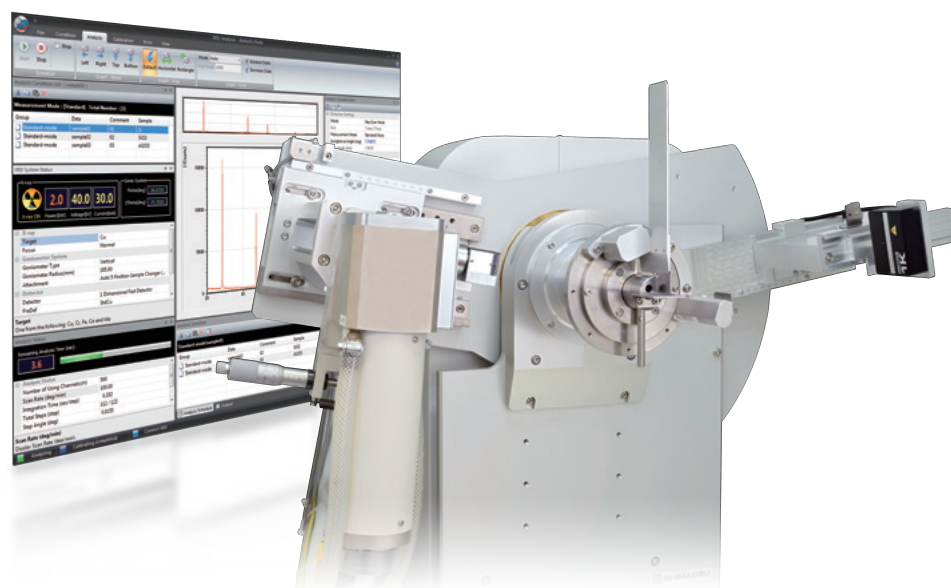


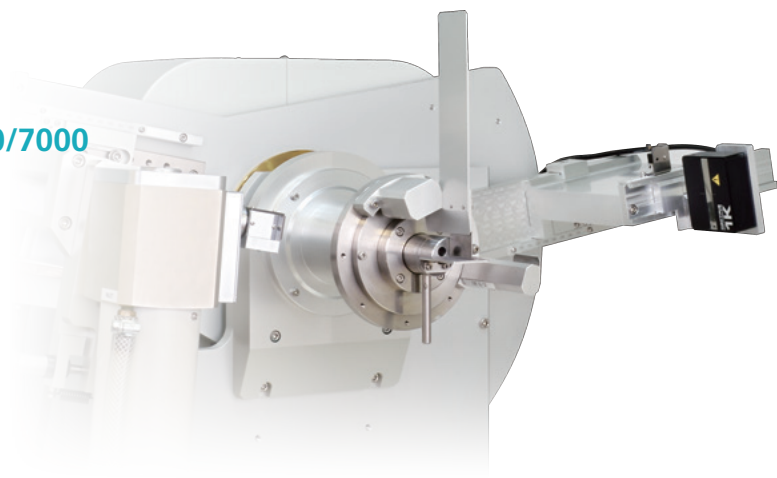
Wide-Range High-Speed Detector for XRD-6100/7000

OneSight



Shimadzu X-ray Diffractometers for XRD-6100/7000

OneSight™ Wide-Range High-Speed Detector



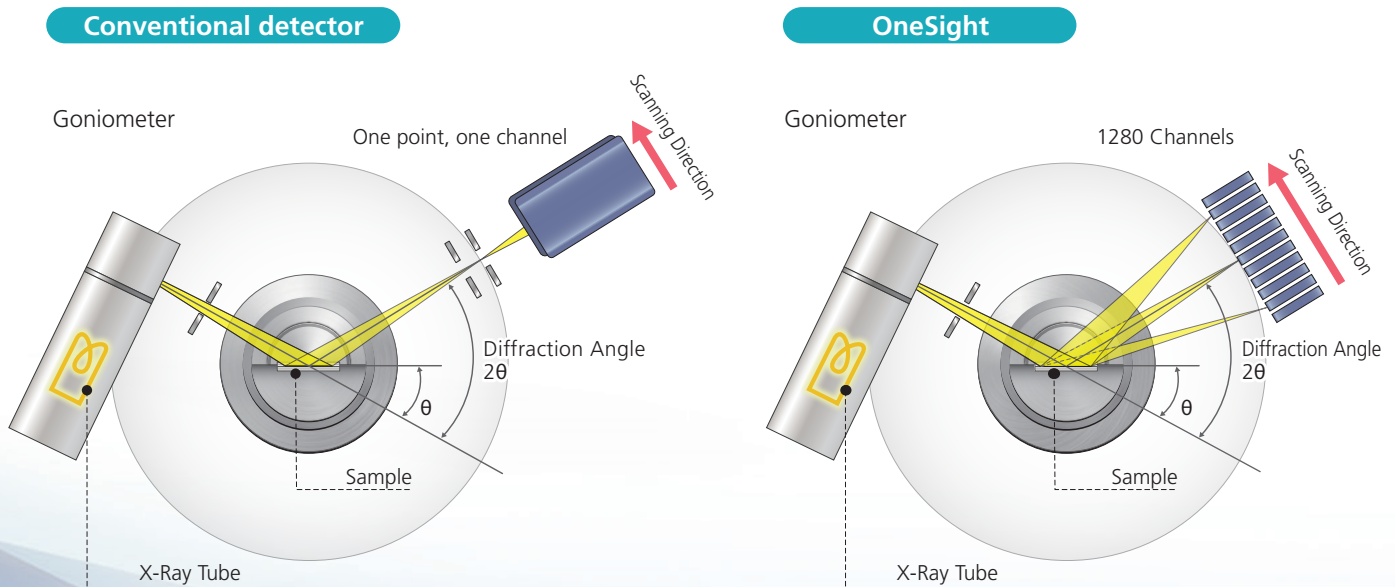
Wide-Range High-Speed Detector Achieves High-Speed, High-Sensitivity Performance

The OneSight is a wide-range high-speed detector consisting of a number of semiconductor devices. It is able to achieve intensity more than 100 times higher than a scintillation detector. The OneSight can also perform wide-angle range measurement without a scanning goniometer for significantly higher throughput. It can be easily mounted on existing XRD-6100/7000 units installed at customers' sites*.

*It is necessary to set up the OneSight parameters during the initial installation. It may be necessary to update the software and hardware. For more details, please contact your representative.

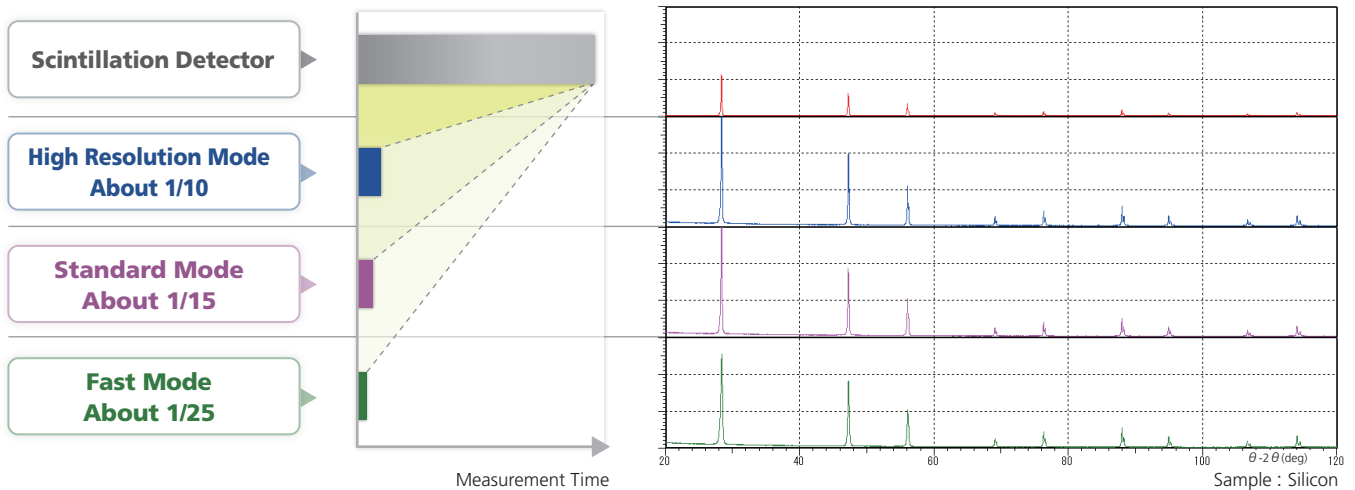
■ Wide-Range Array Detector with 1280 Channels

A conventional scintillation detector has only one channel at one point whereas the OneSight has 1280 channels on a wide-range array. This enables diffraction profile at wide range angle to be captured at once.



■ High-Speed Quantitative Analysis Using Three Types of Measurement Modes

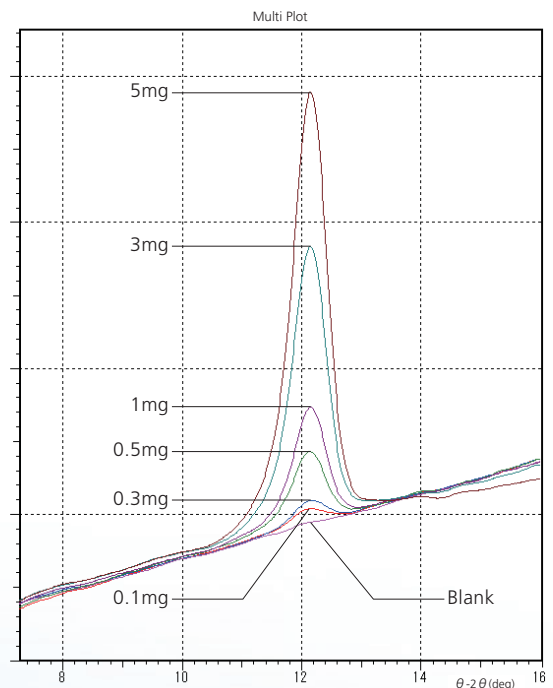
The OneSight features three types of measurement modes: High Resolution, Standard, and Fast. It enables measurements speeds 10 times faster (High resolution), 15 times faster (Standard), and 25 times faster (Fast) than those attained with a scintillation detector.



■ ONE SHOT Mode Achieves Simultaneous Measurement of Diffraction Profile at a Wide Range Angle

The OneSight can perform a simultaneous diffraction profile measurement over a range of more than 10 deg. with a fixed-position goniometer. This is useful in quantitative analysis using a specified diffraction peak.

Standard Sample Data of Asbestos (Chrysotile)
(30 sec. measurement time per sample)



State-of-the-art User Interface Enhances Operational Efficiency

The measurement software for the OneSight adopts a new design. The analytical profile and schedule display are located in the center, the analytical conditions list and machine status display are indicated on the

left, and the detailed analysis conditions display is shown on the right. This new design makes it easy for a user to understand the measurement status at a glance. It is also possible to change the arrangement.

Loading and editing window for analysis condition file

Perform loading, editing, and creating of analytical conditions.

Analysis profile display window

Displays the analysis profile, which can be enlarged or reduced as preferred.

Detailed analysis condition display / setting window

Allows users to edit the detailed analysis conditions.

Machine status display window

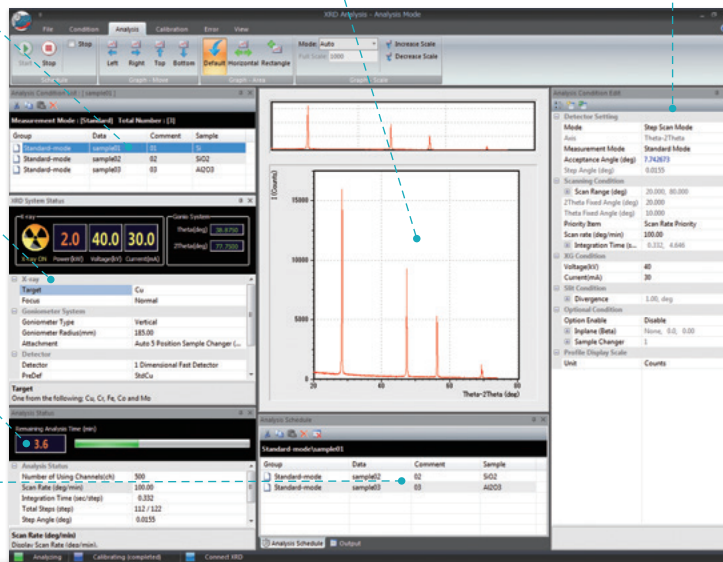
Displays the instrument's status.

Analytical progress status window

Displays the status of the OneSight as well as the analytical progress. The user can easily check the status from the analysis progress bar.

Analysis condition registration window

Displays the registered analysis conditions file. Users can verify and change an analysis schedule based on this file.



Main Specifications OneSight Wide-Range High-Speed Detector (FD-1002 1D High-Speed Detector P/N 215-24320-93)

Number of Channels	Active Area	Dimensions
1280	64 x 8 mm	W70 x D22 x H62 mm

OneSight is a trademark of Shimadzu Corporation.



Shimadzu Corporation
www.shimadzu.com/an/

For Research Use Only. Not for use in diagnostic procedures.

This publication may contain references to products that are not available in your country. Please contact us to check the availability of these products in your country.

Company names, products/service names and logos used in this publication are trademarks and trade names of Shimadzu Corporation, its subsidiaries or its affiliates, whether or not they are used with trademark symbol "TM" or "®". Third-party trademarks and trade names may be used in this publication to refer to either the entities or their products/services, whether or not they are used with trademark symbol "TM" or "®". Shimadzu disclaims any proprietary interest in trademarks and trade names other than its own.

The contents of this publication are provided to you "as is" without warranty of any kind, and are subject to change without notice. Shimadzu does not assume any responsibility or liability for any damage, whether direct or indirect, relating to the use of this publication.