

An energy meter that makes wide range measurements of high-speed sampling possible.  
DC~25MHz 65,536-step

# An Energy meter

*Mounted with a time product measurement function!*

Optimal for dynamic optical power meters.

Dynamic Waveform Analyzer

Waveform analysis unit DWA-30

100MHz  
Sampling

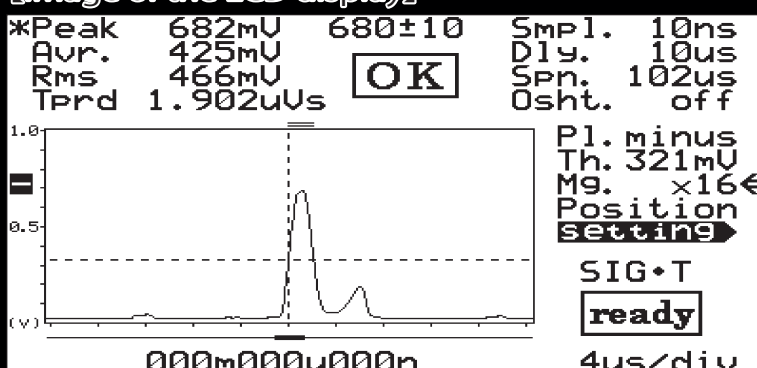


Total Solution Laboratory



4 types of sampling times from 10ns to 10us.  
6 measurement modes such as an external trigger and a signal trigger.  
Determination function and external output for measurement results.  
Ultracompact and waveform analyses of voltage inputs.

[Image of the LCD display]



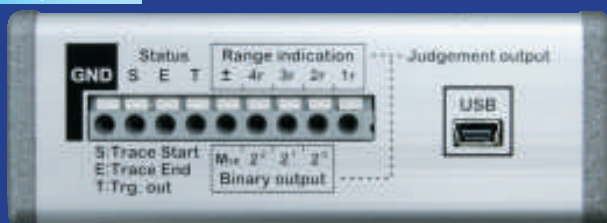
With DWA-30 designated case



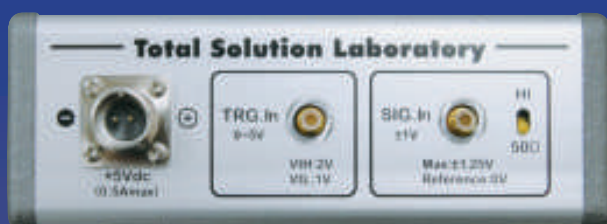
# An energy meter that makes wide range measurements of high-speed sampling possible. **DWA-30**

DC~25MHz 65,536-step

## Front panel



## Rear panel



## DWA-30 specifications

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| AD conversions              | 100MHz • 12bit (0.5mV resolution)                                                                                             |
| Sampling                    | 10ns / 100ns / 1μs / 10μs (4 choices)                                                                                         |
| Measurement results display | Peak value : 1mV to 1000mV<br>Average value: 1mV to 1000mV<br>RMS value : 1mV to 1000mV<br>Time product value: 5pVs to 655mVs |
| Input signals               | 0±1V (full scale)                                                                                                             |
| Input impedance             | 50Ω/100kΩ (rear panel switching type)                                                                                         |
| Measured threshold settings | 0 to 999mV (1mV step)                                                                                                         |
| External trigger            | 0 to 5V (Vth ≒ 1.65V)                                                                                                         |
| Edge selection              | Rising/falling                                                                                                                |
| Input impedance             | >200kΩ                                                                                                                        |
| Trigger delay               | 0 to 99.99ms (10μs step)                                                                                                      |
| Terminal output voltage     | H>3V, L<0.3V (±4mA or below)                                                                                                  |
| Input connector             | SMB                                                                                                                           |
| Power voltage/current       | DC5V, 0.5Amax                                                                                                                 |
| Body size                   | H36.5, W100, D100.5<br>(excluding the connector, rubber foot, etc.)                                                           |
| Body weight                 | About 350g                                                                                                                    |

## Main functions/features

- Six measurement modes can be selected.
 

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| Manual tracing         | Measured during each manual operation                                               |
| Constant tracing       | Measured during each constant period of time                                        |
| Single trigger         | Measured only once with the external trigger as the starting point.                 |
| Normal trigger         | Measured with the external trigger as the starting point and this process repeated. |
| Signal trigger         | Measurements started with the input signal itself.                                  |
| Signal trigger(repeat) | The input signal itself measured and this process repeated.                         |
- Measurements of numeric values consist of four types of peak values, average values, RMS values, and time product values.
- Numeric values are judged during each measurement and all measurement results are displayed at the same time.
- Measurement results are also outputted as detailed information in the terminal block of the front panel. Automatic control systems for those such as power controls can be built with use of this output.
- The measurement results are instantly displayed in the LCD screen (trace width of 65,536 samples)
- The ranges (spans) of actual measurements can be set and the occurrence of errors due to measurements of unnecessary regions can be prevented.
- One-shot measurements within the measurement range in a specified time as well as those for capturing only waveforms that are measured at first.
- USB communication function (settings for all parameters can be made with general terminal communications software)

- 1 power supply plug (R03-PB2F)
- Utility disc (Operation manual, simple apps, etc.)

## Accessories

## Other functions

- Judgment reference values and judgment ranges can each be set by measurement type.
- The bit format of the judgment result output in the front panel can be selected.

2's complement  
Offset Binary  
Sign + Absolute  
Range Indication

- The specifications and appearance of the product may change due to improvements.
- Not available in units of substrates.
- Connection cables are not included.
- We offer support for customizations with displays, OEM, etc. Please contact us for details.

## Usage examples

This product can be used as a dynamic optical power meter by pairing it with our products [photodiode amp LTA series products] or products by Graviton Inc. [high-sensitivity O/E converter SPS series products]



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