

# W4100

## High Value Developer's Kit

Wintech's 4100 developer kit, based on Texas Instrument's DLP<sup>®</sup> Discovery chipset, offers an economical solution to the standard Discovery 4100. By utilizing TI's DDC 4100, DAD2000, and Digital Micromirror Device (DMD), the W4100 is a drop in replacement to the D4100 and provides the exact same functional performance at a fraction of the price. The W4100 provides end users the same data interfaces (USB 2.0, Avnet EXP) and developer interfaces (JTAG, MICTOR) as found on the Texas Instrument's D4100 kit. The W4100 is the ultimate solution for users at the development level as well as customers expecting to move into production with DLP<sup>®</sup> Discovery<sup>™</sup> Technology.

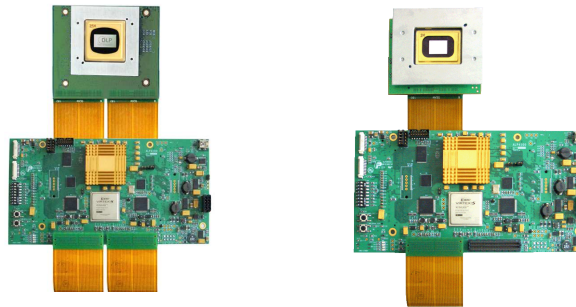


Similar to the D4100, the W4100's flexibility and high frame rate are based on the same Xilinx Virtex 5 LX50 Applications FPGA (Field Programmable Gate Array). As with the D4100, the Virtex 5 enables end users to achieve up to 32,552 binary frames per second through the use of custom firmware. The W4100 is compatible with the standard DLP<sup>®</sup> Discovery<sup>™</sup> DMD mirror arrays including the 0.95" 1080p, and 0.7" XGA devices which offer high spectral reflectivity between 350 and 800nm. Additionally, the W4100 is also compatible with the Explorer Starter software and example code provided by TI. Additionally the W4100 is available with a 300MHz memory option through the use of an upgraded Xilinx FPGA. Wintech also offers the NSP family of interface solutions that complement the W4100 kit and allow for data transfer rates of more than 8Gbps through the EXP expansion connectors.

### System Highlights

- Low Cost Alternative to the D4100
- 32,552 fps (XGA)/23,148 fps (1080p)
- Xilinx Virtex 5 LX50 Apps FPGA
- 400MHz 2xLVDS interface
- Cypress USB 2.0
- Avnet EXP Expansion Connectors
- DDR 2 SODIMM Memory Connector
- Access to Explorer Starter GUI and Software
- Includes: W4100 PCB, DMD, Flex Cable , DMD Board, Power Supply, and TI KnowledgeBase Access

# W4100



**W4100 0.95\"**

**W4100 0.7\"**

**Package Type**

**Resolution (Pixels)**

**Wavelengths**

**Pixel Pitch (um)**

**Frame Rate (binary fps)**

**Array size (in.)**

**Optical Fill Factor (%)**

	A	A
	1920x1080	1024x768
	VIS, UV	VIS, UV
	10.8	13.68
	23,148	32,552
	0.95	0.7
	>91	>91

Wintech Digital Systems Technology Corporation is a Texas Instrument’s DLP® Authorized Design House with locations in both China and the US. We are a full service engineering company with more than two dozen engineers that can design and manufacture all aspects of DLP® systems including electronics, optics, thermal management, laser light sources, and software.

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