




NEW PRODUCT	 A National Instruments Company	Release Year 2017	Released Quarter Q1
Digilent Part Number 410-338		Category Scopes / Instrumentation	

OVERVIEW

Product Name: Digital Discovery: High Performance Pocket Sized Logic Analyzer, Built-in Pattern Generator	
Product Subtitle: Debug, visualize, and simulate digital signals for embedded projects	
Product Description: The Digilent Digital Discovery™ is a combined logic analyzer and pattern generator instrument for the embedded debug. Makers, hobbyists, engineers and designers can use Digital Discovery™ to debug, visualize, and simulate digital signals for embedded projects. Connect Digital Discovery™ (Mac, Linux, or Windows) over high-speed USB. It comes with Free application software Waveforms 2015	
Key Search Terms: Instrumentation, Embedded, Logic Analyzer, Pattern Generator, Digital Signals, Bus signals, Protocol Analyzer	Video Link: https://www.youtube.com/watch?v=dnYoayFSofQ
Getting Started Guide: https://reference.digilentinc.com/learn/instrumentation/tutorials/digital-discovery-getting-started/start	
Hardware Reference Manual: https://reference.digilentinc.com/reference/instrumentation/digital-discovery/reference-manual	
Tutorial: <ul style="list-style-type: none"> Using the Logic Analyzer Using the Pattern Generator Using the Static I/O 	Projects: <ul style="list-style-type: none"> Decoding VGA signals
Hardware Resources <ul style="list-style-type: none"> 24 high-speed input pins (DINO...23), 100MHz bandwidth, 560kΩ 10pF accessible through one 2×16 connector 2Gbit DDR3 acquisition buffer for DIN pins 16 digital I/Os (DIO24...39) arranged in two Pmod-style (2×6) connectors Output buffer: 32K samples/channel for DIO pins Automatic or manual strength and slew settings for outputs. User programmable DIN and DIO LVCMOS voltage levels from 1.2V to 3.3V (5V compatible) User power supplies, 1.2V to 3.3V, available in the two Pmod-style connectors (100mA max) Includes: USB cable, fly-wire accessories (change the accessory) 	Product Image 
Related Items: <ul style="list-style-type: none"> 410-349 Digital Discovery High Speed Adapter and Logic Probes 	Image Links: <ul style="list-style-type: none"> https://flic.kr/p/NPzXSf (Oblique) https://flic.kr/p/NPzXKb (Top) https://flic.kr/p/RnBrin (Connected)
Virtual Instruments <ul style="list-style-type: none"> Logic Analyzer <ul style="list-style-type: none"> Up to 800MSps input sample rate with 8 inputs (and the High Speed Adapter) Up to 200MSps with 32 inputs Digital Bus Analyzers (SPI, I²C, UART, Parallel) Patterns generator <ul style="list-style-type: none"> Algorithmic pattern generator or buffer based patterns ROM Logic for implementing user defined Boolean functions and State Machines 100MSps max output sample rate (50MHz maximum output frequency) Protocol controller <ul style="list-style-type: none"> DIO pins are used for UART send and receive, SPI read and write, I²C read and write capable Static I/O Supplies: Sets the user power supply and logical levels, pull resistors, output strength Script: Advanced functions 	

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PRODUCT DATA

<i>Dimension*</i>	3.14x3.14x0.98 inches	<i>Weight*</i>	0.17 lbs
<i>Product Type</i>	<input checked="" type="checkbox"/> Digilent <input type="checkbox"/> Resell		
<i>Packaging</i>	Plastic Box		
<i>Export</i>	EAR99	<i>HTS Code</i>	8473.30.11.80
<i>Kit Contents</i>	<input checked="" type="checkbox"/> USB Cable <input type="checkbox"/> Voucher <input type="checkbox"/> Power Supply Other: fly-wire accessories, high speed adapter and twisted wire high-speed cables for input channels to insure signal integrity		
<i>Certifications</i>	<input checked="" type="checkbox"/> CE <input checked="" type="checkbox"/> RoHs <input checked="" type="checkbox"/> Reach <input type="checkbox"/> Other:		

***Dimension & Weight include packaging**