FUNHOUSE CREATIONS Inc.   2020

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www.coolneon.com   (510) 547-5878

Catalog and Price Guide

Cool Neon Electroluminescent Wire, Drivers and Sequencers
Total Control Lighting LED Pixels and Controllers
Arduino Boards and Shields
LED Party Decorations, Playa Gifts

Tech Support phone hours: 10 am – 5 pm Monday through Friday.
In-store shopping hours: 11 am – 4 pm Wednesday through Friday.

New LED product lines -- Cool Neon Tubing now ½ price at $10/foot in 9 beautiful colors, and, just arrived: addressable Cool Neon Tubing – too beautiful for words & WS2812 Costume Pixels –- offer lots of new possibilities for signs and costumes.
We are fully stocked , All of our poducts ship from Oakland, CA, and everything that was made in China has arrived by sea or air shipments before November of last year. We are all in good health, but will be reducing our shipping to 3 days a week with an emphasis on getting all orders out every Wednesday so all of our California, Nevada, and Oregon customers will get their orders by the weekend. If you need something shipped outside of this time-frame, please give us a call. Should you need assistance, our phone support will be operating full-time.

Visit, call, or email us at info@coolneon.com.
Our friendly, knowledgeable staff is here to help.

For more information, including specs, pictures, videos, tutorials, and products not included in this catalog, visit ¹neon.com, call us at (510) 547-5878, or email us at info@coolneon.com.

Table of Contents:

Some of our NEWEST ITEMS!

    A whole new line of Cool Neon Tubing – the look of traditional neon lighting with the brightness and flexibility of LEDs.

    More colors to choose from for **10M Angel Tears** and **Olympic LED Rolls**

    Total Control Lighting:

        Pro Mini and FTDI for the Pro Mini for more programming options

        TCL Mini Controller with Fire – all the functions of the TCL Mini plus our Fire program

        WS2812 Costume pixels – small, low-profile, supple jumpers – perfect for costumes

        Awesome TCL Cube – laser-cut acrylic cube faces ready for 25 TCL bullet pixels

    Red Laser – an astonishing beam of light projected by a tiny, rotational laser

Become a Fan of us on Facebook to see our customer's creations and to post your very own, be the first to know about New Additions to our product line, news and events, and deals and discounts you won't find anywhere else!

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Cool Neon Wire by the Foot

Discount at 400+ ft! **Call us for spool discounts!**

	Diameter (mm)	Aqua	Blue	Green	Lime Green	Yellow	Orange	Red	Purple	Pink	White	Fuschia	Forest Green	Price per foot
Angel Hair	1.2			✓	✓	✓			✓	✓			✓	$1.25
Standard	2.3	✓		✓	✓	✓	✓			✓				$1.40
High Bright	2.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			$1.30
Phat	3.2	✓			✓					✓				$1.50
Hella Phat	5.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			$1.40
Tail	3.2			✓		✓				✓				$1.45
Water Proof	3.0	✓												$2.50

We'll custom solder your raw wire for just $4/joint with never more than a one-week turnaround.
Please see our Plug & Play Kits on page 4 for pre-soldered wire in standard lengths of 5, 10, and 20 feet.

1.2mm Angel Hair Wire (WA): Our smallest diameter wire, Angel Hair is great for detail work. Without the PVC coating that protects our other Cool Neon wires, it's the most fragile and sensitive to sunlight. Not recommended for outdoor use or clothing. Standard Core with 1,800-hour half-life. (Half-life = number of hours of use at which it will be half its original brightness). Color notes: Purple and Forest Green are especially beautiful. Check back for restocking of all colors of Angel Hair.

2.3mm Standard Wire (WS) Supple, able to bend and unbend around the radius of a pencil with little memory or damage to the wire. Good for indoor or outdoor use and especially for clothing when you want a thinner diameter that can hold up to repeated bending. Standard Core with 1,800-hour half-life. Color notes: Orange is especially beautiful. Check back for restocking of all colors of Standard.

2.6mm High-Bright Standard (WHBS): 150% BRIGHTER than our Standard wire and glows bright after almost twice as many hours of use! Curl it around your finger and it will hold its shape thanks to the stiffness of its thicker core. Highly recommended for solid surfaces or applications that don't involve repeated bending like clothing does. Indoor or outdoor. High-Bright Core with 3,000-hour half-life. Color notes: Aqua and Lime are the brightest colors; Orange is a pumpkin-orange; Red is a reddish-orange.

3.2mm Phat Wire (WP): An extra coating makes our Phat wire UV-protected and weatherproof, giving it the best durability outdoors. Also highly recommended for costumes with its extreme flexibility and thicker PVC. Indoor or outdoor. Standard Core with 1,800-hour half-life. Color notes: Currently available in Pink, Aqua, and Lime only. Check back for restocking of all colors of Phat.

5.0mm High Bright Hella-Phat (WHBHP): Our thickest and most durable wire, with the same core as High Bright Standard and a PVC coating as thick as a pencil. The PVC coating diffuses the light, making the light seem wide at a distance. 150% BRIGHTER than the Standard 2.3mm core and glows bright after almost twice as many hours of use. It can safely be curled around the radius of a nickel but needs to be tacked down to hold its shape. Indoor or outdoor. High-Bright Core with 3,000-hour half-life. Color notes: see notes for 2.6mm High Bright Standard above.

3.2mm Tail Wire (WT): Tail wire is a 3.2mm Standard core wire with a sheet of PVC (8mm wide and .5mm thick) running along its side. The tail is great for stapling onto surfaces or sewing into seams of fabric on a sewing machine. Ideal for costuming, upholstery, art projects, and signage. Standard Core with 1,800 hour half-life. Currently available in only Yellow, Pink, and Green.

3.0mm Water Proof Wire (WWP): Great for enhancing your water-based projects, pool, hot-tub, or aquarium. While our other PVC-based wires are water resistant and may even work underwater for long periods of time, Water Proof wire is molecularly closed, ensuring total protection even when submerged. Standard Core with 1,800-hour half-life. Currently available only in Aqua.

PLEASE NOTE: Each strand of Cool Neon Wire ordered by the foot needs to be SOLDERED and attached to a DRIVER in order to glow. Custom solder joints can be ordered for $4/each.

For more information, including specs, pictures, videos, tutorials, and products not included in this catalog, visit www.coolneon.com, call us at (510) 547-5878, or email us at info@coolneon.com.

Plug and Play Units:

Soldered Cool Neon wire + the driver of your choice.
Available with High Bright Standard (2.6mm) or Hella Phat (5.0mm) Cool Neon wire
Just add batteries and you're good to glow! See page 6 for Driver details.

Pre-soldered Angel Hair (1.2mm), Standard (2.3mm), or Phat (3.2mm) wire in any length
and pre-soldered High Bright (2.6mm) and Hella Phat (5.0mm) wire in custom lengths
can be purchased by ordering Raw Wire by the foot and a Custom Solder Joint (see page 3).

5-foot Plug and Play Units	10-foot Plug and Play Units	20-foot Plug and Play Units
High Bright Standard 2.6mm $15.50 $14.00	**High Bright Standard 2.6mm** $23.00 $21.00	**High Bright Standard 2.6mm** $37.00 $32.00
High Bright Hella Phat 5.0mm $16.00 $14.50	**High Bright Hella Phat 5.0mm** $24.00 $22.00	**High Bright Hella Phat 5.0mm** $39.00 $34.00
And choose a driver:	*And choose a driver:*	*And choose a driver:*
AA Handheld Driver *Standard Fish Driver* *Pipsqueak Driver* *Short Sound Activated Driver* *1AA Driver* *Quieter Blue Fish Driver* *Pocket Pack Driver* *Fish with Switch* *Peacock Driver* *Techno Flash Driver** *Techno Strobe Driver* *4AAA Variable Speed Driver*	*AA Handheld Driver* *Standard Fish Driver* *Pipsqueak Driver* *Short Sound Activated Driver* *Quieter Blue Fish Driver* *Pocket Pack Driver* *Fish with Switch* *Peacock Driver* *9v Variable Speed Driver* *Techno Strobe Driver** *4AAA Variable Speed Driver*	*Standard Fish Driver* *Pipsqueak Driver* *Long Sound Activated Driver* *Quieter Blue Fish Driver* *Fish with Switch* *9v Variable Speed Driver* *4AAA Variable Speed Driver** *AA Handheld Driver**

* These drivers will be a little dim at the given length, but offer great strobing or blinking features.

Plug and Play Harnesses:

Soldered Cool Neon wire + a Y-Connector ("splitter"). Driver not included.

5-foot Plug and Play Harness	10-foot Plug and Play Harness	20-foot Plug and Play Harness
High Bright Standard 2.6mm $11.00 $9.00	**High Bright Standard 2.6mm** $17.50 $15.00	**High Bright Standard 2.6mm** $30.50 $27.00
High Bright Hella Phat 5.0mm $11.50 $10.00	**High Bright Hella Phat 5.0mm** $18.50 $17.00	**High Bright Hella Phat 5.0mm** $32.50 $30.00

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Instant Gratification: Funlights

Cool Neon wire in fun forms, no soldering required.
Just turn on the switch and you're good to glow!

ITEM	DESCRIPTION	COLOR	PRICE
Rainbow Tassles	One foot of all 10 colors of High Bright 2.6mm or Hella Phat 5.0mm soldered into one brilliant burst of color. (AAHH Driver recommended, sold separately)	2.6mm 5.0mm	$20 $25
SuperFreq	2ft of High Bright (2.6mm) Cool Neon wire soldered directly to a SuperFreq Driver. Super-fast strobe creates great effect in motion. Switch between Constant/Strobe/Off positions. Includes 2 CR2032 batteries.	Lime Blue Yellow	1 – 9: $12/each 10+: $8/each
TechnoStrobe	4 feet of High-Bright (2.6mm) Cool Neon wire soldered directly to a TechnoStrobe Driver. Switch between Constant/Strobe/Off. Belt clip. 2AA included!	Lime, Blue, Red, Yellow, Orange, Pink	$15
Cool Neon Sunglasses	Your outlook is bright with Cool Neon wire wrapped around these shades. Modes are: off/blink/full fun. A 3ft lead and belt clip lets you stash the driver somewhere convenient. Runs on 2 AAA batteries. **Notes:** These shades run small and are for extreme fun only!	Lime, Blue Orange, Pink	$20
Cool Neon Shades	A whole 'nother style. The tiny driver on these shades is mounted discreetly on the arm -- no wires to dangle or tangle. Modes are off, slow blink, fast blink, and full fun. Runs on 2 CR2032 batteries. **Notes:** The wire outlines the front only; they offer no protection from sun or fans.	**Frame:** black or white **Wire:** lime, blue, white or red	$20
Cool Neon Necklace	Cool Neon Wire attached to a small flashing driver with a clasp to wrap around your neck, body, bike, dog, whatever you want. Will last all night! 2 x LR44 batteries included. Flash only.	Green Blue	$7.50
GloWave	2.5mm High-Bright-Long-Life Cool Neon wire in a rigid yet bendy tube attached to a handheld driver with a constant on and multiple blink rates. Light Saber? Fencing Sword? Beacon antenna to find your bike? It's up to you what you do with it. Comes with 3AA batteries.	Lime Blue	$20

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Short-Length Drivers
All drivers that have a driver-side connector come with one wire-side connector free.

Driver Name	Features	Min. - Max. Lengths of Cool Neon	Dimensions L x W x H	Modes	Battery Hours (varies depending on length of wire, brand of batteries, etc. Consult chart online for details)	On/Off Switch?	Connectors	Power Requirements	Price
AA Handheld	Good range, portable, belt clip.	1 ft - 18 ft	4.25" x 1.8" x 1.25"	Fast Blink, Slow Blink, Constant, Off	Blink: 29 Constant: 12	Push button	Driver Side	2 x AA Internal	$7.50
1AA	Needs just 1 AA Battery!	1 in - 5 ft	2.25" x 1.3" x .75"	Blink, Constant, Off	Blink: 26 Constant: 13	Slide switch	Driver Side	1 x AA Internal	$5.00
1AAA	Needs just 1 AAA Battery!	1 in - 3'4"	1.9" x 1" x .5"	Blink, Constant, Off	Blink: 13 Constant: 13	Slide switch	Driver Side	1 x AAA Internal	$5.00
Techno Flash	Belt clip, long life for a small unit	1 in - 3 ft	3" x 1" x 5/8"	Flash, Constant, Off	Flash: 64 Constant: 10	Slide switch	Driver Side	2 x AAA Internal	$5.00
Water Resistant	It even floats!	1 in - 7ft	5" x 1 1/4" x 1 1/4" Cylinder	Blink, Constant, Off	Blink: 34 Constant: 13	Push button	Raw Leads	1 x AAA Internal	$7.00
Super Freq	Very tiny! Multi-modes Batteries included	1 ft - 5 ft	2" x 15/16" x 1/2"	Strobe, Constant, Off	Strobe: 33 Constant: 3	Slide switch	Raw Leads	2 x CR2032 incl. (no strobe at low power)	$7.00
Techno Strobe	Best strobe on a portable unit yet! Belt clip.	1 ft - 8 ft	3.5" x 1.3" x .75"	Strobe, Constant, Off	Strobe: 64+ Constant: 21	Slide switch	Raw Leads	2 x AA Internal	$7.00
Techno Strobe +1	Best strobe on a portable unit yet! Belt clip.	1 ft - 8 ft	3.5" x 1.3" x .75"	Strobe, Constant, Off	Strobe: 64+ Constant: 21	Slide switch	Driver Side	2 x AA Internal	$8.00
4AAA Variable Speed	Adjustable blink rate, long battery life, belt clip	1 ft - 15 ft	2.5" x 2.25" x 1.25"	Variable Blink, Constant, Off	Blink: 64+ Constant: 8	Slide switch Dial for blink rate	Driver Side	4 x AAA Internal or 6v Adapter	$6.00
Pea-Driver	Tiny!	2" - 22"	1" x 1" x .75"	Constant Only	Constant: NA	None	Raw Leads	1.5v External	$3.00
Short Sound Activated	Reacts to music with variable sensitivity	3 ft - 15 ft	2 1/2" x 2" x 1 1/2"	Sound Mode, Sensitivity control, Constant	Sound Mode: NA Constant: 34	2 slide switches for Sensitivity and Mode	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$7.00
Peacock	Quieter than most short-length drivers	3 ft - 15 ft	1 1/4" x 1" x 5/8"	Constant Only	Constant: 31	None	Driver Side, 9v snap	9v - 12v Ext. (8AA battery cage rec'd) or adapter	$5.00

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Medium-Length Drivers

All medium-length drivers come with one wire-side connector free.

Driver Name	Features	Min. – Max. Lengths of Cool Neon	Dimensions L x W x H	Modes	Battery Hours* (will vary depending on brand)	On/Off Switch?	Connectors	Power Requirements	Price
Fish with Switch	Our best general-purpose driver	1 ft - 35 ft	2" x 1.5" x 1.25"	Blink, Constant, Off	Blink:40 Constant: 21	Slide switch	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$8.00
Standard Fish	Work horse of the Playa. Strong, durable, and loved! Nearly indestructible	2 ft - 45 ft	1 3/8" x 1 1/2" x 1 1/2"	Comes in blink mode; cut white wire for constant mode	Blink: 56 Constant: 13	None Solder a toggle switch for both blink and power	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$8.00
Quieter Blue Fish	Quieter than most medium length drivers	2 ft - 35 ft	2" x 1 1/2" x 1"	Constant only	Constant: 13	None	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$7.00
Pocket Pack	Compact size, long life	2 ft - 18 ft	3.4" x 2.2" x .8"	Blink, Constant, Off	Blink: NA Constant: NA	Slide switch	Driver Side	4 x AAA Internal or 6v Adapter	$8.00
9v Variable Speed	Variable blink rates, dimmer switch, belt clip.	1 ft - 30 ft	2 1/2" x 2 1/2" x 3/4"	Variable blink and dimmer on separate dials	Blink: NA Constant: NA	Push button to toggle through modes	Driver Side, 9v snap	9v Battery Internal or 9v Adapter	$13.00
Pipsqueak	Small, quieter, lower freq.	4 ft - 20 ft	1 1/8" x 1 1/8" x 1"	Constant only	Constant: NA	None	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$6.00
Classic Pipsqueak	An even smaller version of the Pipsqueak	4 ft - 20 ft	1" x 3/4" x 1 1/4"	Constant only	Constant: 18	None	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$9.00
Large Strobing	Our most powerful portable strobing driver.	10 ft - 50 ft	2" x 1.5" x 1"	Strobe Only	Strobe: 18	None	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$24.00
Long Sound-Activated	Reacts to music with variable sensitivity	20 ft - 50 ft	2 1/2" x 2" x 1 1/2"	Constant, Sound Mode, Sensitivity control	Constant: 21	2 slide switches for Sensitivity and Modes	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$12.00

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Long-Length Drivers

All long-length drivers come with one wire-side connector free.

Driver Name	Features	Lengths of Cool Neon	Dimensions	Modes	Battery Hours* (will vary depending on brand)	On/Off Switch?	Connectors	Power Requirements	Price
Big Boy with Switch*	Switch, detachable 9v snap	10 ft - 80 ft	2.5" x 1 1/4" x 1 1/2"	Flash*, Constant, Off	Blink: 64+ Constant: 9	Slide switch	Driver Side, Detachable 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$18.00
Big Boy	Portable and powerful	20 ft - 100 ft	3" x 1.5" x 1.5"	Constant Only	Constant: 9	None	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$20.00
Classic Big Boy	The smallest, most powerful Big Boy	20 ft - 120ft	1 1/2" x 1 1/2" x 1"	Constant only	Constant: 6	None	Driver Side, 9v snap	9v - 12v External (8AA battery cage recommended) or 12v Adapter	$25.00
Driver Max	The most powerful non-AC driver ever!	50 ft - 330ft	5.5" x 3.2" x 2"	Blink, Constant, Off	Constant: NA	Slide switch	Driver Side	9v-12v Input or 12v Adapter	$110

* The Flash feature on the Big Boy with Switch Driver is inconsistent. The switch is mostly useful as an on/off toggle.

AC Drivers

All AC drivers come with one wire-side connector free.

Small AC	Small Wall-Wart that happens to be a driver	1 ft - 20 ft	1" x 2.3" x 1.6"	Blink, Slow Blink, Constant, Off	Push button to toggle through modes (unit resets to OFF when power is cut)	Driver side, 110v wall plug	110v Household current	$12.00
DAC160	A smaller version of the DAC330 listed below	0 ft - 160 ft	1.8" x 3.2" x 5"	Variable blink/strobe, Variable brightness, On/Off Switch	Toggle switch for On/Off Very sensitive knob for blink/strobe and brightness	Driver side, 110v wall plug	110v Household current	$60.00
DAC330	The best driver we offer! Fan cooled, variable strobe & blink rates, and a built-in Dimmer	0 ft - 330 ft	6 1/2" x 3 3/4" x 2 3/4"	Variable blink/strobe, Variable brightness On/Off Switch	Toggle switch for On/Off Very sensitive knob for blink/strobe and brightness	Driver side, 110v wall plug	110v Household current	$110

Sequencers

No Driver is needed when using a Sequencer, except for the Arduino CAT-09 Cool Neon Shield.
All sequencers come with Driver-Side Connectors and a free Wire-Side Connector for each channel.

3-Channel Pocket Sequencer	Lights 3 strands of Cool Neon wire in your choice of 8 patterns at fast or slow speed. Each channel powers from 1 ft – 5 ft of wire (all three channels must have wire attached). Runs on 6v DC. Powered by 4 internal AAA batteries or 110v house current with our 6v AC adapter (sold separately -- see p8). Dimensions: 2.2" x 3.4" x .8".	$25
4-Channel Pocket Sequencer	Lights 4 strands of Cool Neon wire in **a single chasing pattern 1, 2, 3, 4, 1, 2, 3, 4, ...** at just faster than 1 channel per second. Each channel lights 5 – 25 feet (all five channels must be used). Runs on 6v DC. Powered by 4 internal AAA batteries or 110v house current with our 6v AC adaptor (sold separately – see p8). Side On/Off Switch. Dimensions: 2 1/8" x 3 1/2" x 1".	$25
5-Channel Pocket Sequencer	Virtually the same as the 3-Channel Pocket Sequencer described above but with 5-channels, allowing for a total of 25 feet to be sequenced. Dimensions: 2 1/8" x 3 1/2" x 3/4"..	$35
8-Channel Economy Pocket Sequencer	Sequences 8 strands of Cool Neon wire each 5 ft – 50 ft long in a **single chasing pattern 1-2-3-4-5-6-7-8-1-2-3-4....** that repeats every 2.4 seconds. (All 8 channels must be used). This compact sequencer can be powered with a 9v external battery, a 9v AC power adapter, a 12v 8AA Battery Cage (highly recommended), or a 12v AC power adapter. Power draw is 200ma @ 9v DC/ 300ma @ 12v DC Dimensions: 2 1/4" x 3 1/2" x 1".	$35
Cat-09 2 – 10 -Channel Sequencer	We personally designed the Cat-09 to be loaded with features and fully programmable. It automatically senses how many channels you're using (from 2 – 10) and sequences them in patterns. Each channel can light 2 - 45 feet of Cool Neon wire. This sequencer comes with continuously adjustable speed control, an On/ Off switch, and a mode switch. We recommend using our 8AA Battery Cage or 12v AC adapter, but for greater portability you can also use a 9v internal battery. Dimensions: 3" x 2" x 5". Awarded our own US patent for its outstanding performance and capabilities. Made in the US and assembled in our shop with the Microchip CPU from Thailand. **For sequence patterns and operational details, download a copy of the user manual from http://www.coolneon.com/downloads/CAT-09instructions.doc**	$75
Cool Neon Arduino Shield	Designed by us to bring the possibilities of Arduino programming to Cool Neon wire. In combination with a Seeeduino Atmega and the driver of your choice (each sold separately), this Arduino Shield offers 10 channels, an interactive dial, and buttons for selecting patterns of your own creative design.	$75

**SEE PAGES 28-29 for our BRAND NEW line of ARDUINO Boards and Shields
for Total Control programmable sequences and effects.**

Cool Neon Electroluminescent Ribbon

Cool Neon Electroluminescent 1-Meter Ribbon	**Back in Stock, Brighter and Better than Ever! Currently available in Lime, Red, and Orange** A glowing, flat ribbon 1 meter long and over ¾" wide. With a soldered 2-pin connector at either end, you can cut the ribbon and use it as two separate pieces, or attach ribbons end-to-end. NOTE: Now comes with your choice of free driver: AC 12 v, or 4xAAA Illuminated Area: 13/16" x 39 ½". Total Size: 1-1/4" x 41"	**1 – 3:** $25.00/each **4 +:** $20.00/each

Power Adapters

Additional ways to power your drivers, sequencers, and other battery-operated devices

8 AA Battery Cage	Highly recommended! This battery cage snaps onto a 9V battery snap to supply 12v of power to your drivers, sequencers, or any other 12v device. 8 AA batteries will make your Cool Neon wire glow much brighter for much longer. It sounds bigger and heavier than you think, but can easily fit in most pockets along with the driver/sequencer of your choice. Use with: Fish Drivers, Sound Activated Drivers, Peacock Driver, Pipsqueak Drivers, Large Strobing Drivers, Big Boy Drivers, Driver Max, 8-Channel Pocket Sequencer, CAT-09 Sequencer, 12v Rope Lights, 5M & 10M Angel Tears, 12V Keebler Lights, Olympic LED rolls, RGB LED rolls, & our new Cool Neon Tubing.	$2
Delux 8 AA battery cage	Enclosed 8 AA battery cage with bulit in switch and barrel plug	$8
6V AC 400 mA Power Adapter	This sleek 6V Power Adapter has a plug on one end and a barrel connector on the other, letting you power your DC 6V devices with 110v AC house current. No batteries needed! Use with: 4AAA Variable Speed Driver, Pocket Pack Driver, and 3-, 4-, & 5-Channel Pocket Sequencers	$6
9V AC 300 mA Power Adapter	This sleek 9V Power Adapter has a plug on one end and a barrel connector on the other, letting you power your 9vDC devices with 110v AC house current. No batteries needed! Use with: 9V Variable Speed Driver	$6
12V AC 1.2 A Regulated Power Adapter	This 12v Power Adapter plugs into a wall socket and connects to your 12V devices with a 9V battery snap, giving you the option of powering your 12V devices with 110V AC house current. For projects that require up to 1.2A. No batteries needed! Use with: Big Boy, Fish, Pipsqueak, Sound Activated, Peacock, and Large Strobing Drivers, the 8-Channel Pocket Sequencer, and the CAT-09 Sequencer.	$8 $~~12~~
12V AC Power Adapter REGULATED 5.83A	This thing is a beast! It's a voltage-regulated computer power supply, providing 5.8 amps at DC 12V, with a 9V battery cap soldered on. Use with: Driver Max	$40
30A Variable Voltage Power Supply (0V – 12V)	Adjust the voltage on this 30A power supply to power projects that require 0V – 12V.	$45
PC Case Mod Power Harness – 12v	Power your Cool Neon with your computer! The 9V snap connects to your driver/seq. and the harness plugs between your PC's power supply and drive.	$4

For more power options, see Power Supplies
under Total Control Lighting (p19) and RGB LED Strips (p23).

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Connectors

All Cool Neon connectors are white unless otherwise specified.
All connectors of the same color are compatible with each other.

Wire-Side	A Wire-Side Connector must be soldered onto **each** strand of Cool Neon wire to make it Plug & Play: able to be easily attached and detached from drivers, sequencers, Y Connectors, Quad Connectors, and Plug & Play Extensions. The white connection socket is attached to a 5-inch, pre-tinned pigtail. Plug & Play connections snap together with a friction lock and detach with a gentle tug on the black wires at either side of the connection. One comes free with each Driver-Side Connector already on a Driver or Sequencer	$0.50
Bulk Pack of 50 Wire-Side	Always good to have on hand, at 50% off!	12.50
Driver-Side	This connector come pre-soldered onto most drivers. It's compatible with the Wire-Side connector found on Cool Neon wire, Y-Connectors, Quad-connectors, and Plug-and-Play Extensions. It's also useful for making custom-length Plug-and-Play Extensions. White connector with two pins, attached to a 5-inch, pre-tinned lead wire. Plug & Play connectors snap together with a friction lock and detach with a gentle tug on the wires.	$0.50
Bulk Pack of 50 Driver-Side	Always good to have on hand, at 50% off!	12.50
Y	Y-Connectors let you attach two strands of Cool Neon wire to a single driver. Stack 2 Y-Connectors to plug in 3 strands; stack 3 to plug in 4; etc. One included with every Plug & Play Harness.	$1.50
Quad	Quad-Connectors let you attach 4 strands of Cool Neon wire to a single driver. Stack 2 Quad Connectors to plug in 7 strands; stack 3 to plug in 10; stack 4 to plug in 13; etc.	$2.25
Plug-and-Play Extensions 6" or 36"	These are extremely useful, allowing you to extend the distance between any two Plug & Play items in your project. Start your wire glowing 3 feet away from your driver, bridge an 18" gap between two colors, or connect extensions end-to-end for even greater distances!	$1.50
Gender-Bender	This short connector has a Driver-Side connector at each end, opening up your project to advanced configurations or just to fix the mistake of soldering on the wrong connector.	$1.00
White Wire Converter	White Wire-Side connector at one end, Black Driver-Side connector at the other.	$1.00
White Driver Converter	White Driver side connector at one end, Black Wire-Side connector at the other.	$1.00
Black Wire-Side	Black Connectors aren't standard on any of our products nor are they compatible with our white connectors. But some people tend to like them. Unlike our white connectors, which are designed to pop apart under tension and save your solder joint from tearing, black connectors lock and must be squeezed to disconnect. Black Connector with pins.	$0.50
Black Driver-Side	Black Connectors aren't standard on any of our products nor are they compatible with our white connectors. But some people tend to like them. Unlike our white connectors, which are designed to pop apart under tension and save your solder joint from tearing, black connectors lock and must be squeezed to disconnect. Black Connector with sockets.	$0.50

For more information, including specs, pictures, videos, tutorials, and products not included in this catalog, visit www.coolneon.com, call us at (510) 547-5878, or email us at info@coolneon.com.

Soldering Tools and Supplies

Toggle Switch	Solder one of these in place to add an on/off switch to a driver or to individual Cool Neon strands or Rope Lights.	$2
9v Snaps	9-Volt battery snap connectors with color-coded pigtail leads. Useful for connecting drivers to alternative power sources and for making repairs. 5 snaps per package.	$2
Glue-Infused Heat-Shrink 1/4" 1/8" 1/3"	A layer of glue on the inside of this heat shrink melts when heated, sealing your solder joint against moisture and dust and hardening as it cools to protect your joint against bending. Shrink ratio of 3:1. Samples included **free** with every purchase of Cool Neon wire. 1/4" diameter recommended for all Cool Neon wire except Angel Hair (1.2 mm). Stretch the mouth of the heat shrink with needlenose pliers or tweezers to fit over larger joints. About 8 pieces per foot. 1/8" diameter recommended for Angel Hair (1.2mm) and speaker wire. About 12 pieces per foot. 1/3" diameter recommended for multiple solder joints or other special circumstances.	$1.00 / ft
Copper Foil Tape	Used in one of the methods of soldering joints. ~ 1" per strand is included free with every purchase of Cool Neon wire. **Up to 4 feet** will be provided **free** on request: it's our pleasure to help get you glowing. Order more at $.20/foot for intensive projects.	< 4 feet: free 4+ feet: $0.20 / ft
Speaker Wire	Speaker / Lead Wire is handy for extending any part of your Cool Neon wire project without adding any additional power output to your driver. Use as many feet as you'd like when adding distance between your driver and your Cool Neon wire, or when linking different strands of Cool Neon wire in series. Also useful for extending a toggle switch that you're soldering to a driver.	1 – 49 ft: $0.25 / ft. 50+ ft: $0.20 / ft
4-Conductor Lead Wire	20-gauge lead wire for your Total Control Lighting or RGB LED projects. Use to extend the distance between your controller and the first pixel, or between two pixels. Each wire is labeled to make soldering easier.	0 – 99 ft: $0.50 100+ ft: $0.35 / ft
Soldering Iron	Featherweight iron with pencil handle for delicate soldering jobs. 120VAC, 60 Hz, 30 watts; two-prong polarized plug; 18 AWG cord. Great for Beginners, this is also the iron we use in the shop!	$10
Project Box	Small Plastic box for projects. Has a simple lid with 4 screws. (Dims: 7/8" x 2 1/4" x 4 3/8")	$4
Personal Scale 50x.01 grams +/- .01 g	This pocket sized scale is amazingly rugged and accurate for its price. Comes with 3 AAA batteries, tray, tweezers, spoon, and a calibration weight. It's super easy to use with a tare function. .01 gram accuracy up to 50 grams. Units: Ozt. , dwt., oz., g.	$50

Cool Neon Kits

Learn to Solder Kit	
If you're just beginning to solder your own projects, this is the kit to get you started! **A $67 value for $35!**	

Includes*:
 	
1 Soldering Iron
 	
An assortment of Cool Neon Wire (all colors are Dealer's Choice):
    1 5-foot strand of High Bright (2.6mm) wire
    5 1-2 foot samples of a variety of:
        Angel Hair (1.2 mm)
        Standard (2.3 mm)
        High Bright (2.6 mm)
        Phat (3.2 mm)
        Hella Phat (5 mm)
 	
Drivers:
    1 Techno-Flash Driver (will power 1 in - 3 ft of Cool Neon wire)
    1 AAA Driver (will power 1" – 3'4")
    1 Techno-Strobe Driver (will power 1 - 8 ft)
    1 AA Handheld Driver (will power 1 - 18 ft)
 	
Connectors:
    6 Wire-side connectors
    2 Driver-side connectors
    2 "Y" connectors
 	
Supplies for lots of practice soldering joints
    1 ft Heat shrink tubing with logo – 1/4" diameter, glue-coated
    1 ft Heat shrink tubing with logo – 1/8" diameter, glue-coated
    1 ft Copper foil
    Solder
    Razor blade
 	
Batteries
    2 AA Batteries
    4 AAA Batteries
 	
* Components may be substituted with items of equal value based on availability.
	$35

PC Funky Light Kit		
Have the coolest PC computer in the neighborhood! Light up the inside of your transparent case or the outside of a regular one with 5 ft of Standard 2.3mm Cool Neon wire. Simply attach the included Molex connector to your PC's 4-pin Molex power supply (system requirement) and the included ac/dc internal inverter. No soldering required!	Lime Blue	$15

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Artist's Kit

All the lights you could want at your fingertips to get your creative impulses glowing.
No soldering required! A $250 value for $175!

Includes*:

Cool Neon Wire presoldered with Plug & Play connectors:
    20 feet of High Bright 2.6mm Aqua
    5 feet of High Bright 2.6 mm in each of the following colors:
        Lime, Blue, Yellow, Purple, Green, Pink, and Red.

Plug & Play Drivers and Sequencer (just add batteries and you're glowing):
    Fish Driver with Switch -- This driver is ready to drive up to 35 feet of Cool Neon wire in any number of strands, mix and match. Use the included 8AA battery cage for the brightest battery power. To power off wall current, use the included 12v AC Adapter.

    TechnoStrobe Driver -- This sleek hand-held driver will power any of the 5' wires with strobe or constant mode, on 2 AA batteries

    9V Variable Speed Driver -- Runs 1 - 30 feet of wire with on/off switch and separate blink rate and dimmer dials. Requires a 9V battery or a 9V power supply (sold separately). Please note: the 8AA battery cage and the 12V power supply cannot be used with this driver.

    Peacock Driver -- Runs 3 - 15 ft of Cool Neon. The smallest and quietest 9v-12v driver we carry.

    Long Sound Activated Driver -- Pulses and fades 20-50 feet of wire to music -- a super cool effect!

    4-Channel Pocket Sequencer -- Sequences 4 strands of Cool Neon Wire in a pattern of 1-2-3-4 from 5 - 25 feet per channel. Comes with our Plug & Play connector set, making this sequencer ideal for any of your projects. Powered by four AAA batteries, and equipped with an external power input port so you can use our 4.5v AC adapter (sold separately).

Cool Neon Funlights:
    One TechnoStrobe -- 4-foot of Cool Neon soldered directly onto a Technostrobe Driver.
    One SuperFreq -- 2' of Cool Neon soldered onto our tiniest driver yet.

Angel Tears: 6 ½+ feet of sparkling LEDs driven by 3 AA batteries.

Color Changing Egg: a beautiful item from our LED Fantasia collection, this egg contains RGB LEDs that slowly morph through a wide spectrum of mesmerizing colors.

Case Mod Power Harness -- PC power input connector that connects right to your Desktop PC tower for custom glowing case mods. Will run any driver equipped with a 9v snap.

Soldering accessories: One 9-volt battery cap, three "Y" connectors, three wire-side connectors, one driver-side connector, copper foil tape and heat-shrink tubing (so you can try your hand at soldering).

5 feet of metal armature wire which may be used as a frame for your project.

8 AA Battery Cage – Snaps onto a 9v connector, giving you 12 volts for more brightness and battery economy. Please note: the 8AA Battery Cage can't be used with the 9V Variable Speed driver.

12v AC Adapter -- This regulated 1.2A power supply will power the following drivers in your kit with wall current: Fish with Switch, Peacock, and Long Sound Activated. No batteries required!

* Components may be substituted with items of equal value based on availability.

$175

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TOTAL CONTROL LIGHTING:
Pixels – 9813 Chip

**Our most powerful system of individually addressable pixels,
using the 9813 chip and our patented silicon moulds.
A complete system includes pixels, a controller (TCL or Arduino), and a power supply.
For details on all Total Control Lighting items, please see www.coolneon.com**

Item	Description	Options	Price
Pixel strand of 25	Each of the 25 LEDs on the TCL Pixel strand can be controlled in terms of its color, brightness, saturation, and timing, independent of every other LED. Millions of colors are possible. The 9813 chip is the best we've found anywhere. A 4-pin waterproof connector at each end makes these strands plug & play with any TCL controller, Arduino shield, Power-T Connector, extensions, or additional strands of pixels. Bullets: max 3" center-to-center, ~ 7 ft from first-to-last pixels Square: max 4 ½" center-to-center, ~ 9 ½ ft from first-to-last pixels	Bullet Square	**1 – 19:** $50/each **20 – 79:** $40/each **80+:** $37.50/each
Pixel strand of 50	Each of the 50 LEDs on the TCL Pixel strand can be controlled in terms of its color, brightness, saturation, and timing, independent of every other LED. Millions of colors are possible. The 9813 chip is the best we've found anywhere. A 4-pin waterproof connector at each end makes these strands plug & play with any TCL controller, Arduino shield, Power-T Connector, extensions, or additional strands of pixels. Bullets: max 3" center-to-center, ~ 14 1/3 ft from first-to-last pixels Square: max 4 ½" center-to-center, ~ 19 ft from first-to-last pixels	Bullet Square	**1 – 9**: $100/each **10 – 39**: $80/each **40+**: $75/each

Special Order Pixels	Strands of pixels from special runs with custom specs. For your own custom run, please call the shop and allow 4 -6 weeks, generally.
	   White only LED -- a beautiful cool white LED soldered to the green output of our driver circuit. 1A power consumption at full brightness. Specify white 4-pin connectors if ordering extra to distinguish these strands from RGB.
	   Water Clear – The water-clear cast on these pixels allows for maximum brightness and a mesmerizing splash of distinct colors onto any surface, compared with the milky white diffusion of our standard pixels.
	   Extra-Long Jumpers -- ~23" of wire from base to base, with white jumpers and PVC.
	   Fragile – without the casing that isolates and protects each chip, these fragile pixels might be the perfect option for delicate projects that need the smallest and lightest pixels, with no waterproofing.
	   Opaque Mould: The PVC encasing the chip is an opaque white.
		White Only: Bullet/Square
		
		Black PVC Bullet/Square
		
		Extra-Long: Bullet
		
		Fragile: Bullet/Square
		
		Opaque: Bullet
			$2/pixel

Single Pixels	Specify the number and type (bullet or square) that you'd like, and we'll provide them in no more than two strands of unspecified length, with or without a connector attached. Having a few extra pixels on hand is extra insurance when you're installing large projects in playa conditions.	Bullet Square	$2/each
Signal Extenders	This is a single square pixel with amazing purposes: it boosts the signal so you can use as many 4-pin extensions as you wish. If plugged directly into the controller, it lets you run your program through multiple parallel strands flawlessly. ~15" end-to-end with pre-soldered 4-pin connectors.		$5

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TOTAL CONTROL LIGHTING:
Pixels – WS2812 Chip

The WS2812 line gives you individually addressable pixels at an economy price.
A complete system includes pixels, a controller (TCL or Arduino), and a power supply.
For Controllers, Extensions, Power Supplies, and Accessories, see pages 17 – 19.

Item	Description	Options	Price
WS2812 5-meter rolls Single Density or Double Density	5-meter rolls (~ 16 ½ feet) of individually addressable RGB LEDs in a silicon sleeve, running on DC 5V using either house current or batteries (see below). Everything comes ready to plug & play. Single Density rolls have 30 LEDs/meter; Double Density rolls have 60 LEDs/meter. The WS2812 chip has lines for 5V, Data, and Ground. These pixels are perfect for projects that require gorgeous effects at a low price point. Use our flagship line of 9813 Total Control Lighting to get the advanced functionality of Clock. The rolls can be cut between any two pixels to make shorter strips. Each roll comes able to plug directly into a controller and another roll end-to-end with a soldered 4-pin connector on each end. Connectors are also sold separately and can be soldered onto cut ends.	Single Density Double Density	$112.50 $225
WS2812 Costume Strands	**New item!!** The small size and low profile of the WS2812 pixel is paired with supple jumple wires to bring you strands of individually addressable LEDS that are perfect for costumes! 6 cm spacing: 25 pixels at ~ 5 feet, 50 pixels at ~ 10 feet 12 cm spacing: 25 pixels at ~10 feet, 50 pixels at ~ 20 feet	25 pixels 50 pixels	$25 $50
WS2812 1/2-meter strip	1/2-meter section of individually addressable RGB LEDs, densely packed at 77 pixels per section. These strips have no silicon protection and come with a self-adhesive backing. The WS2812 chip has lines for 5vDC, Data, and Ground. These pixels are perfect for projects that require gorgeous effects at a low price point. Use our flagship line of 9813 Total Control Lighting to get the advanced functionality of Clock. The rolls can be cut between any two pixels to make shorter strips.		$77
WS2812 16 x 16 grid	256 individually addressable RGB LEDs are arranged in a 16 x 16 grid for a mind-blowing display of color and light. The flexible grid measures 6 3/4"^{2} (70mm^2). The WS2812 chip has lines for 5vDC, Data, and Ground. These pixels are perfect for projects that require gorgeous effects at a low price point. Build an array with our flagship line of 9813 Total Control Lighting to get the advanced functionality of Clock. Use one 5V 4A power supply on each side to achieve full brightness.		$256

TOTAL CONTROL LIGHTING:
Controllers

**Light up your individually-addressable TCL pixels (9813 or WS2812 chips)
with controllers that are pre-programmed, use our open-source software,
or work with our Arduino shields. Live control has never been easier!
A complete system includes TCL pixels, a controller (TCL or Arduino), and a power supply.**

Item	Description	Options	Price
TCL Mini Controller with Fire **9813 only**	This super-sleek controller with RF remote control pad drives up to 800 pixels with 100 dynamic patterns and 29 static colors. It also has a custom Fire program (program #100) that will make your pixels blaze. It runs on DC 5-6V and can be used effectively in projects that are portable, like costumes.		$40
Gateway Controller **9813 only**	This entry-level controller comes preloaded with beautiful programs and speed settings to give you instant gratification and a craving for more. Control up to 512 pixels from the palm of your hand. It will work with any of our 5vDC regulated power supplies – house current or batteries.		$20
WS2812 Mini Controller **WS2812 only**	This super-sleek controller and RF remote control pad can drive up to 2,048 pixels 50 meters away with 300 visual effects. Runs at DC 5V only using either house current or battery power (batteries must be stepped down to 5V).	IR or RF	$40
WS2812 Slim Controller **WS2812 only**	With 3 buttons right on this Slim Controller, you can choose among Auto, Mode, and Speed settings for your WS2812 LEDs. This controller has no remote control pad. and runs at DC 5-6V using either House Current or battery power.		$20
Elite Controller **for 9813 or WS2812**	The Elite Controller lets you control up to 2,000 pixels on one port with custom programs that you store onto an SD card (included). With our free Windows software, you can map out your own layout or capture any picture or video. Record and upload up to 16 complex programs, including Flash animations and pictures. Operates at 5v DC – house current or batteries. A Gateway Controller and a DC 5V power supply comes free with the Elite. Choose House Current or Battery options from the list above.	Choose a power supply: DC 5V 2A 4 x D 4 x C 4 x AA	$150
Pro Controller **for 9813 or WS2812**	The TCL Pro Controller lets you control up to 8 ports of 512 pixels each with your custom programs or live PC input. Multiple controllers connected to each other can control over 100,000 pixels. Your pixels can react to on-the-fly, live manipulation to anything on your computer screen in real time: live music, live video, or various visual user interfaces. Operates at 110AC. Includes: its own power supply, one RJ45 Connector, a Gateway Controller, a 2GB SD card, and a 2A 5vDC house current power supply.		$400

TOTAL CONTROL LIGHTING:
Arduino Controllers (continued)

TCL Simple Shield **for 9813 or WS2812**	The Simple Shield is the fastest and easiest way to connect an Arduino UNO to Total Control Lighting. It's just a shield with a female TCL Connector, with the clock and data already connected to pins 11 and 13. No Soldering, No Hassle! Just mount the shield and plug it into your strand.		$10
TCL Developer Shield **for 9813 or WS2812**	Our Developer Shield was designed specifically for Total Control Lighting projects and it turns out to be the perfect Arduino shield for countless others. It enables 2 momentary buttons, 2 two-position switches, and 4 potentiometers. Also, just like the TCL Simple Shield, it has our waterproof 4-pin TCL output connector and a barrel connector for power input. All Arduino hobbyists will love this!		$20
Awesome Developer Shield Kit **for 9813 or WS2812**	Slick and functional, this assembled kit includes an anodized box enclosing the TCL Developer Shield and the Seeeduino Atmaga. Mounting flanges make installation easy. Comes with a free USB cable. The Awesome Developer Shield Box alone is $20 (comes with 7 screws)	9813 WS2812	$57.50
Seeeduino V3.0 / Atmaga 328p **for 9813 or WS2812**	Seeeduino is Arduino compatible board. Its design is based on Diecimila scheme, 100% compatible to its existing program, shield and IDEs. On the hardware part, remarkable changes are taken to improve the flexibility and user experience.	9813 WS2812 none	$27.50
Pro Mini	**New Item!** The Arduino Pro Mini is a microcontroller board based on the ATmega328p that can communicate with a computer, another Arduino, or other microcontrollers. It can be programmed with the Arduino software and supports serial, 12C (TWI) and SPI communication. The board comes without pre-mounted headers, allowing you to use various types of connectors and direct soldering,		$10
FTDI for Pro Mini	**New Item!** FTDI unit for Programming the Pro Mini.		$15

Software guides, video tutorials, and a link to our Arduino library can be found at www.coolneon.com

TOTAL CONTROL LIGHTING:
Power Supplies

These power supplies are compatible with the TCL system.
A complete system includes pixels, controller (TCL or Arduino), and a power supply.
**Please note: To keep your pixels glowing evenly bright from end to end,
TCL 9813 pixels need about 2A every 100 pixels; WS2812 pixels need about 4A every 100 pixels.**

Item	Description	Options	Price
DC 6V Battery Cage	Choose among these 6V battery cages, each of which comes with a barrel connector soldered on for immediate plug & play. Run time depends on the pattern and the number of pixels that you're using. The 4 x AA battery cage is recommended for 25 pixels only. Please note: Battery cages aren't for use with the Pro Controller, which runs on AC power only).	4 x D 4 x C 4 x AA	**1 – 9:** $8/each **10+:** $6/each
USB adapter	Use the USB adapter for up to 100 pixels. Plug directly into any of our TCL controllers.	USB	**1 – 9:** $8/each **10+:** $6/each
USB power pack	small: 5,000 mAh, medium: 10,000 mAh, large: 20,000 mAh	small medium large	$20 $25 $30
USB to barrel	connect your TCL project to USB power		**$5**
5V 4A Power Supply	Plug this power supply into the wall and light up to **200 TCL 9813** pixels or**100 TCL WS2812** pixels. when you branch its power to the strands with our new Y Barrel Connector and two Power-T Connectors. Comes with a barrel connector.		**1 – 9:** $12 each **10+:** $10 each
DC to DC Converter	Convert any 12V-24V power supply (like your car battery or a lithium battery) to a 5V output, and you'll be able to run Total Control pixels. 5A will run up to **500 TCL 9813** pixels or **100 TCL WS2812** pixels. Be sure to hook it up correctly or you'll cook it.		$20
30A Variable Voltage Power Supply (0V – 12V)	Adjust the voltage on this 30A power supply to power projects that require 0V – 12V. AC power cord not supplied. You may also need raw barrel connectors and 4-core lead wire, depending on your project.		$45
6V 7Ah Sealed Lead-Acid Battery (Gel Cell)	For your extra large or extra bright projects, this 6V rechargeable battery keeps your projects running for up to 7 amp hours. It has an output of up to 2.1A and a voltage regulation of 7.20V – 7.45V in cyclic use. (Please Note: Sold at the shop or shipped by FedEx Ground only).		$20

**Please Note: Power needs to be boosted every 100 pixels using a Power-T Connector.
Add 6V of battery power or a 5V 2A AC power supply every 100 TCL 9813 pixels.
Or add a Y barrel connector + 5V 4A AC power supply every 200 TCL 9813 pixels.**

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TOTAL CONTROL LIGHTING:
Connectors & Extensions

These items allow you to create a TCL system in almost any configuration.
A complete system includes pixels, controller (TCL or Arduino), and a power supply.

Item	Description	Options	Price
Power-T Connector	Use these Power T-Connectors to boost power after every 100 pixels, for any power supply option that you're using.		$5
Y Data Splitter	Mirror your programs along any number of lines of TCL pixels with this data splitter: 2 female and 1 male 4-pin connector soldered in a T.		$5
4-pin Extension	This 1.5M extension (~60") lets you easily expand the distance between pixels and any of the other 4-pin connections in your TCL project. One male and one female 4-pin connector are at either end of this plug & play extension. Most projects will work well with up to 5 or more extensions end-to-end.		**1 – 9:** $5 **10+:** $4
4-pin Connector	Solder one of these raw Male or Female connectors onto spare TCL pixels to create new strands that are ready to glow. Buy 1 male and 2 female connectors to make a Y-connection. Connector sets are secure and waterproof.	Male Female	$1
Y Barrel Splitter	Used for branching the power of our 4 Amp Power Supply to up to 200 pixels. Plug each of the 2 Male barrel ends into Power-T Connectors and the Female barrel end to a 4A Power Supply. (Power-T Connector and Power Supply sold separately).		$5
Barrel Extension	Extend the reach of your power supply with this 46" extension. It has a male barrel connector on one end and a female barrel connector on the other. Works with all TCL power supplies (TCL pixels and RGB LED rolls).		$3
Barrel Connector	These Male or Female Barrel Connectors plug into any of our TCL Controllers or Power-T Connectors. 2-conductor with 18 AWG lead wire, stripped and pre-tinned.	Male Female	$1
Pro Controller RJ45 Channel Connector	If you purchase a Pro Controller and plan to use more than one channel, you'll need to get one of these connectors to attach your pixel strands to each additional channel you'll be using. (The Pro Controller comes with one connector free for the first channel).		$10

Total Control Lighting:
Accessories

Item	Description	Options	Price
9813 Chip	The brain behind the pixels. Available in either 5 VDC or 12 VDC.	5V DC 12 VDC	$1 / each $2 / each
SD Card	2 GB SD Card formatted FAT for either your Elite or Pro Controller		$5
Keebler Cubes	These faceted diffusers fit over individual Total Control bullet or square (9813) pixels to multiply each point of light. No tripping required!		$.25/each
Awesome Cube Faces	**New Item!** Laser-cut clear acrylic face with 25 holes for TCL bullet pixels. Easy to assemble into a four-to-six-sided cube.		$5/each

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RGB LED Strips: Pixels

The roll of LEDs is controlled as one pixel, with all of the LEDs changing color together.
A complete system includes a roll, a controller, and a power supply.
The RGB LED line uses flat 4-pin connectors

Item	Description	Options	Price
Single Density RGB LED strips	Single Density RGB LED Strips are sold in 5-meter rolls (~ 16 ½ feet) and have 30 LEDs per meter for a total of 150 LEDs. Choose between weatherproof (IP65) with silicon coating or uncoated (recommended for indoor use only). These RGB LED strips run on DC 12V using either house current or batteries (see power supplies below). The red, green, and blue in each Super Bright LED can be mixed into millions of colors with a controller. Up to two Single Density rolls can be controlled using one controller. Additional rolls will require an amplifier and extra power supply (sold separately). These rolls have a soldered flat 4-pin connector at both ends for easy plug&play. They can be cut at about every 4" to make shorter strips. Cutting a roll once requires no additional soldering; cutting it twice or more will require soldering for the middle segments. Connectors are also sold separately and can be soldered onto cut ends. These flexible strips are 3/8" wide and only 1/8" thick. A self-adhesive strip on the back allows for easy installation.	Silicon-coated IP 65 Uncoated	**on sale!** **$25** $100
Double Density RGB LED strips	Double Density RGB LED Strips are sold in 5-meter rolls (~ 16 ½ feet) and have 60 LEDs per meter for a total of 300 LEDs. Choose between weatherproof (IP65) with silicon coating or uncoated (recommended for indoor use only). These RGB LED strips run on DC 12V using either house current or batteries (see power supplies below). The red, green, and blue in each Super Bright LED can be mixed into millions of colors with a controller. Up to one Double Density roll can be controlled using one controller. Additional rolls will require an amplifier and extra power supply (sold separately). These rolls have a soldered flat 4-pin connector at both ends for easy plug&play. They can be cut at about every 4" to make shorter strips. Cutting a roll once requires no additional soldering; cutting it twice or more will require soldering for the middle segments. Connectors are also sold separately and can be soldered onto cut ends. These flexible strips are 3/8" wide and only 1/8" thick. A self-adhesive strip on the back allows for easy installation.	Silicon-coated IP 65 Uncoated	**on sale!** **$50** $200

RGB LED Strips: Controllers

The roll of LEDs is controlled as one pixel, with all of the LEDs changing color together.
A complete system includes a roll, a controller, and a power supply.
The RGB LED line uses flat 4-pin connectors

Item	Description	Options	Price
Short IR Controller with Remote Control Pad	This infrared controller lets you easily control the color, brightness, and dynamic patterns of your entire strip remotely with the touch of your finger. The Short (24-button) Controller gives you 16 pre-programmed colors; Flash, Strobe, Fade, and Smooth color-changing patterns; brightness levels; and and on/off button. Runs on DC 12V: use either an AC adapter or batteries + 12vDC input connector. Remote Control pad includes one CR2025 battery. Power supply sold separately.		~~$20~~ **$10**
Long IR Controller with Remote Control Pad	This infrared controller lets you easily control the color, brightness, and dynamic patterns of your entire strip remotely with the touch of your finger. The Long (44-button) Controller provides all of the options of the Short Controller plus: 4 additional pre-programmed colors, 2 additional color-changing patterns; levels of speed; and fine custom color control by independently adding and subtracting the proportions of Red, Green, and Blue. Runs on DC 12V: use either an AC adapter or batteries + 12vDC input connector. Remote Control pad includes one CR2025 battery. Power supply sold separately.		~~$30~~ **$15**
RF Music Controller with Remote Control Pad	**New Item!!** This RF Music Controller gives you two additional options for controlling your RGB LED strips -- with music/sound, and when you don't have a direct line of sight between your controller and remote control pad. Remote control buttons include an on/off switch, 9 static colors each with 5 levels of brightness, 3 color sequences each with different levels of speed, and 3 music/sound effects each with different levels of sensitivity. Runs on DC 12V: use either an AC adapter or batteries + 12vDC input connector. Remote Control pad includes one CR2025 battery. Power supply sold separately.		**$40**
Slim Controller	This super-sleek and amazingly versatile Slim Controller plugs into either the RGB LED strips or the 3-Channel LED strips to give you inline control over the pattern, blink rate, brightness, and channel/color. With the RGB LED strips, you'll be able to choose among 20 different static colors at 5 levels of brightness and 20 flashing or transitioning color patterns at 10 levels of speed. This Slim Controller has a flat female 4-pin connector on one end and a female barrel connector at the other. It runs off DC 5V - 24V, so it's compatible with both 12V systems like the RGB LED strips (use a 12vDC input connector and an 8AA battery cage or 12V AC power supply) and 5V systems like the 3-Channel Strips (use a 5V power supply).		~~$20~~ $15
3-Channel Dimmer	This dimmer independently dims Red, Green, and Blue to achieve exactly the color you want. Runs on 12vDC. Power supply sold separately.		$35

RGB LED Strips: Power Supplies

Item	Description	Options	Price
RGB LED Amplifier	This amplifier allows you to run more than two single density or more than one double density RGB LED rolls end-to-end with full brightness using a single controller. Just connect a DC 12V power supply to its plug & play input.		$30
AC 12V Switching Power Adapter	**New 5A Option!** These regulated AC 12V Power Adapters plug into a wall socket, letting you power your DC 12V RGB LED strips and controllers with 110v AC house current. No batteries needed!	3A 5A	$15 $20
8 AA Battery Cage	For amazing portability, use this 8AA battery cage with a 12vDC input (sold separately) to power your RGB LED strips with battery power. A 9v snap on one end plugs easily into the 12vDC connector.		$2
12V 8Ah Sealed Lead-Acid (Gel Cell) Battery	For extra large or bright projects, this 12V rechargeable battery keeps your RGB LED strips running for up to 8 amp hours. It has an output of up to 2.8A and a voltage regulation of 14.5V – 14.9V in cyclic use. (Please Note: Sold at the shop or shipped by FedEx Ground Shipping Only).		$30
Lithium Polymer Battery	Smaller than an 8AA battery cage and providing hours more light, these 11.1V rechargeable LiPo batteries are perfect for any 12 VDC project. Includes a free Voltage Alarm, which warns you with a deafingly loud beep long before your voltage enters the danger zone. Please Note: Because care is required in the maintaining and discharging of lithium polymer batteries, these batteries are not returnable.	2200mAh 3000mAh	$40 $45
30 A Variable Voltage Power Supply (0V – 12V)	Adjust the voltage on this 30A power supply to power projects that require 0V – 12V. AC power cord not supplies		$45
8AA deluxe battery cage	Enclosed 8 AA cage with bult in switch and barrel plug		$8

RGB LED Strips: Connectors and Extensions
These items allow you to create almost any configuration.
The RGB LED line uses flat 4-pin connectors.

Item	Description	Options	Price
12vDC Input	To power your RGB LED project with batteries, use this 12vDC input connector. It attaches to any of the controllers above with a barrel connector on one end, and to battery supplies (sold separately) with a 9v battery snap on the other end.		$5
Y Data Splitter	**New Item!:** Run your programs along any number of RGB LED strips in parallel with this data splitter: 2 female and 1 male flat 4-pin connector soldered in a T.		$5
Flat 4-pin Connectors	Solder these raw Male or Female connectors onto cut segments of RGB LED strips to make them ready to glow. Or buy 1 male and 2 female connectors to make your own Y Data Splitter	Male Female	$1
Y Barrel Splitter	This Y Barrel Splitter lets you branch power to two RGB Controllers from a sufficiently large power supply.		$5
Barrel Extension	**New Item!** Extend the reach of your power supply with this 46" extension. It has a male barrel jack on one end and a female barrel jack on the other.		$3
Barrel Connector	These raw Male or Female Barrel Connectors plug into any of our RGB LED Controllers. 2-conductor with 18 AWG lead wire, stripped and pre-tinned.	Male Female	$1

For more information, including specs, pictures, videos, tutorials, and products not included in this catalog, visit www.coolneon.com, call us at (510) 547-5878, or email us at info@coolneon.com.

Olympic LED Strips

These strips run on DC 12V.
See the Power Supplies under RGB LED Strips on p23 for the full range of power options.

Item	Description	Options	Price
Single Density Olympic LED Strips	These 5-meter rolls have 30 super-bright LEDs per meter and run on DC 12V. The strips are encased in a weatherproof (IP65) silicon sleeve -- with no adhesive backing -- and have raw leads on both ends.	Cool White Warm White Blue Green Yellow Red	$30
Double Density Olympic LED Strips	These 5-meter rolls have 60 super-bright LEDs per meter and run on DC 12V. The strips are encased in a weatherproof (IP65) silicon sleeve -- with no adhesive backing -- and have raw leads on both ends.	Cool White Warm White Blue Green Yellow Red	$60
Twinkle Controller	**New Item!** An infrared controller with Remote Control Pad that lets you dim your LEDs at 10% increments or with fine +/- adjustments. Also provides a flash option. A male barrel jack connects to the Olympic LEDs (which need a female barrel connector soldered on); a female barrel jack is the input for the power supply		$20
Y Barrel Connector	These can be used in any combination to attach many strips to 1 power supply.		$5

3-Channel LED Strips

The 3-Channel LED line uses flat 4-pin connectors and runs on DC 5V.
See the Power Supplies under Total Control Lighting on p19 for the full range of power options.

Item	Description	Options	Price
3-Channel LED Strips	These super-sleek LED strips have tiny LEDs controlled in 3 channels, offering an amazing variety of chasing and blinking patterns for . Each strip is 1-meter long and can be attached end-to-end with its flat 4-pin connector. They're super-thin, so they're perfect for projects whose lighting you want to be bright but hidden or weightless. These uncoated strips would need to be protected for outdoor use. Use with the Slim Controller and Total Control Lighting DC 5V power supplies.	Red Yellow Green Blue White	$20/strip
Slim Controller	This tiny controller plugs inline into the 3-Channel LED Strips and offers an amazing variety of chasing, blinking, and dimming patterns. It has a flat 4-pin connector on one end and a barrel connection on the other end. It runs on DC 5 – 24V and can work with both the 3-Channel LED Strips and DC 12V projects like the RGB LED strips.		~~$20~~ $15
Y Data Splitter	These can be used in any combination to attach many 3-Channel LED strips to one controller.		$5

More Connectors and Extensions for the 3-Channel Strips
can be found under the RGB LED line on page 23.

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Thin and Bright LED strips
super bright and dense LED strips

	Description	Options	Price
1 meter strips	Come with a female barrel connector at one end. You can cut and re-solder them or add extensions every inch on the cut marks. Multiple strips can be plugged into our Y barrel connectors and branched back to a single 12v power supply. With our Twinkle controller you can remotely dim these and flip through a few blink and breathing patterns.	pink green blue red yellow aqua cool white warm white	**1-9:** $20 each strip **10+:** $15 each strip
5 meter rolls	Come with a female barrel connector at each end. *In order to run these at full brightness you will need to power it at both ends.* You can cut and re-solder them or add extensions every inch on the cut marks. Multiple strips can be plugged into our Y barrel connectors and branched back to a single 12v power supply. With our Twinkle controller you can remotely dim these and flip through a few blink and breathing patterns.	green red purple blue pink yellow cool white warm white	**1-4:** $80 each roll **5+:** $70 each roll

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LED Rope Lights

Item	Description	Options	Price
12vDC LED Rope Light	These rope lights create an attractive ambient glow much brighter than our Cool Neon wire! Made especially for us, they bring a sense of warmth and beauty into any indoor or outdoor atmosphere using only a 12vDC current! (12v DC power connector sold separately, below). Power supply options (sold separately) include an 8AA battery cage, a 12v sealed lead-acid battery, your car battery, or the Driver Max Regulated power supply if you'd like to use an outlet. Sold and cut by the meter (3ft 3in section). Order as many meters as you like; they come as one continuous piece, up to 330 feet. **Color notes:** Red -- deep and vibrant Yellow -- glows the sweet amber of a sunset Blue -- near ultraviolet, will illuminate fluorescent colors and even your teeth! Green -- intense, will wash an entire room in a deep glow White -- an extremely pure snow white Purple – vibrant and festive	Red/Yellow Blue/Green/ Warm White/ Cool White and now in Purple!	$5/meter $8meter
110v AC LED Rope Light	Same colors as above, these rope lights plug directly into a wall outlet with the 120V power connector below (sold separately).	Red/Yellow Blue/Green/ Warm White/ Cool White and now in Purple!	$5/meter $8/meter
Twinkle Controller	**New Item!** An infrared controller with Remote Control Pad that lets you dim your LEDs at 10% increments or with fine +/- adjustments. Also provides a flash option. A male barrel jack connects to the Olympic LEDs (which need a female barrel connector soldered on); a female barrel jack is the input for the power supply. Runs on DC 12V.		$20
Rope Light Power Connector	These power connectors are highly recommended for EACH segment of LED Rope Light you'll have in your project. They allow you to connect the Rope Light to either 12vDC (through a 9v snap) or 110vAC (through a wall plug) without any soldering. Water resistant and very secure with a 1-meter lead.	12vDC Black Cord 110v White Cord	$5
AC 12V 5A Switching Power Adapter	**New Item!** These regulated AC 12V 5A Power Adapters plug into a wall socket, letting you power your DC 12V Rope Lights with 110v AC house current. No batteries needed! These power adapters use a barrel connector, so make sure that either your Rope Light Power Connector has a barrel connector or that you purchase a 12vDC input connector (p23) in addition to your Rope Light Connector.	5A	$20
Joiner	This little unit connects one section of rope light to another in a single line.		$1

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LED Bulbs

Item	Description	Options	Price
3-Watt RGB LED Bulb with Remote Control	In a category all its own, this amazingly bright RGB bulb screws into a standard socket and can be controlled wirelessly with its remote control pad. Sit back and enjoy the glow of any color you like or select one of its mesmerizing color-changing patterns. Remote control pad included.	Dome	**on sale!** ~~$45~~ **$22.50**
5W White LED Bulb	These super bright 5W LED bulbs screw into a standard socket. Choose between warm and cool white. Perfect for replacing any light in your house, we highly recommend them. Satisfaction guaranteed. Please Note: not dimmable.	Cool White Warm White	$10

Loose LEDs

Item	Description	Options	Price
Common-Anode RGB LED	Each 5mm frosted/diffused LED contains a separate Red, Green and Blue LED chip inside! These are the LEDs used in our Total Control Lighting Pixels, but loose and soldered. Common-Anode LEDS have 4 pins. Connect one pin to 5V and use the other three legs (each for the Red, Green, and Blue) to ground through a resistor. By mixing the Red/Green/Blue light to any color combination, you can control each LED to be whatever color you want.		**1 – 99:** $1.00 **100 – 999:** $0.70 **1000+:** $0.40
Loose Colored LEDs	Personally selected for their color, these loose LEDs run on CR2032 batteries. Ice Blue Purple Blue: 7000 - 10,500 MCD's Red: 3,000 - 4,000 MCD's WL:605-630 Green: 10,000 - 15,000 MCD's Warm and Cool White: 15,000 - 18,000 MCD's Yellow: 3000 MCD's Ultra Violet WL: 400-405	Ice Blue Purple Blue Red Green Warm White Cool White Yellow Ultra Violet	**1 – 24:** $0.50 **25+:** $0.45
Loose RGB LED	With a built-in chip on board, these 5mm units smoothly transition from Red to Green to Blue with all the permutations in between. An absolutely beautiful base for any project. While supplies last! Standard T 1-3/4 clear package with leads. Operates on 3.5 vdc @ 40 mA. **2 Speed Options**: **Fast** (faster than 1/sec.); **Slow** (about once every 3 secs.).	Fast Slow	**Fast / Slow** **1 – 24:** $1.00 **25+:** $0.80
1 Watt LED	Blinded by the Light! Amazingly bright 1 watt LEDs for any project that requires more beautiful bright white light coming out of a single LED than you can imagine. They operate best at 3-3.3 VDC at 300-330 mA. Each unit is mounted on its own heatsink, so they remain thermally stable. Four linked in series is ideal for 12 volt projects.		$5.00

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Lasers

Item	Description	Price
Ultra-Violet Mini Light	ID fake teeth, counterfeit bills, and all those fake credit cards with this mini blacklight. Unlike much of its competition, it's the correct nanometer for optimum illumination. Comes with chain/clip and carrying cord.	$8
Red Laser	New Item!	**$50**
Green Laser Pen with 5 Heads	This star-burst laser pen comes with 5 interchangeable pattern heads that can rotate or stay fixed to project thousands of moving green dots in brilliant color and effect. Fits in your pocket. 3 AA batteries included. **On Sale!**	**$42.50** $85
Blue-Violet Laser Pen	At 405 nm wavelength, this unique Blue-Violet Laser Pen creates a halo effect when its point hits an object. It also illuminates fluorescent materials with such density in UV energy that it's the first laser pen you can actually draw with! Continuous wave (not pulsed) output. 2 AAA batteries included.	$85
Pocket Laser Light Show	The most portable laser light show ever, this fits in the palm of your hand and projects a spectacular array of spirograph designs on your wall, ceiling, or playa dome! Runs on 3 x AAA batteries.	$18
Silver Party Bullet	This laser projector fills an entire room with thousands of crazy-bright green and red points in moving patterns. Flashes to sound with variable sensitivity through its built-in microphone.	$60
Laser Star Projector	This projector transforms any room into your own animated universe with thousands of stars, optional cloud formations, and even the occasional shooting star across the night sky. Two built-in, precision glass lenses, green laser and holographic technology. AC Adapter included: just plug it in.	$150

Light Boxes

Item	Description	Price
Technicolor Light Box	This 9" x 9" eye-catching display runs on an AC Power Adapter (included) and contains 9 color morphing cubes that ebb and flow through a mesmerizing display of LEDs.	$35
Deluxe Technicolor Wall Box	This nearly 30" x 30" wall box comes with a remote control pad, allowing you to manipulate the colors, patterns, speed, and even response to music of its 9 squares! Pause on your favorite pattern or let it do its thing -- it will give you endless delight. Includes an AC plug and wall mounts.	$300
Deluxe Technicolor Light Box	The 31 triangular cells in this nearly 16" x 16" light box slowly morph through every color of the rainbow about every 5 seconds. Each RGB LED cell has slightly different timing, so the pattern never repeats. Comes with an AC plug and wall mounts. Can also be set on a table or shelf.	$80
Super Deluxe Technicolor Light Box	The Super version of the Deluxe Technicolor Light Box above, this unit has over 60 triangular cells, each with its own color-changing RGB LED. When you plug this display in, you'll be hypnotized at how beautifully the color triangles change and flow. Comes with an AC plug and wall mounts.	$120
RGB LED Photo Frame	This 7 ¾" x 5 ¾" frame holds 4"x6" photos in place with tiny, powerful magnets. LEDs inside allow edges to glow red, blue, and green in a soothing pattern. Comes with an AC adapter.	$15
Small LED Photo Frame	This 9" x 7" frame holds any size photos up to the size 5 3/4" x 7 1/4" in place with tiny, powerful magnets. The screen is illuminated by soft, white LEDs that will draw attention to but not outshine your favorite photos. Comes with an AC adapter.	$15
Large LED Photo Frame	This 8 1/2" x 11" frame holds any photos up to the size 6 3/4" x 9 1/2" in place with tiny, powerful magnets. The screen is illuminated by soft, white LEDs that will draw attention to but not outshine your favorite photos. Comes with an AC adapter.	$18

Arduino Boards, Shields, and Accessories

Item	Description	Price
Cool Neon Arduino Shield	The Cool Neon Shield was designed, developed, and produced by Cool Neon with the help of our amazing friends. It snaps into any Arduino board for instant Plug & Play compatibility. With it, you have total control over 2 - 10 Cool Neon strands (or groups of strands that share a channel), allowing for custom, fully-programmable patterns, sequences, and effects. The Shield has a built-in speed dial for on-the-fly control. It has an LED for each channel so you can see your program even before you light up your wire. You can even plug in the compatible Driver of your choice, allowing up to 330ft per channel or multiple channels to light simultaneously. This is the ultimate Cool Neon sequencer.	$75
TCL Simple Shield	The Simple Shield is the fastest and easiest way to connect an Arduino UNO to Total Control Lighting. It's just a shield with a female TCL Connector, with the Clock and Data already connected to pins 11 and 13. No Soldering, No Hassle! Just mount the shield and plug it into your strand.	$10
TCL Developer Shield	Our Developer Shield was designed specifically for Total Control Lighting projects and it turns out to be the perfect Arduino shield for countless others. It enables 2 momentary buttons, 2 two-position switches, and 4 potentiometers. Also, just like the TCL Simple Shield, it has our waterproof 4-pin TCL output connector and a barrel connector for power input. All Arduino hobbyists will love this!	$20
Awesome Developer Shield Kit	Slick and functional, this assembled kit includes an anodized box enclosing the TCL Developer Shield and the Seeeduino Atmaga. Mounting flanges make installation easy. Comes with a free USB cable. Awesome Developer Shield Box alone: $20 (comes with 7 screws)	$57.50
Seeeduino V3.0 / Atmaga 328p	Seeeduino is Arduino compatible board. Its design is based on Diecimila scheme, 100% compatible to its existing program, shield and IDEs. On the hardware part, remarkable changes are taken to improve the flexibility and user experience. **Pre-Program Options: Total Control Lighting (P9813 or WS2812), Cool Neon Arduino Shield or None**	$27.50
Pro Mini	**New Item!** The Arduino Pro Mini is a microcontroller board based on the ATmega328p that can communicate with a computer, another Arduino, or other microcontrollers. It can be programmed with the Arduino software and supports serial, 12C (TWI) and SPI communication. The board comes without pre-mounted headers, allowing you to use various types of connectors and direct soldering,	$10
FTDI for Pro Mini	**New Item!** FTDI unit for Programming the Pro Mini.	$15
Seeeduino Mega	In the pursuit of small form factor, flexibility and functionality comes Seeeduino Mega – derived from Arduino Mega it harnesses the power of ATmega1280 to spice up your project building experience.	$43
Mama Shield	Designed for high-speed prototyping, Mama shield has 5 slots, each with 36 pins. The slots contains all of the Arduino pins plus 8 shared bus pins. The bus pins allow cards to communicate between each other. The slots are placed at a pitch equal to a 0.5 inch standoff plus the thickness of a 0.062 inch circuit board. This allow you to fasten all the circuit boards together into a brick of circuit boards. The Mama Shield also has a switchboard so you can easily reconfigure the pin mapping. The switchboard can be used much like an old-style switchboard was used by a telephone operator to connect a call. There is also a row of jumper pins with the jumpers in case you want to keep everything the same.	$10
Seeeduino Film	Seeeduino FILM is an Arduino-compatible development platform for space-sensitive projects. It's flexible and super-slim, has a built-in Li-Po charger, and is great for wearable applications. FILM and other extension FRAMEs could be simply connected via the 20p universal bus like a chain. Native 2.54mm pitch pins also enable quick prototyping. ● Transform by cutting and chaining ● Fully-functional Atmega168 ● 0.1" pitch pad breakout ● Built-in charger circuit ● Reinforced to increase endurance	$30

Arduino Boards, Shields, and Accessories (cont'd)

Item	Description	Price
Seeeduino Frame – Sewing	Seeeduino Film for creating wearable application. Inspired by Arduino Lilypad, it's designed aesthetically, keeping your needs in mind. This makes Seeeduino Film platform not only flexible, but also rugged for daunting applications. All the I/O pins are accessible via the petals (large solderable pads). Two or three additional FPC connectors are available to connect to other Frames. There are optional pads for 2 x 3 pin header (for ISP) and 1 x 6 pin header (for supplying power and serial port programming) ● Rich Purple colored board. ● A robust attachment for a flexible platform. ● 17 large pads makes I/Os easily accessible. ● 17 drills makes sewing to fabric easier. ● A 20 pin FPC connector for connecting to Seeeduino Film. ● Two or three additional 20 pin FPC connectors for attaching additional Frames. ● A LED connected to PB4. ● A switch RESET. ● Sewing application. ● Flashy LED applications. ● Electronic textiles with EL-Wire. ● As a strong prototyping board for Seeeduino Film	$10
GPRS Shield	The GPRS (General Packet Radio Service) Shield is a new nonvoice value-added service that delivers GSM/GPRS 850/900/1800/1900MHz performance for voice, SMS, Data, and Fax in a small form factor and with low power consumption. It's controlled via AT commands (GSM 07.07 ,07.05 and SIMCOM enhanced AT Commands), and fully compatible with Seeeduino/Arduino and Mega. The GPRS Shield has 12 GPIOs 2 PWMs and 1 ADC(they're all 2V8 logic). Quad-Band 850/ 900/ 1800/ 1900 MHz ● GPRS multi-slot class 10/8 ● GPRS mobile station class B ● Compliant to GSM phase 2/2+ ● Class 4 (2 W @850/ 900 MHz) ● Class 1 (1 W @ 1800/1900MHz) ● Control via AT commands (GSM 07.07 ,07.05 and SIMCOM enhanced AT Commands) ● Low power consumption: 1.5mA(sleep mode) ● Operation temperature: -40°C to +85 °C	$60
DSO Nano v2	An upgraded version of the previous Nano with many improvements. The DSO Nano v2 is a Digital Storage Oscilloscope designed for basic electronic engineering tasks. Within its smart shell, the device runs on ARM Cortex™-M3 32 bit platform, provides basic waveform monitoring with extensive functions. It equips 320*240 color LCD, micro SD card storage, portable probes, LiPo Battery, USB connection and signal generator. Due to palm size and handy performance, it fits in-field diagnosis, quick measurement, hobbyist projects and wherever convenience matters. ● Scheme and source files are also open for re-innovating. ● Portable and lightweight ● Color display ● Waveform storage and playback ● 6 triggering mode ● 1Mhz Analog Bandwidth ● Complete measurement markers and signal characteristic ● Built-in Signal Generator ● Accessories available ● Open Source	$89

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LED Fantasia

ITEM	DESCRIPTION	OPTIONS	PRICE
Angel Tears	Tiny LEDs along 6+ feet of wire that look like suspended droplets of color. Runs on 3 AA batteries.	8 colors or RGB	$10
Angel Tears 10M	**New Item!** Droplets of LEDs along almost 33 feet of wire. Comes with a DC 12V connector that attaches to an 8AA battery cage (included). Works great with the Twinkle Controller (p24).	Blue, Purple, Red, Green, Pink, Yellow Warm or Cool White	$45
RGB Angel Tears 10M	**New Item!** The RGB Angel Tears cycle through a variety of patterns – no controller needed! Comes as a complete set that includes an 8AA battery cage and a DC 12V connector.	RGB	$65
Keebler Lights	Not your ordinary Christmas lights, Keebler Lights are strands of 20 LED bulbs each covered with a 16-faceted Keebler Cube, multiplying the color of each bulb into a constellation of light. Each bulb flashes between either red & blue or red & green. Strands measure about 13 feet in length. Choose between DC 12V or AC 110V. The DC 12V strand ends in a 9V battery snap that attaches to an 8AA battery cage or our 12V 1.2A power adapter (cage, batteries, and power adapter sold separately). The AC 110V strand ends in a plug for a standard outlet.	DC 12V AC 110V	$10
FUZE Necklace	A quartz stone radiates an iridescent aura of Red to Green to Blue light in soothing color. 2 battery sets (CR927) included.	Oval Tear Drop	$15
Magic Necklace	Like the FUZE Necklace, this radiates light from Red to Green to Blue. Includes a spare set of two CR927 batteries.	Star Heart	$10
Magic Ring	This Ring radiates light from Red to Green to Blue. Incl. spare CR927 batteries	Star Heart	$10
LED Programmable Name Badge	Program your own message and speed on this 21 x 7 Red LED Dot Matrix screen! Up to 50 characters held in long term storage. Slim black frame -- MAGNETIZED on the back. Runs on 1 CR2032 3V Lithium battery (2 included).		$20
Light Show Stick	3 LED-filled tubes radiate from a stick handle, sequencing through 32 patterns as they spin by motor to create a unique tie-dyed effect. 3AAA batteries incl.		$10
The Fantastic Hand-Held 2-Headed Light Show	The same amazing effects of the Light Show Stick mentioned above, but with 2 heads that spin perpendicular to the handle you hold onto. Metallic chrome shell. Includes 3AA batteries.		$16
Special FX Saber	This saber powers up and down with movie-quality light and sound effects, changing color interactively as you move or tap it.		$15
White-Lightning Stick	Lightweight and safe foam stick with 6 different RGB LED modes. 18” long. Batteries included. **In-store sale price: $5**; online price: $7.		$5
Glow Sticks	It's a rave toy, a flashlight, a whistle, and a flasher. And with replaceable batteries, it'll last as long into the night as you will. 7 ½" long x ¾: diameter.	Blue, Purple, Green, Red	$5
PodPoi	**New Item!** From the great, local company FlowToys, these gorgeous silicon pods are engineered with devotion to movement and light. Each poi can be adjusted by mode, color, speed, brightness, or pattern. Comes with a canvas carry bag, two micro-USB chargers, and an impressive lifetime warranty.		$100/pai
Astrojax: Blue Diamonds	A cross between juggling, lasso and yo-yo. Features super-bright Blue LED lights in the balls, as well as a Red UV-reactive neon string, allowing you to make awesome laser effects under black lighting! Switch the lights between off on, and disco mode. 9 x AG3 batteries included.		$20

LED Fantasia (cont'd)

Color-Changing Egg	Color Changing Egg morphs from one color to another. Also has an RGB LED Special Color-Locking Feature. 3 x AG13 batteries included.		$7
Flameless LED Candle Pair (2)	The LED Candle is the flameless alternative to the standard wax candle. Colorful light with a realistic flicker. Great for college dorm rooms which don't allow open flames! Even better for your Dome or Tent! Batteries included: Green/Blue -- CR2016. Others -- CR2032.	Flickering Amber Steady Red Steady Green	$5
Universe Wheel	Using LED light components and motion-activated sensors, a magnetized wheel travels around a "mobius strip" flipping around 180 degrees each revolution. A handheld toy or set on its motorized base.		$25
Non-Stop-Top	With a gentle spin, it soon picks up speed and keeps its balance-defying physics, gravity and logic for up to 8 hours Non-Stop! Add to this an LED light show that seems to change with every spin and watch as it bathes the room with magical wonder. 2 sets of CR2030 batteries included.		$15
LED Roller Blade wheel (1)	These generate their own power as you skate (minor drag) to light up Red, Yellow, and Blue LEDs in clear rubber wheels.	76mm 80mm	$9

Other Cool Products

(see our Showroom or Online Catalog for many more items)

Pocket Plasma	This glass, flat-panel disk creates an amazing display of plasma light in two modes: constant, or sound activated. Great for catching anyone's attention at a party or dance. Requires 2AAA batteries that will last nearly 3 nights!	Rainbow Lime Blue White	$20
Toroflux	An interactive flow toy, the Toroflux can morph from a flat set of rings to a torus that can flow from one arm to another. Comes with a carry pouch so you can take the party with you.		$20
BuckyBall Refills	216 powerful rare earth magnets each have two poles -- one side repels, the other attracts -- for unlimited shape-shifting and de-stressing to your heart's content! **Important Note:** Buckyball Refills must be kept out of the reach of children and are dangerous if ingested. With that said, enjoy!		$20
Gigglator	Record your voice or any sound, then roll, slide and shake the Gigglator to manipulate your voice to high or low pitch, stoccato, and everything in between! Or choose one of the 12 pre-recorded wacky sounds, voices, belches, laughs, and sound effects- and make them even crazier! Simple to use.		$20
Sprite Bombs	SUPER POWERED party snaps, throwing them at a hard surface results in a loud pop and a flash as bright as a camera! Pack of 20		$1.50
Tarp Clips	Be a hero in your camp for just 25 cents and fix that flapping tarp! A pair of tarp clips will replace broken grommet holes or guy out loose tarp. Great for playa gifts!		$.25/pair
Set	Winner of 12 Best Game Awards. Lay out 12 cards at a time and race to find every set of 3. Age is no advantage, so play this card game with the entire family!		$10

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Bike Lights

While you can use nearly anything in our catalog to light up your bike, these items are made specifically to keep you and your bike safe and glowing in style.

Item	Description	Options	Price
Hokey Spokes	Hokey Spokes are unique bicycle safety lights that allow riders to display computer-generated images and custom text messages inside the spoke cages while riding at night. Turning one Hokey Spoke on sends a radio signal to the others so that all lights on one bike will be synchronized. If you have multiple bikes, they'll sync up also. ● High-intensity side visibility ● Additional back and front lighting ● Displays a number of designs ● Fits on virtually any wheel ● Uses 3 AA batteries per blade ● Waterproof design ● Weighs only 6 oz., including batteries. ● Only 7 mph speed is required for full image persistence (using 3 blades) ● Lasts up to 48 hrs on a set of fresh batteries	White Blue Rainbow Green Yellow Orange Red	$29
Monkey Lights M204	The newest creation from the great engineers at MonkeyLectric brings you their smallest, lightest, most efficient bike light. The M204 displays two brilliant rings of light on your spinning rim with 4 ultra-bright LEDs strapped to your spokes. Choose from 5 themes and 8 colors. 3AA batteries mounted on the hub provide up to 60 hours of visibility and wheel balance. Waterproof, rugged, and light weight. Made in USA.		$26
Mini Monkey Lights M210	With 10 ultra-bright LEDs strapped to your bicycle spokes, the Mini Monkey Light provides great visibility for bike commuters, cyclists, and bike partiers. With on-board buttons, you can choose from 15 patterns in 16 different colors for hundreds of combinations. 3AA batteries mounted on the hub provide up to 40 hours of visibility and wheel balance. Waterproof, rugged, and light weight. Made in USA.		$50
Monkey Lights M232	There's just nothing comparable. 32 full-color, ultra-bright LEDS display 48 themes in hundreds of color combinations. Made in the USA, the Monkey Light M232 is waterproof and comes with a 2-year warranty. The 3 AA battery holder mounts on the hub for a balanced wheel and provides up to 20 hours of run time. Full patterns are visible at 10+ mph. Fits 20" and larger bicycle wheels. Includes an anti-theft strap and 5 cable ties for mounting. Made in USA.		$75
Solar Bicycle Tail Light	You may never have to turn this off! 2 Super Bright Red LEDs charge during the day and run 4 hours in lighting mode and more than 8 hours in flash mode at night. Easily slips on and off its bracket. Playa tested and passed!		$20

Photons

Personal Safety Lights

Item	Description	Options	Price
Photon Freedom	This personal flashlight features intuitive, single-button operation for: ON/OFF; full brightness control; slow, medium, fast, and SOS beacons; and Morse Code signaling. Two replaceable CR2016 lithium batteries included! Waterproof.	White	$20
Photon Micro-Light II	Visible over 1 mile! Squeeze the button for intermittent use or use the on/off switch for hands-free light. Built to survive serious use. Lithium batteries included.	White Yellow	$18
Photon Micro-Light III	Activated switch with 7 modes. 3 levels of brightness, 3 levels of strobe auto shut-off. Lithium batteries included.	White Yellow	$24

For more information, including specs, pictures, videos, tutorials, and products not included in this catalog, visit www.coolneon.com, call us at (510) 547-5878, or email us at info@coolneon.com.

Energy: Batteries

Item	Description	Price
AA	Quality Alkaline Batteries. They may not be the best you can buy, but we like the quality, making them perfect for the price. (Camelion Brand)	1 – 23 @ $0.45 24 + @ $0.35
AAA	Quality Alkaline Batteries. They may not be the best you can buy, but we like the quality, making them perfect for the price. (Camelion Brand)	1 – 23 @ $.50 24+ @ $0.40
9V	Single 9V battery for when smaller is better.	$2
6V 7Ah Sealed Lead-Acid Battery (Gel Cell)	For your extra large or extra bright projects, this 6V rechargeable battery keeps your projects running for up to 7 amp hours. It has an output of up to 2.1A and a voltage regulation of 7.20V – 7.45V in cyclic use. (Note: Pick up or ship by FedEx Ground only).	$20
12V 8Ah Sealed Lead-Acid Battery (Gel Cell)	For your extra large or extra bright projects, this 12V rechargeable battery keeps your projects running for up to 8 amp hours. It has an output of up to 2.8A and a voltage regulation of 14.5V – 14.9V in cyclic use. (Please Note: Sold at the shop or shipped by FedEx Ground Shipping Only).	$30
Lithium Polymer Battery	Smaller than an 8AA battery cage and providing hours more light, these 11.1V rechargeable LiPo batteries are perfect for any 12 VDC project. 2200mAh or 2700mAh. **Now comes with free Voltage Alarm**, which warns you long before the voltage drops too far! **Please Note:** LiPo batteries require special care in their charging and use. These are of the highest quality and work perfectly in all of our projects, but are not returnable.	$40 (2200mAhh) $45 (3000mAh)
AG1 (1.5v)	Comes in a pack of 10 to keep your lights glowing for many hours!	$2
AG3 (1.5v)	Comes in a pack of 10 to keep your lights glowing for many hours! Replacement batteries for your Astrojax and Boing-Swing.	$2
AG13 (1.5v)	Comes in a pack of 10 to keep your lights glowing for many hours! Replacement batteries for your White Lightning Stick, Fire Stix, Ultra-Violet Mini Light, Cool Neon Necklace, Color Changing Egg, Geodelic Sparkle Sphere, Flying Saucer, and LED Faucet.	$2
CR 927 (3v)	A pack of 6 lithium batteries to keep your Fuze or Magic Necklace glowing for many hours!	$2
CR 2016 (3v)	A single lithium battery to keep your white Photon Micro-Lights glowing for many hours!	$1
CR 2025 (3v)	A single lithium battery to keep your RGB LED Remote Control Pad running for many hours!	$1
CR2032 (3v)	A pack of 10 lithium batteries for your SuperFreq Drivers and Funlights, Loose LEDs, LED Candles, EClips, Yellow Photon MicroLights, LED Name Badge, and Non-Stop Top.	$4.20
ZAP! Universal Recharge-it-all Battery AA Power Pack	Zap! is a renewable, on-the-go power source for your mobile electronic devices. Power or charge most portable devices with its USB cable and 8 cell/media power tips. Its own 4 rechargeable AA batteries means you can also recharge your batteries without an AC outlet at all. Fits in a pocket or purse. 110/220v AC adapter and leather carry case included.	$29
Charger	**New Item!** This wall charger can be used to recharge either 6V or 12V rechargeable batteries, like the sealed lead acid batteries above. Input: 120VAC, 60Hz, 100mA. Output: 6V/12VDC 500mA. Comes with alligator clips installed.	$20

BUT THAT'S NOT ALL!! See our website for many more amazing items.

Funhouse Creations, Inc. Ordering Form

*How did you hear about us?*_____ *Project:* _____

Name:	
Phone #:	
Email:	
Shipping Address:	

Quantity	Item Name and Options (include color choice, thickness of wire, etc)	Unit Price	Total

Tax for shipping to California addresses only: 7.5% CA; 9.5% Oakland only

$8 for FedEx Ground; free for online orders > $100; NO signature required on delivery.
FedEx Express Shipping Options available for 48 states only:
3-day -- $20; 2-day -- $25; overnight -- $35
PO Box addresses must use USPS; see coolneon.com for other shipping options

Return Policy: Refund or exchange for stocked products returned for any reason within 15 days and in "as new" condition (10% restocking fee for cut wire)

Subtotal: _____
+
Tax: _____
+
Shipping: _____

TOTAL: _____

Credit Card Information
Type: VISA / MC / AMEX / DISC
Number:
Expiration Date: **CVN:**
Name as it appears on the card:
Billing Address (if different from above):

Date: _____ - _____ - _____

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