

In-situ RC2

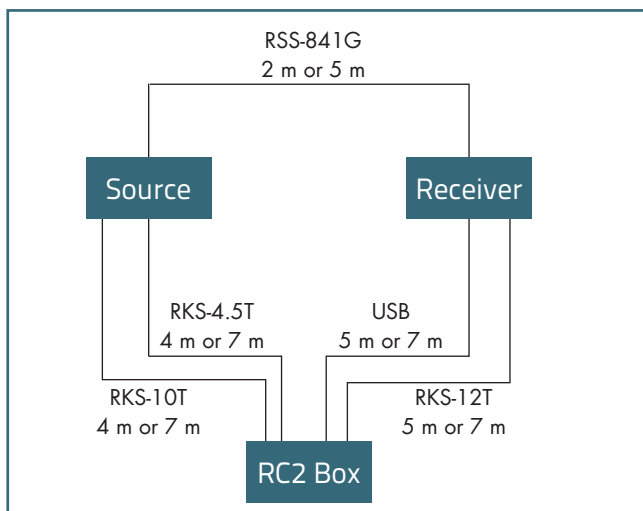
| Spectral ranges | | |
|-----------------------|-------------------|-----------------------------------|
| Model | Spectral range | Number of wavelengths |
| U | 245 nm to 1000 nm | ~750 |
| X-210 | 210 nm to 1000 nm | ~790 |
| D | 193 nm to 1000 nm | ~800 |
| „I“ – NIR extension | Up to 1690 nm | Additional ~275 |
| „I+“ – XNIR extension | Up to 2500 nm | Additional ~285 (only with X-210) |

In-situ package consists of:

- General ellipsometer, including:
 - Input unit with lamp housing, and rotating compensator
 - Receiver unit with second rotating compensator
 - RC2 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
- Standard:
- Source – receiver: 2 m
 - RC2 box – source: 4 m
 - RC2 box – receiver: 5 m
- Optional:





- Source – receiver: 5 m
- RC2 box – source: 7 m
- RC2 box – receiver: 7 m







| | |
|---|--|
| 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 D/DI, X-210/XI-210 versions) | |
| Receiver unit | |
| RC2 control box (19" rack mount) | |
| Single angle ex-situ test base | |

In-situ RC2

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



RC2 mounted to 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) |  |