

# Certificate of Calibration


72 Federal Rd  
Parsonsfield, ME 04047

Cert #: 2023-1152

Service Provided To  
PIONEER-DIETICS  
73 WOODROCK RD  
WEYMOUTH, MA, 02189

Contact Info  
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## 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:	12/14/2022
Cal Date:	12/14/2022
Cal. Due Date:	12/31/2023
Temp./RH:	69.7 / 56
Cal. Interval:	12 MONTHS
Cal Procedure:	QCP-002
Service Technician:	02

## Calibration Notes

Calibration performed IAW ISO 17025:2017

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
210098757	THERMOHYGROMETER	2/9/2021	2/28/2023
HA005-001	STAGE CALIBRATION RETICLE, 45 POINT	4/28/2022	4/30/2027

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**AS FOUND**

Row #	X Axis		Y Axis		Tolerance +	Tolerance -	Uncertainty	Result
	Nominal	Actual	Nominal	Actual				
Row: 1	-5.87496	-5.87513	2.87499	2.87490	0.0002	0.0002	3.506E-5	Passed
Row: 2	-2.93747	-2.93764	2.87498	2.87489	0.0002	0.0002	3.506E-5	Passed
Row: 3	-0.00003	-0.00016	2.87500	2.87486	0.0002	0.0002	3.506E-5	Passed
Row: 4	2.93735	2.93736	2.87500	2.87482	0.0002	0.0002	3.506E-5	Passed
Row: 5	5.87487	5.87477	2.87496	2.87482	0.0002	0.0002	3.506E-5	Passed
Row: 6	5.87490	5.87483	1.43746	1.43739	0.0002	0.0002	3.506E-5	Passed
Row: 7	2.93742	2.93744	1.43750	1.43739	0.0002	0.0002	3.506E-5	Passed
Row: 8	-0.00006	-0.00009	1.43748	1.43737	0.0002	0.0002	3.506E-5	Passed
Row: 9	-2.93746	-2.93758	1.43746	1.43741	0.0002	0.0002	3.506E-5	Passed
Row: 10	-5.87499	-5.87507	1.43748	1.43741	0.0002	0.0002	3.506E-5	Passed
Row: 11	-5.87494	-5.87501	-0.00002	0.00004	0.0002	0.0002	3.506E-5	Passed
Row: 12	-2.93745	-2.93751	-0.00004	0.00004	0.0002	0.0002	3.506E-5	Passed
Row: 13	0.00000	0.00000	0.00000	0.00000	0.0002	0.0002	3.506E-5	Passed
Row: 14	2.93742	2.93752	0.00005	0.00002	0.0002	0.0002	3.506E-5	Passed
Row: 15	5.87489	5.87492	-0.00002	0.00002	0.0002	0.0002	3.506E-5	Passed
Row: 16	5.87495	5.87500	-1.43751	-1.43724	0.0002	0.0002	3.506E-5	Failed
Row: 17	2.93747	2.93762	-1.43745	-1.43721	0.0002	0.0002	3.506E-5	Failed
Row: 18	0.00006	0.00008	-1.43755	-1.43724	0.0002	0.0002	3.506E-5	Failed
Row: 19	-2.93740	-2.93743	-1.43751	-1.43721	0.0002	0.0002	3.506E-5	Failed
Row: 20	-5.87496	-5.87496	-1.43751	-1.43723	0.0002	0.0002	3.506E-5	Failed
Row: 21	-5.87499	-5.87485	-2.87496	-2.87469	0.0002	0.0002	3.506E-5	Failed
Row: 22	-2.93751	-2.93737	-2.87498	-2.87470	0.0002	0.0002	3.506E-5	Failed
Row: 23	-0.00005	0.00018	-2.87494	-2.87471	0.0002	0.0002	3.506E-5	Failed
Row: 24	2.93737	2.93770	-2.87491	-2.87468	0.0002	0.0002	3.506E-5	Failed
Row: 25	5.87483	5.87510	-2.87497	-2.87468	0.0002	0.0002	3.506E-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	-5.87497	2.87499	2.87498	0.0002	0.0002	3.506E-5	Passed
Row: 2	-2.93747	-2.93747	2.87498	2.87498	0.0002	0.0002	3.506E-5	Passed
Row: 3	-0.00003	-0.00002	2.87500	2.87498	0.0002	0.0002	3.506E-5	Passed
Row: 4	2.93735	2.93733	2.87500	2.87497	0.0002	0.0002	3.506E-5	Passed
Row: 5	5.87487	5.87486	2.87496	2.87494	0.0002	0.0002	3.506E-5	Passed
Row: 6	5.87490	5.87490	1.43746	1.43745	0.0002	0.0002	3.506E-5	Passed
Row: 7	2.93742	2.93741	1.43750	1.43748	0.0002	0.0002	3.506E-5	Passed
Row: 8	-0.00006	-0.00006	1.43748	1.43750	0.0002	0.0002	3.506E-5	Passed
Row: 9	-2.93746	-2.93745	1.43746	1.43747	0.0002	0.0002	3.506E-5	Passed
Row: 10	-5.87499	-5.87501	1.43748	1.43749	0.0002	0.0002	3.506E-5	Passed
Row: 11	-5.87494	-5.87495	-0.00002	-0.00001	0.0002	0.0002	3.506E-5	Passed
Row: 12	-2.93745	-2.93745	-0.00004	-0.00002	0.0002	0.0002	3.506E-5	Passed
Row: 13	0.00000	0.00000	0.00000	0.00000	0.0002	0.0002	3.506E-5	Passed
Row: 14	2.93742	2.93740	0.00005	0.00005	0.0002	0.0002	3.506E-5	Passed
Row: 15	5.87489	5.87487	-0.00002	-0.00001	0.0002	0.0002	3.506E-5	Passed
Row: 16	5.87495	5.87494	-1.43751	-1.43749	0.0002	0.0002	3.506E-5	Passed
Row: 17	2.93747	2.93746	-1.43745	-1.43747	0.0002	0.0002	3.506E-5	Passed
Row: 18	0.00006	0.00003	-1.43755	-1.43756	0.0002	0.0002	3.506E-5	Passed
Row: 19	-2.93740	-2.93743	-1.43751	-1.43752	0.0002	0.0002	3.506E-5	Passed
Row: 20	-5.87496	-5.87497	-1.43751	-1.43752	0.0002	0.0002	3.506E-5	Passed
Row: 21	-5.87499	-5.87499	-2.87496	-2.87495	0.0002	0.0002	3.506E-5	Passed
Row: 22	-2.93751	-2.93749	-2.87498	-2.87495	0.0002	0.0002	3.506E-5	Passed
Row: 23	-0.00005	-0.00006	-2.87494	-2.87493	0.0002	0.0002	3.506E-5	Passed
Row: 24	2.93737	2.93737	-2.87491	-2.87491	0.0002	0.0002	3.506E-5	Passed
Row: 25	5.87483	5.87478	-2.87497	-2.87498	0.0002	0.0002	3.506E-5	Passed

Description	Nominal	Tolerance -	Tolerance +	As Found	As Left	Units	Result
Parfocalization	0.0	-0.01	0.01	-0.0055	-0.0055	in	Passed
Coaxial Alignment X Axis	0.0	-0.0005	0.0005	-0.000011	-0.000011	in	Passed
Coaxial Alignment Y Axis	0.0	-0.0005	0.0005	0.00002	0.00002	in	Passed
Rotational Alignment	0.0	-0.0002	0.0002	-0.000087	-0.000087	in	Passed

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