# cl-pdf-parser example

| Available for 6050A, 6050A, 6100A, 6200A | |
|---|---|
| **Bandwidth Range** | 350 MHz – 2 GHz |
| **# Analog Channels** | 4 |
| **Analog Sample Rate** | 5 GS/s per Channel (500 MHz) |
| | 10 GS/s max. (6100A and 6200A only) |
| **Analog Memory** | Standard |
| | up to 12 Mpts/Ch |
| **Digital** | Mpts/Ch (with MS-32) |
| **Application Packages** | CAN Bus Trigger and Decode |
| | Power Measurement Analysis |

## MS-32 System Components



**1** Oscilloscope Interface Module
**2** Power Supply
**3** USB 2.0 Cable
**4** 32 Channel Digital Logic Pod
**5** 10.5" Digital Lead Set
**6** Foam Lined Soft
  Accessory Case
  5x Magnifying Glass
  *(not pictured)*

## MS-32 Gripper Probe Set Accessories

**PK400-1 –** Large gripper probe set for 0.1" (2.54 mm) pin pitch, includes 10 probes with color-coded leads

**PK400-2 –** Medium gripper probe set for 0.04" (1 mm) pin pitch, includes 10 probes with color-coded leads

**PK400-3 –** Small gripper probe set for 0.008" (0.2 mm) pin pitch, includes 10 probes with color-coded leads

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# Specifications and Ordering Information

## Specifications

### Digital Channels

| | |
|---|---|
| Number | 32 |
| Memory | 1 Mpts/Ch |
| Probe Inputs | 240 kΩ ‖ 10 pF |
| Threshold Levels | TTL, ECL, CMOS (2.5, 3.3, 5 V), PECL, or User Defined. |
| Sampling Rate | 1 kS/s to 500 MS/s |
| Minimum Input Voltage Range | ±300 mV around the threshold voltage setting |
| Maximum Input Voltage | 30 V |
| Digital Channel Grouping | 4 digital groups can be defined. Each group may use any combination of 32 digital lines. Groups can be displayed as individual lines, or collapsed into a bus view. |
| Triggering | User selectable analog (i.e., std. oscilloscope trigger) or digital trigger |

### Digital Trigger

| | |
|---|---|
| Setup Type | Logic, Logic Bus, or Interval |
| Logic Setup | Up to 32 digital lines, with any combination of 0, 1, or X (don't care). In addition, a Rising Edge, Falling Edge, or Either Edge condition may also be set (Note: multiple edges are OR combined). |
| Logic Bus Setup | Up to 32 digital lines, defined in hexadecimal format |
| Interval | Define a single digital line, the slope, the condition, and the time period in which the second occurrence of that digital line should occur. Available conditions are < or >. |
| Accuracy | ±1 digital sample (based on digital sample rate) |
| Certifications | CE Approved. Conforms to EN61326-1 and EN61010-1, EN |

### Physical Dimensions

| | |
|---|---|
| Pod Dimensions (WLD) | 3.8" x 6.3" x 1.2" (9.6 cm x 16 cm x 3 cm) |
| Pod Weight | 14 oz. (397 g) |
| Complete System Dimensions (WLD) | 12.5" x 8" x 2.5" (32 cm x 25 cm x 6.4 cm) |

## Ordering Information

| | Product Code |
|---|---|
| 32 Digital Channel Oscilloscope Mixed Signal Option for LeCroy WaveSurfer 400 Series* and WaveRunner 6000A Series Oscilloscopes | MS-32 |
| MS-32 with License to use on 2 Oscilloscopes | MS-32-2LIC |
| MS-32 with License to use on 5 Oscilloscopes | MS-32-5LIC |

### Included with Standard Configuration

| |
|---|
| 32 Digital Channel Logic Pod with Power Supply |
| 10.6" (27 cm) Lead Set |
| 6 ft. (1.8 m) USB 2.0 Cable |
| Oscilloscope Interface Module with 5 ft. (1.5 m) Cables |
| Soft Accessory Case |
| Magnifying Glass (5x) |
| Printed Operator's Manual (English) |
| Quick Reference Guide (English) |
| CE Conformance Certificate Contained in Manual |

### Hardware Options and Accessories

| | |
|---|---|
| Large Gripper Probe Set for 0.10" (2.54 mm) Pin Pitch, Includes 10 Probes with Color-coded Leads | PK400-1 |
| Medium Gripper Probe Set for 0.04" (1.0 mm) Pin Pitch, Includes 10 Probes with Color-coded Leads | PK400-2 |
| Small Gripper Probe Set for 0.008" (0.2 mm) Pin Pitch, Includes 10 Probes with Color-coded Leads | PK400-3 |
| 10" Digital Lead Set, 32 Digital Channel Lead Set (for Clock Speeds ≤ 125 MHz) | MS-32-STDLEADS |
| 14" Digital Lead Set, 32 Digital Channel Lead Set (for Clock Speeds < 25 MHz) | MS-32-STDLEADS-L |
| Mictor Connection Cable, 3" long (7.6 cm), 38-pin (for Clock Speeds ≤ 125 MHz) | MS-32-Mictor-S |
| Mictor Connection Cable, 14" long (35.6 cm), 38-pin (for Clock Speeds < 100 MHz) | MS-32-Mictor-L |
| Retrofit GoLogic U36-1M to MS-32 | RK-GOLOGIC-MS-32 |

### Customer Service

LeCroy scopes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years. This warranty includes: Calibration after repair • No charge for return shipping • Long term 7-year support • Upgrade to latest software at no charge

*For WaveSurfer 434 and 454 oscilloscopes

## LeCroy

**1-800-5-LeCroy**
www.lecroy.com

**Local sales offices are located throughout the world.
To find the most convenient one visit www.lecroy.com**

DCMS32_R1
7.5K GC 04/05

cl-pdf: Example 1