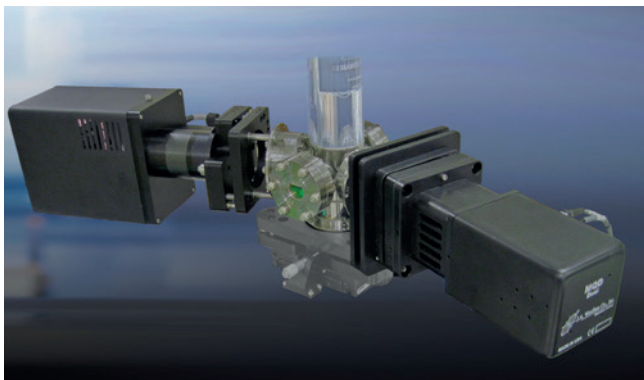


In-situ M-2000

Spectral ranges		
Model	Spectral range	Number of wavelengths
V	370nm to 1000nm	390
X	245nm to 1000nm	470
X-210	210nm to 1000nm	490
D*	193nm to 1000nm	500
"I" - NIR extension**	Up to 1690nm	Additional 200 wavelengths
*) recommended in-situ models: V, VI, X, XI, X-210, XI-210 due to high light density. D, DI still fine for small chambers with short beam path		
**) NIR extension available for all models. Possible to upgrade later in the field		

In-situ package consists of:

- General ellipsometer, including:
 - Input unit with lamp housing, and rotating compensator
 - Receiver unit with analyzer
 - M-2000 control box (19" rack mount box)
 - EC-400 control box (19" rack mount box)
- Computer and monitor
- CompleteEASE data acquisition and analysis software
- 1 set (2 pieces) flat fused silica UHV windows, 2.75" (DN40CF) flange
- 1 set of in-situ mounts and stands to attach the in-situ tilt stages
- 1 set of in-situ tilt stages
- 1 piece of alignment jig
- Single angle ex-situ test base
- 1 set of cables and optical fiber(s), length 3m (standard); longer cables/fibers on request

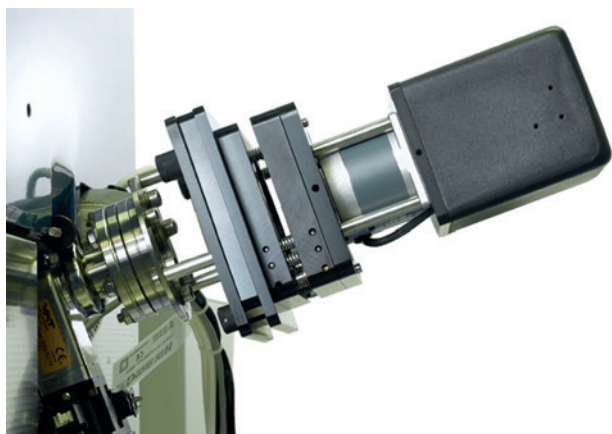


In-situ M-2000DI mounted to a small chamber

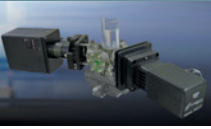


Flat fused silica UHV window with in-situ mount attached to the chamber port	
In-situ mounts with stands and in-situ tilt stages left for input unit, right for receiver unit	
Alignment jig, front and backside view	
Input (light source) unit (pictures from left to right refer to V/ VI, D/DI, X/ XI versions)	
Receiver unit (picture left refers to D, X, X-210 or V, and picture right refers to DI, XI, XI-210 or VI version)	
M-2000 control box (19" rack mount) Front and rear view	
EC-400 control box (19" rack mount) Front and rear view	
Single angle ex-situ test base	

In-situ M-2000

Upgrade options	
Ex-situ angle bases	
Automated ESM angle base	
Automated angle base (vertical)	



M-2000 In-situ detector on an atomic layer deposition chamber

Upgrade options require automated angle base (horizontal)	
Ex-situ angle bases	
Automated 100 mm XY mapping	
Automated 200 mm XY mapping	
Automated 300 mm XY mapping	
Manual or automated sample rotator	
Focusing option	
Several liquid cells	
Heating stages (RT to 300 °C or -190 °C to 600 °C)	