Sometimes an Oscilloscope, Sometimes a Chart Recorder! The DL750P is equipped with a fully functional scope and chart recorder.

**Chart Recorder Function**

Access Settings Directly with the "RECODER' Key

- **Set chart speed, chart length, and other settings in menu just like a chart recorder**
- **Automatic recording to memory**
  During real-time printing, the DL750P also automatically records the waveforms to memory in the background. Up to approximately 10 meters (1000 div) can be saved.
- **"Reprint" function**
  Once measurement completed, you can change the print format, length, or other parameters and print the data again. The Reprint function means never worrying about printer failure or running out of paper.

**The DL750P enables you to...**

- **Check results immediately while on site**
  High speed printer outputs an A4 size sheet in approximately 15 seconds (20 mm/sec)
- **View multi-channel data in high resolution**
  The A4 size printer records all channels together, with 1600-dot vertical resolution.
- **Print only what you need**
  Using the DL750's GigaZoom function, you can instantly print out only the portions of waveforms that you need, thus saving paper.
- **Record for long periods of time with high reliability**
  Waveforms can be printed out continuously in real time while the electronic data is also automatically saved (up to 1000 div or 10 meters).

http://www.yokogawa.com/tm/    Visit our website to sign up for email updates.

Bulletin 7012-30E
**DL750P Printout Example (A4 Size, High Resolution)**

200 mm (1600 dots)

Voltage axis: A4 size (200 mm) = 1600 dots
Time axis: A4 size (300 mm) = 3000 dots

**GigaZoom function + A4 Printer**

The GigaZoomEngine instantly displays up to 1 GW of data and zoom windows at the same time.

Print any length of the zoomed waveforms in high resolution

"Zoom Print" function

Prints the zoom window

Press the key

**Prints XY Plots in High Resolution**

- Includes dedicated mode for emulating an XY recorder (XY Recorder mode)
- Prints A4 size plots (200 mm x 200 mm) in high resolution
- Prints up to 4 pairs of waveforms at the same time
- Replaces XY recorders

**Universal Modules (for Simultaneous Release with the DL750P*)**

- Multiple inputs of general-use voltage (100 kS/s, 16-bit) and temperature (thermocouple)
  
  Two isolated inputs (voltage: 100 kS/s, 16-bit; temperature: 500 S/s)
  
  Two types of modules available: with or without AAF (anti-aliasing filter)

- **Key Specifications**
  
  Voltage range: 20 V/div-5 mV/div (for 10 div display, in steps of 1-2-5)
  
  Temperature: Thermocouple
  
  
  Filters: AUTO (AAF), 4 kHz, 400 Hz, 40 Hz

*The DL750 will support these new modules via a firmware upgrade which will be made available by the 3rd quarter 2005.
Main Unit Specifications

Basic Specifications

- **Input**
  - Type: Plug-in module (each unit has a built-in A/D converter)
  - Number of Slots: 8 (up to 16 channels)

- **Maximum sampling rate**
  - 10 MS/s (701250/701255), 1/2 MS/s (701251)
  - 2.5 MS/s (701251), 500 MS/s (701251)

- **Logic inputs**
  - Max. record/length:
    - Standard: 2.5 MS/s, 50 MS total
    - M2: 25 MS/s, 500 MS total

- **Time axis accuracy**
  - Max. 10000
  - 1000 MS on 1000 MS/div.

- **Time axis setting range**
  - 500 ns-30 sec/div, 1 min-30 min/div, 1 h-30 h/div, 1 day-30 days/div (up to 30 days)

- **Watchdog**
  - Standard: Normal, Average, Bow average

- **Triggers**
  - Modes: AUTO, AUTO LEVEL, NORMAL, SINGLE, SINGLE (in background)
  - Simple trigger source: CH1 to CH6, CH7 to CH12, CH17 to CH22, 22 ONLY, 21, 22, 21, 22
  - Enhanced trigger source: A-B, A delay, B, B +, B -

- **Display**
  - Display:
    - 10.4-inch color TFT liquid crystal display (SVGA 800 x 600 dots)
  - Display modes:
    - Split, Single, Dual, Triad, Quad, Octad, Hexadecimal (DL750P)
  - Memory length:
    - 2.5 MW/CH fixed, max. 1000 div (depends on chart speed)
  - Maximum printing speed:
    - 20 mm/sec (500 ms/div)

- **Printer (DL750P)**
  - Print format:
    - Vertical: Same format as in real-time mode
  - Print directions:
    - Standard or rotated 180 degrees
  - Print methods:
    - Thermal line-dot printing
  - Paper:
    - A4 size roll (210 mm (W), 297 mm (L))
  - Media drives:
    - HDD 30 GB hard drive with (C3) Option
    - DVD/CD-ROM drive with (C3) Option
    - DD/SCSI drive with (C3) Option
  - Modules:
    - Approximately 300 g per module (average)

- **User-defined math function (with /G2 option)**
  - Operations:
    - ABS, SQ, LOG, LOGE, NDLG, SIN, COS, TAN, ATAN, PHI, ODF, ODFT, BTN, BNZ, TFB, FZ, PZ, FZ, PW, PHL, PHLW, PWLW, PWN, WPX
  - FFTs:
    - Rectangular, Hanning, Flattop, Exponential

- **Waveform Measurement Functions**
  - **Numerical monitoring functions**
    - Display numerically displays the waveform level (instantaneous) for approximately 1 sec interval.
  - **Currents**
    - 0/5, 0.1/5, 2.5/5, 50 mV, 0.1/50, 2.5/50, 50 mV (mV/div)
    - 100 mV, 0.1/100, 2.5/100, 50 mV (mV/div)

- **FFT types**
  - FFT window:
    - FFT (furthest) 10 kHz, 20 kHz, 50 kHz, 100 kHz, 200 kHz, 500 kHz

- **Reference**
  - Rectangular, Hanning, Flattop, Exponential

For updated information on the DL750 series, or to download the latest firmware: http://www.yokogawa.com/tm/DL750/
**Universal (Voltage/Temperature) Modules (701261/701262)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>701261</td>
<td>DL750 main unit (16 isolated channels + 16-bit logic)</td>
</tr>
<tr>
<td>701260</td>
<td>DL750 main unit (16 isolated channels + 16-bit logic)</td>
</tr>
</tbody>
</table>

**Input Channels**

- Voltage or temperature (thermocouple)

**Input Couplings**

- TC (thermocouple), DC, AC, GND

**Input Impedance**

- Unbalanced

**Data Updating Rate**

- Temperature: 500 Hz

**Input Range**

- Voltage (1:1) 5 mV/div to 20 V/div (10 div display range 10 div)

**A/D Conversion Resolution**

- Voltage: 16 bits (2400 LSB/div); temperature: 0.1 °C

**Frequency Range**

- Voltage: DC to 40 kHz

**Default Help Language**

- Italian online help

**External Dimensions**

(Units: mm)

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>285</td>
<td>267</td>
<td>70</td>
</tr>
</tbody>
</table>

**Plug-in Module Model Numbers**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>701202</td>
<td>High-speed 10 M/S 12-bit isolation module (2 CH)</td>
</tr>
<tr>
<td>701204</td>
<td>High-speed 10 M/S 12-bit isolation module (2 CH)</td>
</tr>
<tr>
<td>701203</td>
<td>High-speed 10 M/S 12-bit isolation module (2 CH)</td>
</tr>
<tr>
<td>701265</td>
<td>High-speed 10 M/S 12-bit isolation module (2 CH)</td>
</tr>
<tr>
<td>701205</td>
<td>High-speed 10 M/S 12-bit isolation module (2 CH)</td>
</tr>
<tr>
<td>701206</td>
<td>High-speed 10 M/S 12-bit isolation module (2 CH)</td>
</tr>
<tr>
<td>701266</td>
<td>High-speed 10 M/S 12-bit isolation module (2 CH)</td>
</tr>
<tr>
<td>701221</td>
<td>High-speed 10 M/S 12-bit isolation module (2 CH)</td>
</tr>
<tr>
<td>701222</td>
<td>High-speed 10 M/S 12-bit isolation module (2 CH)</td>
</tr>
</tbody>
</table>

**Standard Accessories**

- Power cable
- User’s manuals (one set)
- Transparent front cover
- Printer roll paper
- Printer roll paper
- Cover panel (for blank module slots)
- Rubber Roller (for back panel)
- Soft case (for storage accessories)

**Zip**

- Registered trademark of Iomega Corporation in the United States and/or other countries.

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