LA-Gold-36

PC-Based Logic Analyzer with integrated Pattern Generator

Debugging digital circuits has never been easier!

The LA-Gold-36 is a high performance logic analyzer with an integrated pattern generator. It was designed to be of superior technical quality to ensure measurements of excellent signal integrity. With class-leading specifications, it offers a comprehensive digital debugging environment for the electronics professional.

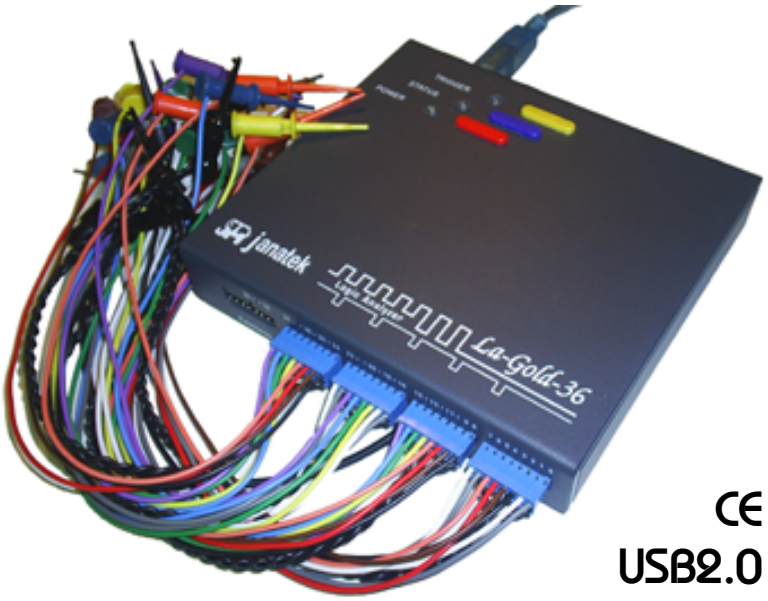
- 32 Channels
with input impedance of 1MΩ||5pF,
±60V maximum input voltage absolute

- Ultra-fast sampling rate
1GHz maximum sampling rate

- **High input bandwidth**
Measure signals in excess of 100MHz

- Deep data buffer
1Meg samples/channel data buffer

- 4 independent variable thresholds
adjustable from -5V to +5V for each group of 8 channels



CE
USB2.0

- On-board pattern generator
The integrated 8-bit Pattern Generator can output data to the unit under test and the user can measure its response with the logic analyzer simultaneously.

- Versatile triggering options
Edge(s), Pattern, Edge AND/THEN/OR Pattern, Glitch Capture, Post Trigger Delay, etc.

- Digital Logger
for measuring slow varying signals

- External clock input
allows up to 50MHz state-captures

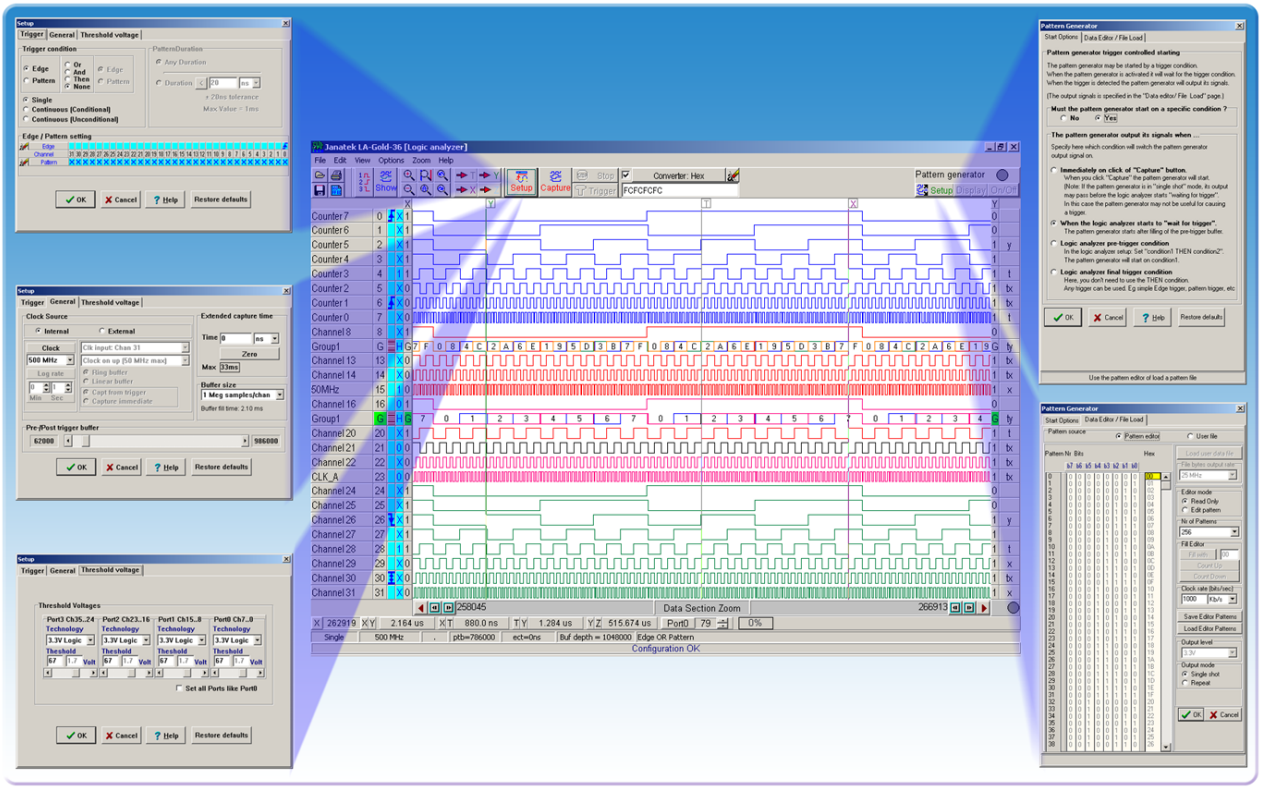
- High Speed USB2 connection to PC
Enables rapid data transfer and display updates

- User-friendly software
Mature software controls both the logic analyzer and pattern generator from a single, intuitive user interface.
Runs on Windows 98/ME/2000/XP...

- Set up and go...
Take meaningful measurements within minutes of receiving the package.
Package includes:
- The LA-Gold-36 instrument
- 32 high quality SMD test clips,
- User's manual,
- Software and documentation on CD,
- External power supply
(not required during normal use),
- Handy carry case

- CE compliant, Pb-Free

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LA-Gold-36 Technical Specifications

Logic Analyzer

Internal sampling rates: 1GHz down to 100Hz

Digital inputs: 32 channels, > 100MHz bandwidth, 1MΩ/5pF, -60V to +60V absolute

Data buffer: 1Meg samples per channel up to 500MHz sampling rate, 4k samples per channel minimum for 1GHz, dependent on no. of channels used

Digital logger: 1 second to 1 hour sampling rates

Threshold voltage: -5V to +5V, four independent variable thresholds (1 for each group of 8 channels)

Extended capture time: Dependant on the sampling rate: At 500MHz: 33ms max…1.25kHz: 1677s

Pre-/post-trigger buffer setting: Relation may be changed in 1000 samples steps

External clock: Synchronized capturing into linear/ring buffer, Linear capture start on trigger or immediately

Trigger conditions

Pattern: `1', `0', and `don't care' ("X") conditions selectable on all channels

Edge: On any one or combination of channels. Rising edge, falling edge or change of state

Edge/Pattern combinations: Pattern OR/AND/THEN rising/falling edge/Change of state, Rising edge/falling edge/Change of state OR/AND/THEN pattern, Pattern < duration (glitch capture), Pattern > duration

Continuous: Unconditionally: Display updates at regular intervals
Conditionally: Display updates on detecting a trigger condition

Mouse/Keyboard: A trigger may be forced

Pattern Generator

Pattern source: Pattern editor or user file

Nr of channels: 8

Data to output clock: 50MHz max

Start Conditions: On logic analyzer start or arm, trigger condition, start button

Minimum input impedance of load: 4k7/100pF

Modes of Operation: Single/Continuous

Output level: +3.3V

Display

No. of channels: Any number of channels may be displayed

Channel/group names: User specified signal/group names
Grouped channel values may be displayed in Hex, decimal or ASCII

Display order/Colors: User specified

Number converter: Converts between decimal/binary/hex

Zooming: Zoom in/out/previous/all/between cursors

Cursors: Various for time measurements, indicating the trigger point, etc.

Time measurements: Time differences between any two cursor lines or trigger line may be displayed. The time difference may also be indicated as a frequency

Edge snapping: Cursors (X, Y & Z) snap to signal edges for accurate time measurements

Pattern search: Any channel. Conditions may be specified for 1, 0 and don't care conditions

General Specifications

Saving to disk - formats: Binary data, Hex, Spreadsheet (CSV), Configuration

Printed output: The timing diagrams, bitmaps, binary and hex data, may be printed. Landscape and portrait

Connection to PC: USB 2.0 High Speed Mode (USB 1.1 Full Speed compatible)

Power requirements: 3.6W Max capturing data, without pattern generator
3.8W Max with pattern generator

Unit dimensions/weight: 136mm x 122mm x 26mm, 260 g

Package contents: The LA-Gold-36 instrument
32 quality SMD test clips with ground leads
User's Manual hardcopy
Software and documentation on CD
External power supply
Handy carry case

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