

INSPECTION REPORT

Customer:

IAA

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Ref.: WS-PVC5901-A	Project: SLICER MAAT	File nb: 24906
Date: 27 Sep. 2024	Title: Inspection before coating	Order n: -
Project manager: LAPERE, M. Vincent	Piece: MAAT mirror Reference: 23160-112-F310 SN: 1	

Applicable documents. : (drawing, documents...) Indicate the issue	Drawing n° 23160-112-F310 - A
Distribution list: Files, Customer	Original: QA

Inspection before coating

Parameter	Requirement	Value	Compliance	Comment
Material	Fused Silica	Fused Silica	Yes	-
Length (mm)	42 +/-0.5	42.04	C	
Width (mm)	38 +/-0.5	38.07	C	
Thickness (mm)	20 +/-0.5	20.45	C	
Tangential Radius (along length)	89.612 mm +/-1%	89.54	C	
Sagittal Radius (along width)	86.237 mm +/-1%	86.36	C	
Wedge along Length	< 3arcmin (35µm over 40mm)	0.69 arcmin	C	
Wedge along width	< 3arcmin (35µm over 40mm)	1.24 arcmin	C	
Clear aperture	20x20 centered	> 20x20 centered	C	
Shape error over CA	80nm RMS (Goal 40nm RMS)	56.6 nm RMS	C	
Aspect	60/40 (Goal 20/10)	Noting to report	C	
Roughness	3nm RMS (Goal 1.5nm RMS)	0.68 nm RMS	C	

Control Result		Statement		
Compliant:	1	<input type="checkbox"/> under restriction	Accepted:	1
Non-compliant:	0	Request for waiver ref.:	Refused:	0
Observation:				
	Inspector	Project Manager	Quality Manager	
Date and Signature	 Signature récupérable	 Signature récupérable	 Signature récupérable	
	X Aurélie Monier	X Vincent LAPERE	X Richard Holowczak	
	Inspector Signé par : amonier	Project Manager Signé par : vlapere	Quality Signé par : Holowczak Richard	

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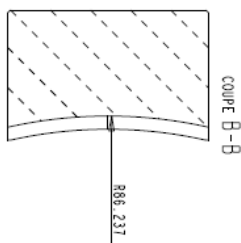
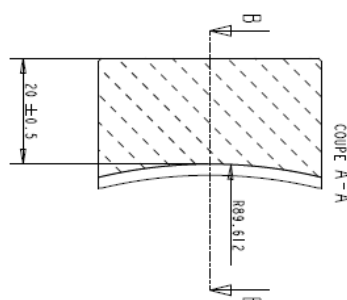
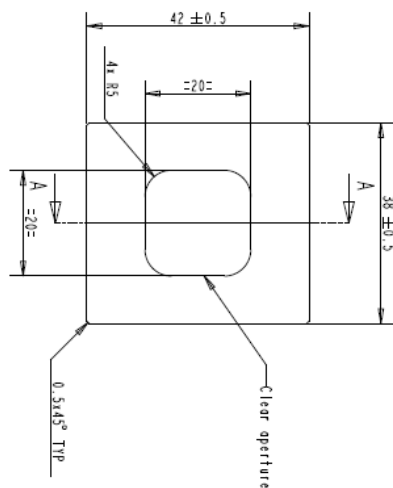
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Optic SURFACE	MATERIAL
Rangential : R89.612±1% Sagittal : R86.237±1%	GLASS : Fused Silica (HPF7980 or equivalent)
Shape error <80nm RMS Scratch and dig : 60/40 Roughness : <3nmRMS COATING : None	

Tore centration with respect to external flat surfaces < 3 arcmin in both axis

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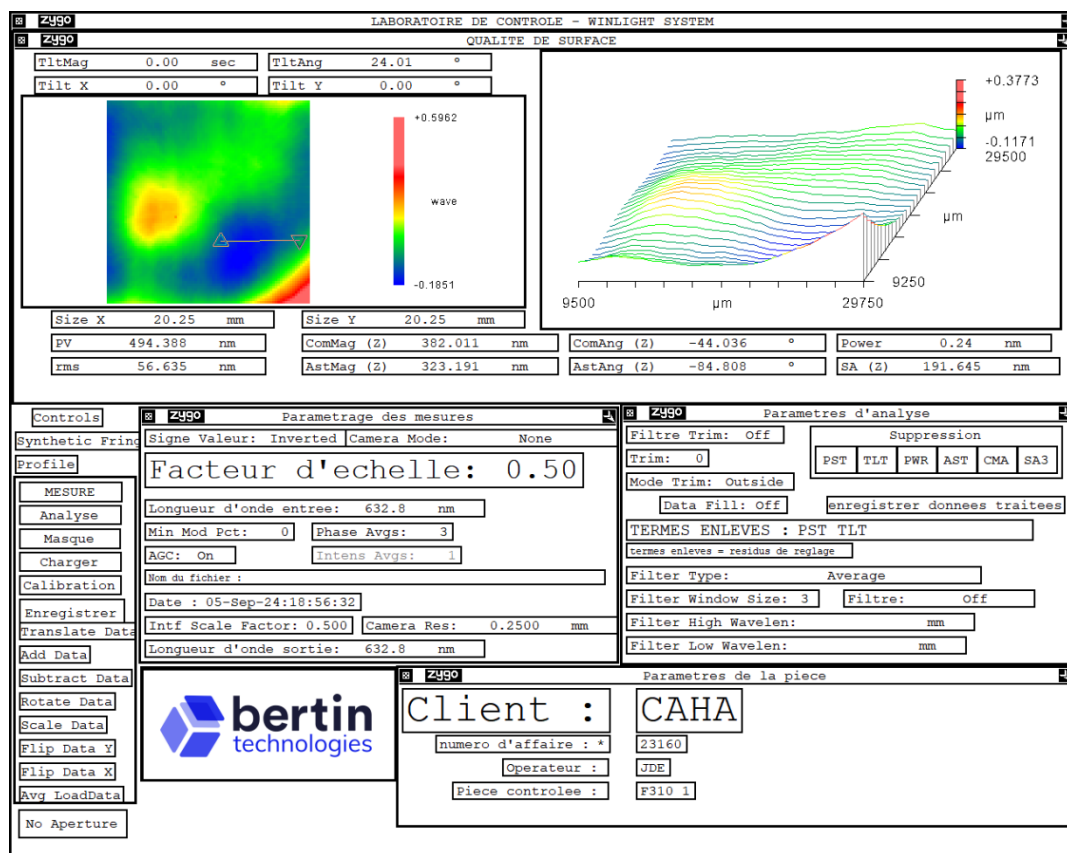
Reimaging mirror 10



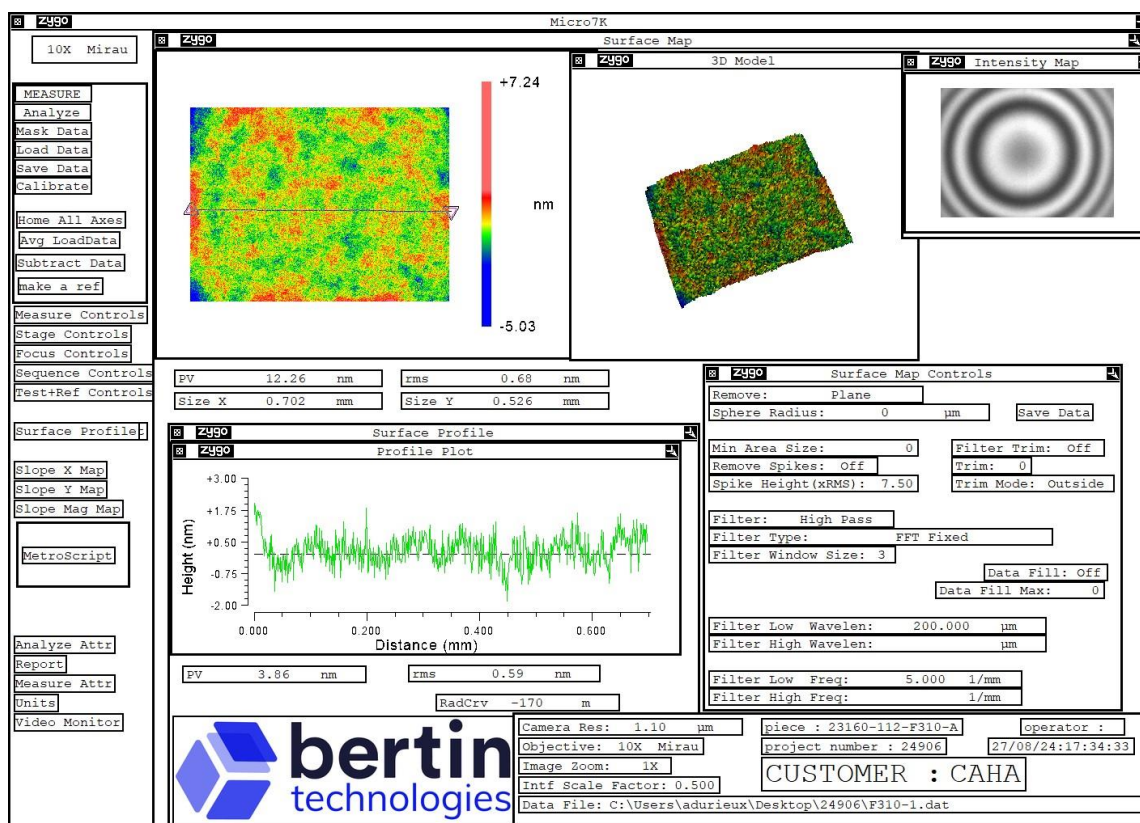
A3

2380-112-F30 - A

Mirror drawing



Surface Front Error



Roughness

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Project Name: SLICER MAAT

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List of measuring tools:

Instrument n°	Instrument designation	Accuracy	Calibration validity date	Reference of the calibration report	Measurement tool used on
WX-APO052	Pied à coulisse 150 mm	$\pm 0,01$ mm	25/04/2025	<u>WS-PVE425-A</u>	22/08/2024
WO-APO067	Unité d'affichage + Palpeur Sylvac	Er. Ind.: $3\mu\text{m}$ Er. Rep.: $1\mu\text{m}$	22/10/2024	<u>WS-PVE378-A</u>	22/08/2024
WS-APO027	Nanomefos	Voir PVE	25/10/2024	<u>WS-PVE428-A</u>	05/09/2024
WX-APO001	Rugosimètre 7300 - Zygo NewView	± 0.09 Å RMS	27/03/2025	<u>WS-PVE419-A</u>	27/08/2024
BT-APO002	Stylo optique CHR Mini OEM + sonde -2	$\pm 0,5$ mm	24/02/2031	<u>WS-PVE464-A</u>	26/08/2024