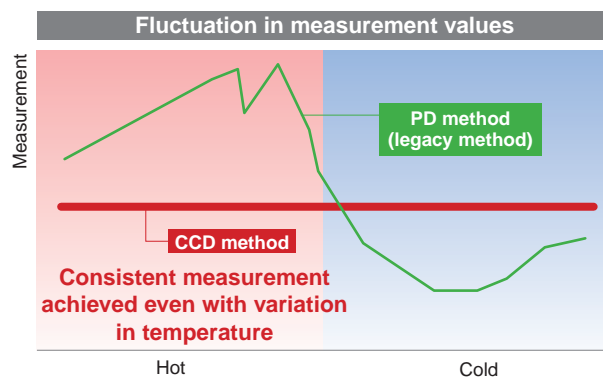


Leading Technology and CCD Processing Algorithm That Support Stable Measurements

Thoroughly eliminating the effect of the ambient temperature

It is important to eliminate the influence of temperature to ensure the accuracy of a measurement. However, the temperature in the field environment changes according to the time and the season. With the ZX-GT, which employs CCD method, the influence on the resolution from temperature changes is greatly reduced leading to an error rate as low as 0.01% (2.8 micro-meters *).

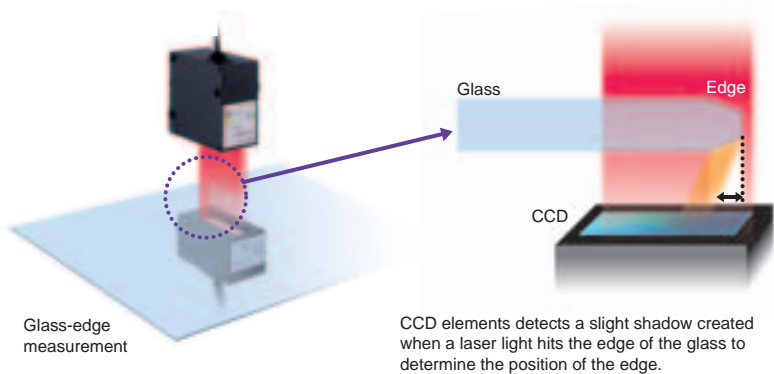
* This is a representative case. Please see the specifications table for the details of the relevant conditions.



Transparent object detection possible **Integrated MRC filter**

The detection of edges has been a problem for transparent objects with traditional transmission type sensors. However, ZX-GT adopts OMRON's unique MRC filter * (Mirror Reflection Cut Filter) and CCD methodology. It can accurately detect work that reflects light such as mirror-finished surface or work that allows light to pass through such as glass (including coated glass).

* MRC Filter: OMRON's proprietary optical filter.



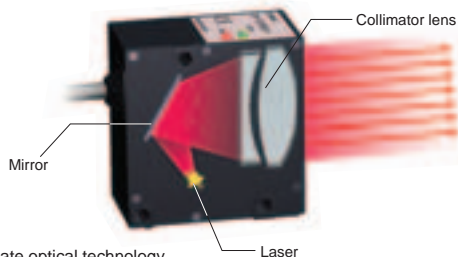
Even effective with mirror finished surfaces



Collimate optical technology

Super parallel-beam

With OMRON's unique collimate optical technology *, the closest to ideal parallel beam is created. Errors are controlled in the measurement area and the longest and most accurate measurement is achieved.

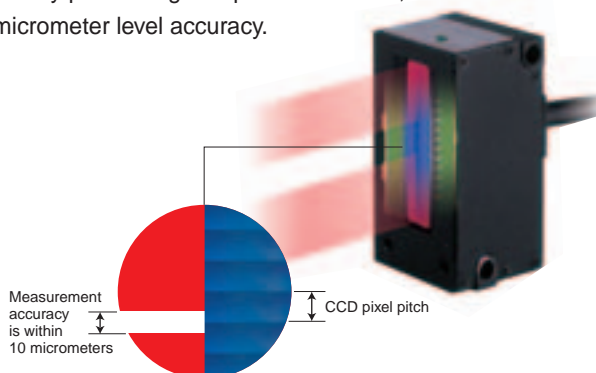


* Collimate optical technology
Collimate optical technology allows laser lights to stay parallel using mirror reflection and lens refraction effects, to take advantage of the laser light's high-level of directivity.

Sub-pixel processing

CCD processing algorithm

CCD detects the shadow made from measurement objects and by performing sub-pixel calculation, it achieves 10 micrometer level accuracy.



New Concept “Smart Recipe”

Using the PC software 'Smart-monitor GT', set up is easy with simply clicking the icons. This is OMRON's Smart Recipe methodology.

Interface Unit
By connecting it to the controller, RS-232C communication and binary output is possible.

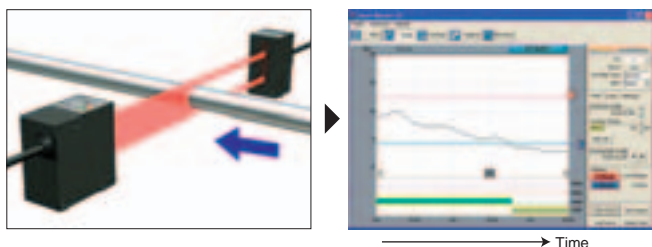
Controller

Easy to set-up
Different features are organized by tabs, to allow the user to understand and change the settings easily. Measurement conditions can be saved on PCs.

Advanced support for data collection and analysis

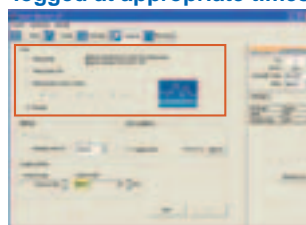
The measurement data is gathered in the PCs in real time so it is easy to ascertain and analyse the current conditions at any time.

●Grasp the data trend and prevent defective parts



The trend of the measurement data and sudden change can be checked in the time-dependent graph, so that the appropriate action can be taken before defective goods are produced.

●Measurement result can be logged at appropriate times



The logged data can be sent to Excel. It is useful for traceability management and for preparing quality assurance reports.