



Fuentes láser

1. Láser continuo 405nm de 40mW, con fuente ajustable en potencia (Cantidad: 1)

Marca:	Crystalaser
Modelo:	DL405-050
Año de compra:	2009
Descripción:	405 (+/-5)nm, 40mW, Low Noise TEM ₀₀ . Noise <0.5% (rms. 10Hz-20MHz). Output stability 1% Compact Solid. State laser with CL2005 power supply.



2. Láser continuo 405nm de 200mW, con fuente ajustable en potencia Crystalaser (Cantidad:1)

Marca:	Crystalaser
Modelo:	DL405-200-O
Año de compra:	2014
Descripción:	405 (+/-5)nm, 200mW, Circular, M2 <1.3. Noise <0.5% (rms. 10Hz-20MHz) Output stability 1% Compact Solid. State laser with CL2005 power supply.



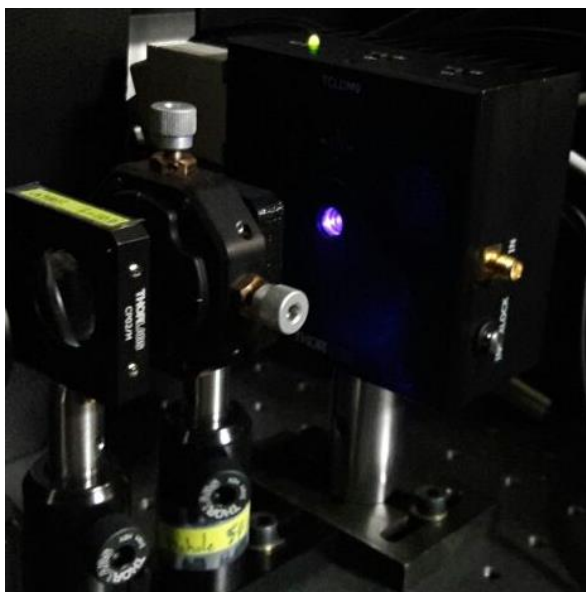
3. Láser HeNe 633nm de 0.5mW (Cantidad: 1)

Marca:	Thorlabs
Modelo:	HRP005S
Año de compra:	2009
Descripción:	Self-contained helium-neon laser system. Wavelength 633nm. Minimum Output Power 0.5mW. Power 3 Seconds After Turn-On > 75%. Polarization Linear > 500:1. Mode Structure TEM00 > 99%. 1/e2 Beam Diameter 0.57mm. Beam Divergence 1.41mrad.



4. Complete Laser Diode / Temperature Controller Set incl. Mount, Optic, & Accessories for 350-700nm (Cantidad: 1)

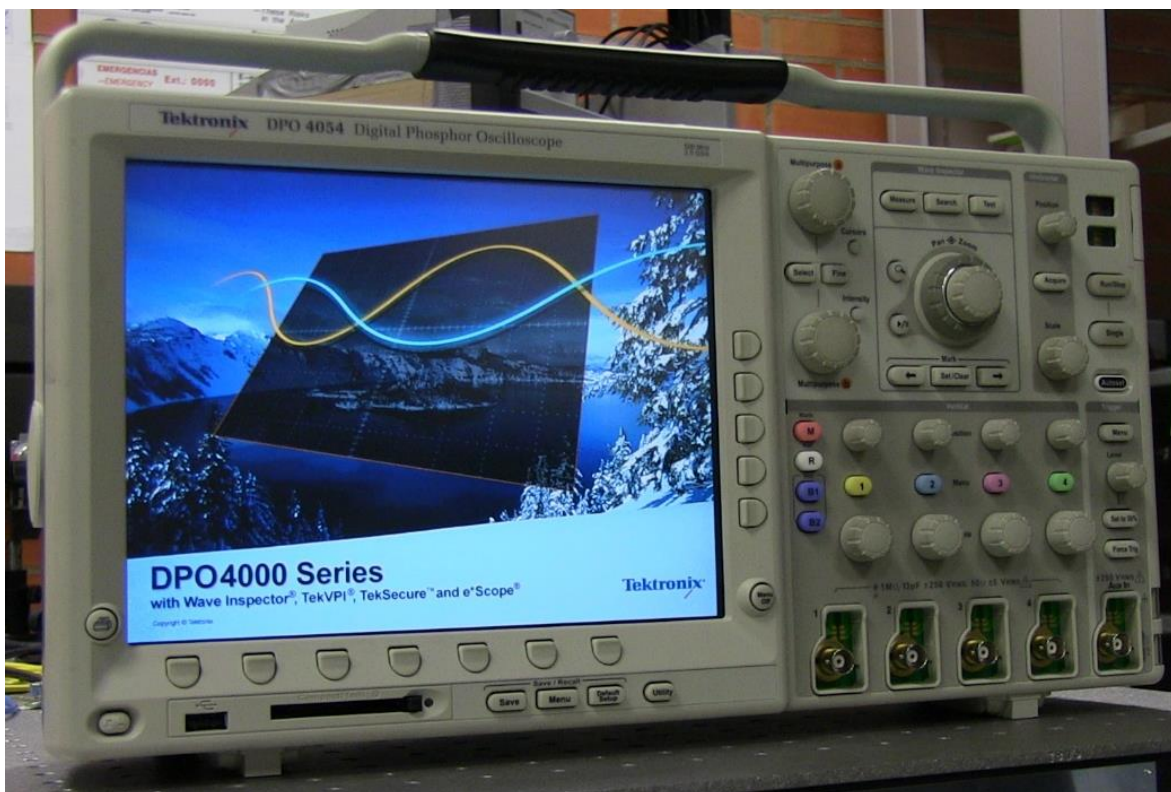
Marca:	Thorlabs
Modelo:	LTC100-A
Año de compra:	2016
Descripción:	The LTC100 Series is a complete laser diode and temperature controller set including mount, optic and accessories. It combines the benchtop LD Current Controller LDC205C and the benchtop Temperature Controller TED200C and other required items for a stable and safe operation of standard laser diodes. Included Items: • Benchtop LD Current Controller ± 500 mA HV: LDC205C • Benchtop Temperature Controller, ± 2 A / 12 W: TED200C • TEC LD Mount: TCLDM9 • All Connection Cables • Spanner Wrench for M9 x 0.5 Housing: SPW301 • Spanner Wrench for SM1 Adapters: SPW909 • TR Series Post: TR3 • Post Holder for TR Series Post: PH3 • Mounting Base: BA2 • Optic Adapter: S1TM09 • Locking Nut: SM1NT • Grounding Wrist Strap: WS02 • AR-Coated Collimation Optic: For 350 - 700 nm: C230TMD-A



Instrumentos de medición

5. Osciloscopio digital de 4 canales, 500MHz (Cantidad: 1)

Marca:	Tektronix
Modelo:	DPO4054
Año de compra:	2009
Descripción:	Oscilloscope; digital phosphor, 500 MHz, 2.5 GS/s, 10M record length, 4-ch, color display.



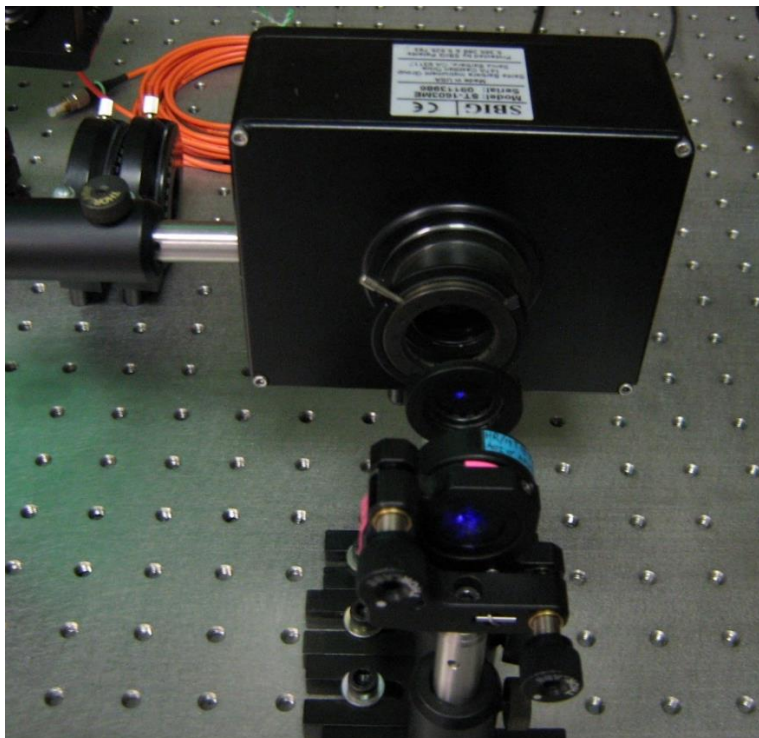
6. Detector de fotones individuales, cuentas oscuras menores a 250cps, con conector de fibra FC/PC. (Cantidad: 5)

Marca:	Perkin Elmer
Modelo:	SPCM-AQRH-13-FC
Año de compra:	2009, 2011 y 2014
Descripción:	Single photon counting module Avalanche photodiode. Peak photon detection efficiency at 650 nm: 65% typical. Active area: 180 μm . Gated output. Single +5 V supply. Maximum dark count rate: 250 counts per second. FC fiber connector attached.



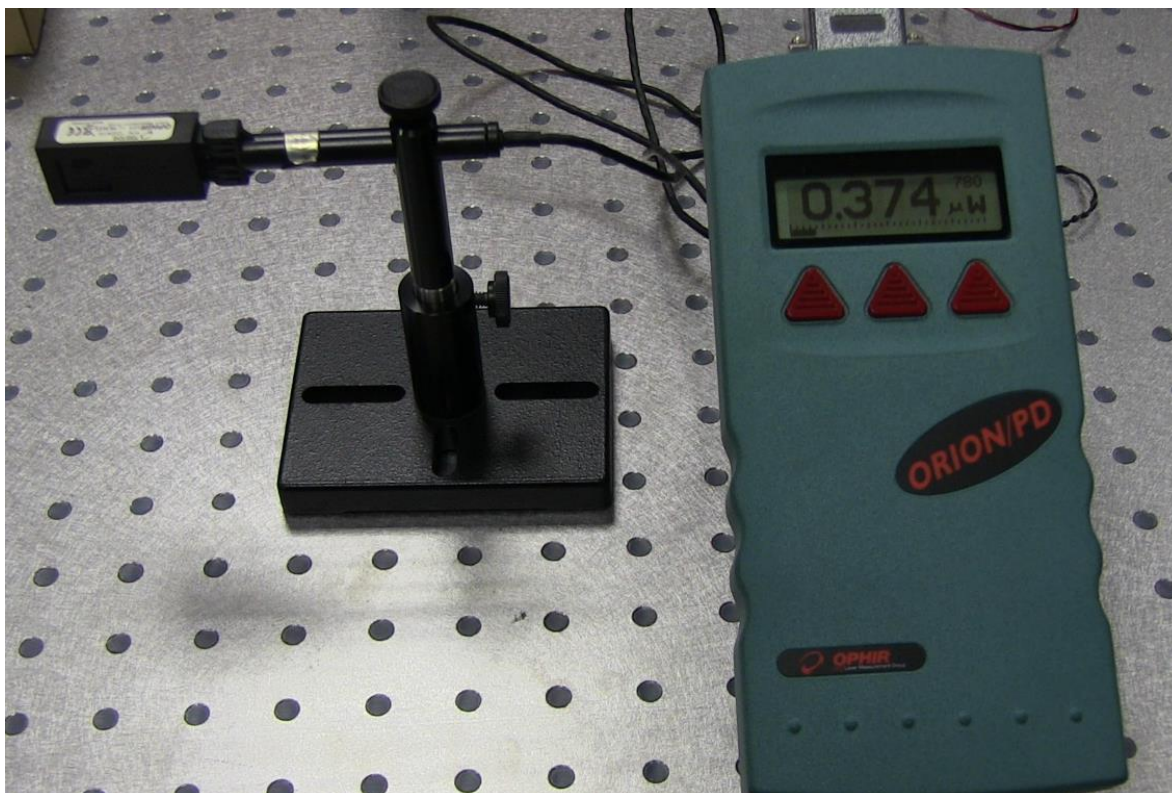
7. Cámara CCD, 1530x1020pixeles, resolución de 9x9um. (Cantidad: 1)

Marca:	Santa Barbara Instruments Group (SBIG)
Modelo:	ST-1603ME
Año de compra:	2010
Descripción:	High quantum efficiency CCD imaging camera. Imaging CCD Kodak KAF-1603ME. Imaging/Pixel Array 1530 x 1020 pixels. CCD Size 13.8 x 9.2 mm. Total Pixels 1.56 million. Pixel Size 9 x 9 microns. Peak QE >80%. Shutter Electromechanical. Exposure 0.09 to 3600 seconds, 10ms resolution. Full Frame Download ~2.1 seconds with USB 2.0. Temperature Regulation +/- 0.1 deg. C. Power 12VDC, Power Supply Included. Dimensions 5 x 4 x 2.5 inches (including fan). Mounting T-Thread.



8. Medidor de potencia óptica, con cabeza lectora (Cantidad: 1)

Marca:	Ophir Spiricon
Modelo:	cabeza: PD300, pantalla: Orion-PD
Año de compra:	2009
Descripción:	Cabeza: Aperture 10x10mm. Spectral Range 350-1100nm. Power Range 500pW-300mW. Dimensions 120 L x 13 W x 21 D (mm). Pantalla: Orion power meter for photodiode sensors. Supports all Ophir photodiode sensors 200-1800 nm. Wavelength corrected at 1nm increments with user selected favorite wavelength for ease of use. Display Watts or dBm. Auto or manual range. Laser tuning screen to maximize laser power.



9. Perfilador de haces 7 cuchillas, detector de silicio (Cantidad: 1)

Marca:	Coherent
Modelo:	BeamMaster USB BM-7 Si-enhanced
Año de compra:	2014
Descripción:	Knife-edge profiler; 9mm square with 7 knife edges; Enhanced silicon detector. CW laser beam shape, power and position measurements. Beam sizes from 3 μm to 9 mm with 0.1 μm resolution and high dynamic range. Real-time Windows display, analysis and data-logging system. Wavelengths from 190 nm to 1800 nm. USB interface available.



10. Time-to-digital converter (TDC). (Cantidad: 1)

Marca:	Qutools
Modelo:	TDC quTAU H
Año de compra:	2017
Descripción:	Time-to-digital converter (TDC). Registers incoming signal events on 8 independent channels, records their exact time (bin size 81 ps) and channel number and communicates these to a PC.



11. WaveLenth Meter (Cantidad: 1)

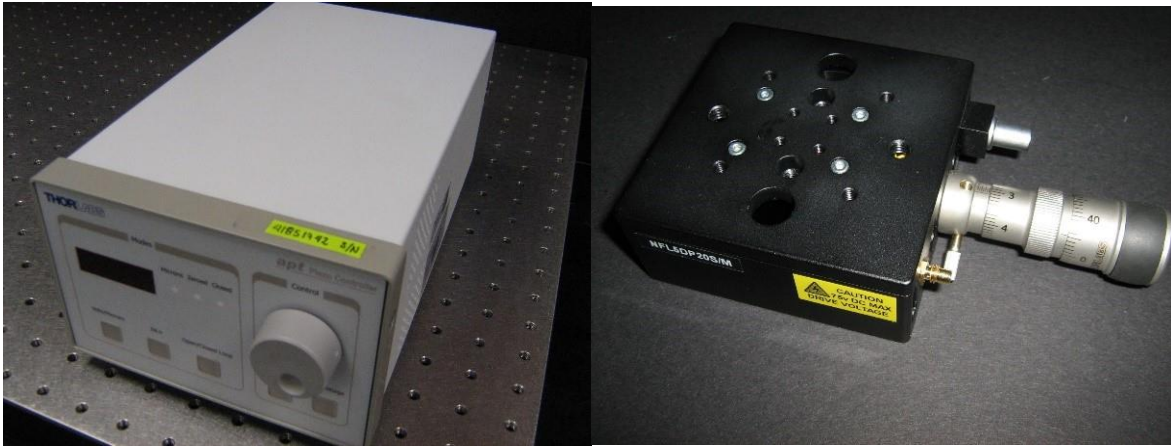
Marca:	High Finesse
Modelo:	WS/6-200
Año de compra:	2017
Descripción:	High precision wavelength meter is designed for everyday control of pulsed and cw laser sources. They can be operated with very low light intensity coupled through an easy-to-use optical multi-mode fiber. Optical elements and electronics are housed in a compact, thermally insulated casing.



Actuadores

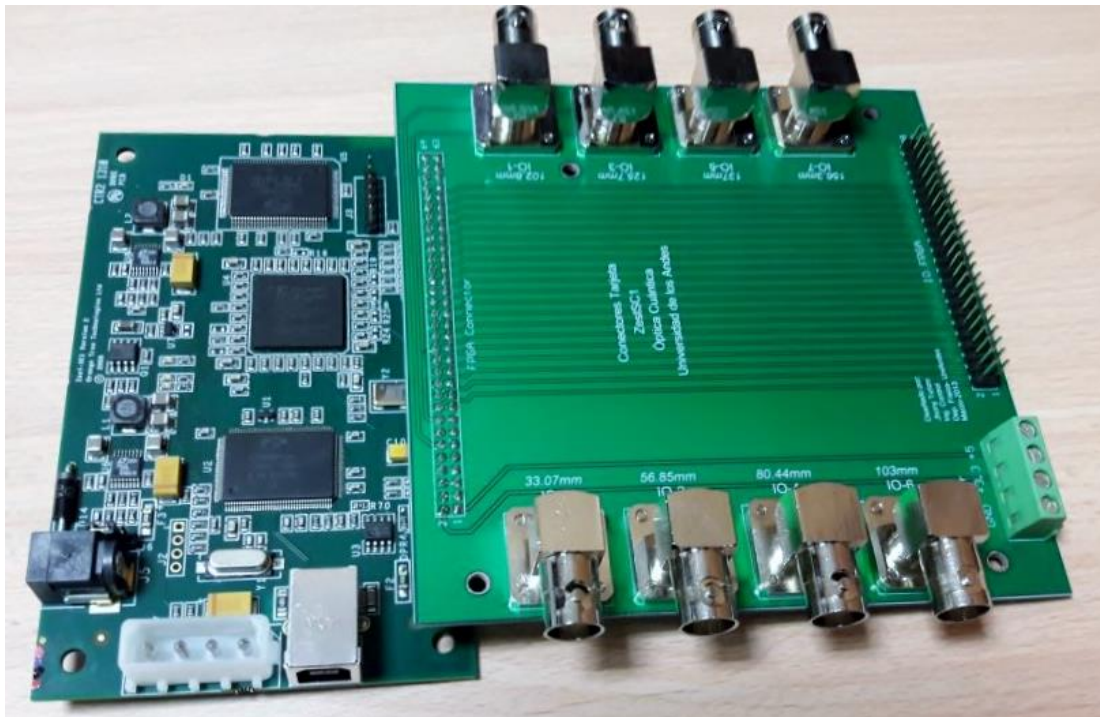
12. Plataforma traslacional 5mm con piezoeléctrico y controlador USB (cantidad: 2)

Marca:	Thorlabs
Modelo:	Plataforma: NFL5DP20S/M, controlador: BPC301
Año de compra:	2014
Descripción:	Plataforma: NanoFlex™ single-axis compound flexure stage. Travel of 5mm of coarse manual adjustment with a resolution of 1µm. The differential adjusters also offer 300µm of fine adjustment at a resolution of 50nm. Piezo actuated version, 20µm piezo travel with a 20nm resolution when driven by one of the Thorlabs 0 to 75V piezo controllers. Load capacity is 1Kg (2.2lbs). Controlador: 1-Channel 150 V Benchtop Piezo Controller with USB. Variable output selection: 75 V, 100 V, or 150 V. Closed-loop PID with advanced control algorithm. Strain gauge or capacitive sensor feedback options. High-resolution position control for very fine positioning applications. Voltage ramp/waveform generation capability for scanning applications. High bandwidth (10 kHz) piezo positioning. Auto-configure function for thorlabs ident-equipped piezo actuators. User-controlled digital I/O port. USB plug-and-play – multiaxis expansion. Motor control I/O port (jogging, interlocks). Full software control suite supplied. Intuitive software graphical control panels. Extensive ActiveX® programming interfaces. Fully software integrated with other APT™ family controllers (integrated systems development).



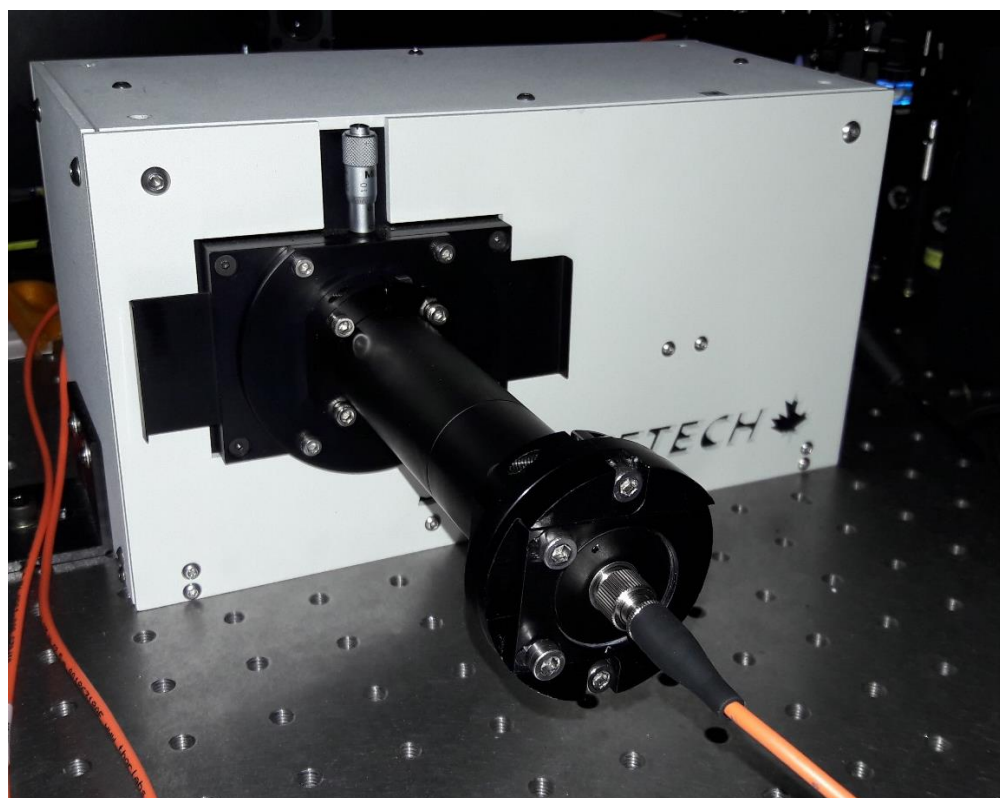
13. FPGA (Cantidad: 3)

Marca:	Orange Tree Technologies Ltd.
Modelo:	Zest-SC1 y Zest-SC2
Año de compra:	2009,2013,2016
Descripción:	ZestSC1: FPGA USB board is a low-cost, high performance FPGA board suitable for prototyping and production through to OEM volumes. 1 million gate Xilinx Spartan FPGA, 8Mbytes SRAM, 49 user IO pins. (Cantidad:2) ZestSC2: FPGA USB board has all the benefits of the ZestSC1 as a high performance FPGA board suitable for prototyping and production through to OEM volumes. 4 million gate Xilinx Spartan FPGA, 64MB SDRAM, 8MB SRAM, Flash, massive 200 user IO pins. (Cantidad:1)



14. Monocromador / espectrógrafo con USB, Controlado por computador (Cantidad: 2)

Marca:	Siencetech
Modelo:	9072
Año de compra:	2016
Descripción:	9072S is a small 1/8m scanning monochromator. The 9072S uses plane gratings 30mm x 30mm in size and utilizes a Czerny Turner optical configuration. The 9072S is designed to be used with single channel detectors or connected to another 9072S to form a double additive or subtractive system. The base 9072S system has a triple grating turret which is computer controlled.



15. Spatial Light Modulator Kit SDE1024 (Cantidad: 1)

Marca:	Cambridge Correlators
Modelo:	Spatial Light Modulator Kit SDE1024
Año de compra:	2016
Descripción:	Resolution: 1024x768 Bit-depth: 8-bit Pixel pitch: 9x9um Reflectance: 62% at 633nm Operating temperature: 0-50 degrees Celsius Active area: diagonal 0.45" Active area dimensions: 9.3x7mm LC: Twisted Nematic Mode Operating Wavelength: 430-650nm Input Polarisation: Parallel with longest side Contrast Ratio: 350:1 LC response time: 200us Interface: VGA Input voltage: 5V DC Retardation: ~0.8pi at 633nm Compatible with Thorlabs 30mm cage system (not supplied) M6 threaded mount on base allows unit to be mounted to optical table/breadboard (not supplied)



16. Impresora 3D (Cantidad: 1)

Marca:	3D Make-R
Modelo:	Impresora 3D Prusa Tairona multimaterial
Año de compra:	2015
Descripción:	Tecnología: modelado por fusión/adición (FDM/FFF) Volumen De Impresión: 200 mm largo x 195 mm ancho x 210mm alto Resolución De Capa Máxima:0.05 mm Diámetro Nozzle: 0.4 mm Diámetro De Filamento: 3 mm Hotend: All Metal Catnozzle versión 2.3 Tipos De Archivo: .obj .stl .dea .amf Sistemas Operativos: Windows / OSx / Linux Chasis:Prusa Tairona en Acero inoxidable de 3mm Superficie De Impresión: PCB MK2b (dual 12/24V) Motores: Nema 17 paso a paso 4.0 kg/cm de torque, 1.8 grados por paso Dimensiones: 45cms ancho x 43cms de largo x 40 cms alto Peso: 9 kg Temperatura De Operación:10° a 32° Entrada Ac: 100-240 VAC 50-60 Hz Requerimientos De Potencia: 12 VDC @ 16 Amperios.

