.0002	5.944E-5	Passed
Row: 5	5.87487	5.87462	2.87496	2.87484	0.0002	0.0002	5.944E-5	Failed
Row: 6	5.87490	5.87472	1.43746	1.43739	0.0002	0.0002	5.944E-5	Passed
Row: 7	2.93742	2.93736	1.43750	1.43737	0.0002	0.0002	5.944E-5	Passed
Row: 8	-0.00006	-0.00009	1.43748	1.43735	0.0002	0.0002	5.944E-5	Passed
Row: 9	-2.93746	-2.93755	1.43746	1.43737	0.0002	0.0002	5.944E-5	Passed
Row: 10	-5.87499	-5.87494	1.43748	1.43737	0.0002	0.0002	5.944E-5	Passed
Row: 11	-5.87494	-5.87486	-0.00002	0.00000	0.0002	0.0002	5.944E-5	Passed
Row: 12	-2.93745	-2.93748	-0.00004	0.00002	0.0002	0.0002	5.944E-5	Passed
Row: 13	0.00000	0.00000	0.00000	0.00000	0.0002	0.0002	5.944E-5	Passed
Row: 14	2.93742	2.93746	0.00005	0.00003	0.0002	0.0002	5.944E-5	Passed
Row: 15	5.87489	5.87481	-0.00002	0.00002	0.0002	0.0002	5.944E-5	Passed
Row: 16	5.87495	5.87491	-1.43751	-1.43721	0.0002	0.0002	5.944E-5	Failed
Row: 17	2.93747	2.93757	-1.43745	-1.43721	0.0002	0.0002	5.944E-5	Failed
Row: 18	0.00006	0.00010	-1.43755	-1.43723	0.0002	0.0002	5.944E-5	Failed
Row: 19	-2.93740	-2.93739	-1.43751	-1.43723	0.0002	0.0002	5.944E-5	Failed
Row: 20	-5.87496	-5.87481	-1.43751	-1.43726	0.0002	0.0002	5.944E-5	Failed
Row: 21	-5.87499	-5.87468	-2.87496	-2.87466	0.0002	0.0002	5.944E-5	Failed
Row: 22	-2.93751	-2.93729	-2.87498	-2.87466	0.0002	0.0002	5.944E-5	Failed
Row: 23	-0.00005	0.00019	-2.87494	-2.87465	0.0002	0.0002	5.944E-5	Failed
Row: 24	2.93737	2.93766	-2.87491	-2.87464	0.0002	0.0002	5.944E-5	Failed
Row: 25	5.87483	5.87498	-2.87497	-2.87465	0.0002	0.0002	5.944E-5	Failed

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AS LEFT

Row #	X Axis		Y Axis		Tolerance +	Tolerance -	Uncertainty	Result
	Nominal	Actual	Nominal	Actual				
Row: 1	-5.87496	-5.87499	2.87499	2.87499	0.0002	0.0002	5.944E-5	Passed
Row: 2	-2.93747	-2.93748	2.87498	2.87498	0.0002	0.0002	5.944E-5	Passed
Row: 3	-0.00003	-0.00004	2.87500	2.87501	0.0002	0.0002	5.944E-5	Passed
Row: 4	2.93735	2.93733	2.87500	2.87499	0.0002	0.0002	5.944E-5	Passed
Row: 5	5.87487	5.87488	2.87496	2.87494	0.0002	0.0002	5.944E-5	Passed
Row: 6	5.87490	5.87491	1.43746	1.43747	0.0002	0.0002	5.944E-5	Passed
Row: 7	2.93742	2.93741	1.43750	1.43750	0.0002	0.0002	5.944E-5	Passed
Row: 8	-0.00006	-0.00008	1.43748	1.43750	0.0002	0.0002	5.944E-5	Passed
Row: 9	-2.93746	-2.93749	1.43746	1.43746	0.0002	0.0002	5.944E-5	Passed
Row: 10	-5.87499	-5.87503	1.43748	1.43746	0.0002	0.0002	5.944E-5	Passed
Row: 11	-5.87494	-5.87497	-0.00002	-0.00002	0.0002	0.0002	5.944E-5	Passed
Row: 12	-2.93745	-2.93746	-0.00004	-0.00005	0.0002	0.0002	5.944E-5	Passed
Row: 13	0.00000	0.00000	0.00000	0.00000	0.0002	0.0002	5.944E-5	Passed
Row: 14	2.93742	2.93743	0.00005	0.00005	0.0002	0.0002	5.944E-5	Passed
Row: 15	5.87489	5.87490	-0.00002	-0.00003	0.0002	0.0002	5.944E-5	Passed
Row: 16	5.87495	5.87497	-1.43751	-1.43754	0.0002	0.0002	5.944E-5	Passed
Row: 17	2.93747	2.93749	-1.43745	-1.43748	0.0002	0.0002	5.944E-5	Passed
Row: 18	0.00006	0.00005	-1.43755	-1.43757	0.0002	0.0002	5.944E-5	Passed
Row: 19	-2.93740	-2.93741	-1.43751	-1.43751	0.0002	0.0002	5.944E-5	Passed
Row: 20	-5.87496	-5.87499	-1.43751	-1.43751	0.0002	0.0002	5.944E-5	Passed
Row: 21	-5.87499	-5.87502	-2.87496	-2.87497	0.0002	0.0002	5.944E-5	Passed
Row: 22	-2.93751	-2.93751	-2.87498	-2.87498	0.0002	0.0002	5.944E-5	Passed
Row: 23	-0.00005	-0.00004	-2.87494	-2.87495	0.0002	0.0002	5.944E-5	Passed
Row: 24	2.93737	2.93741	-2.87491	-2.87493	0.0002	0.0002	5.944E-5	Passed
Row: 25	5.87483	5.87485	-2.87497	-2.87500	0.0002	0.0002	5.944E-5	Passed

Description	Nominal	Tolerance -	Tolerance +	As Found	As Left	Units	Result
Parfocalization	0.0	-0.01	0.01	-0.02766	0.0009	in	Adjusted
Coaxial Alignment X Axis	0.0	-0.0005	0.0005	0.0001	-0.000057	in	Passed
Coaxial Alignment Y Axis	0.0	-0.0005	0.0005	-0.000009	-0.000009	in	Passed
Rotational Alignment	0.0	-0.0002	0.0002	-0.0007	-0.000027	in	Adjusted

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