

Required Commerically Available Components

Description	Supplier	Supplier Part #	Manufacturer		Unit Price	Qty	Total	Ordering Link	
			Manufacturer	Part #					
Data Acquisition Card	National Instruments	782264-01	National Instruments	782264-01	\$4,850.00	1	\$4,850.00	http://sine.ni.com/nips/cds/view/p/lang/en/nid/209076	
Cable - shielded	National Instruments	192061-0R5	National Instruments	192061-0R5	\$113.00	1	\$113.00	same as above	
Power Cord - North America 120VAC	National Instruments	763000-01	National Instruments	763000-01	\$9.00	1	\$9.00	same as above	
Power Supply	Newark	69R7214	Keysight	E3630A	\$670.00	1	\$670.00	http://www.newark.com/keysight-technologies/e3630a-gsa/dc-bench-power-supply/dp/69R7214	
BNC cable - 36"	Digikey	314-1256-ND	Mueller Electric Co	BU-P5697-36	\$8.13	1	\$8.13	http://www.digikey.com/product-search/en/keywords=314-1256-ND	
BNC to banana adapter	Digikey	501-1032-ND	Ponoma Electronics	1269	\$8.99	1	\$8.99	http://www.digikey.com/product-search/en/connectors-interconnects/between-series-adapters/1442774?k=501-1032-ND	
BNC to banana cable - 36"	Digikey	501-1481-ND	Ponoma Electronics	5268-C-36	\$25.99	2	\$51.98	http://www.digikey.com/product-search/en?keywords=501-1481-ND	
BNC terminator (50ohm)	Digikey	ACX1066-ND	Amphenol-RF Division	202103	\$2.64	20	\$52.80	http://www.digikey.com/product-search/en?vendor=0&keywords=ACX1066-ND	
total							\$5,763.90		

Min Computer Requirements directy from SpikeGL user manual (Bill Karsh)

Windows XP SP3 or later.

Minimum of four cores.

Minimum of 2.5 GHz.

Minimum of 4 GB RAM.

Dedicated second hard drive for data streaming.

SpikeGLX is multithreaded. More processors enable better workload balancing with fewer bottlenecks.

The OS, background tasks and most other apps make heavy use of the C:/ drive. This is the worst destination for high bandwidth data streaming.

A second hard drive dedicated to data streaming is strongly recommended.

More cores and a separate drive are by far the most important system specs. More RAM, clock speed, graphics horsepower and so on are fine but less critical.