

Firefly Magic® Firefly Lights



2006

Product Catalog

Sigma Two Group LLC

contact@fireflymagic.com

877-8-FIREFLY - 877-834-7335

Firefly Magic® Firefly Lights

Product Catalog

Table of Contents

<ul style="list-style-type: none">• Introduction to Firefly Magic Firefly Lights• Solar Powered Firefly Magic Lights• Transformer Powered Firefly Lights• Battery Powered Firefly Lights• Indoor 110 Volt wall outlet Powered Firefly Magic Firefly Lights• Accessories• Custom Options• Mail Order Form• FAX Order Form	<p>Page 2 Page 3 Page 4 Page 5 Page 6 Page 7 Page 8 Page 9</p>
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Contact Information

Firefly Magic® Firefly Lights designed and manufactured by:

Sigma Two Group LLC
13009 Rincon Road
Apple Valley, CA 92308

877-8-FIREFLY
(877) 834-7335
(760) 240-6323

www.fireflymagic.com
contact@fireflymagic.com

California Contractor No. 493574

- Patent Pending
- Firefly Magic® is a registered trademark of Sigma Two Group LLC

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Firefly Magic® Firefly Lights

Introduction

Now you can bring the wonder, excitement, and magic of Mother Nature's fireflies into your customers' yard, garden, or other setting with the amazing Firefly Magic® firefly lights. So unique and accurate in the way these lights replicate the size, color, flashing, flickering, fading, and glow of real fireflies that patents are pending on their operation.

Designed for quick and easy installation, Firefly Magic® firefly lights are manufactured with generous lengths of dark brown, UL approved sunlight resistant wire for each individual electronic firefly. The ability to shape, twist, and bend this special wires allows the fireflies to be blended seamlessly into any landscape environment. With proper installation, the fireflies can also move with breezes, creating a life-like effect.

For installation flexibility, the low voltage Firefly Magic® firefly lights come in three different power supply versions, solar powered, 12 volt transformer powered, and battery powered for temporary or semi-permanent installations. Each of these versions comes in 7 firefly and 12 firefly models. Models with 7 fireflies have a 20' span, and 12 firefly models span a full 24'. Custom wire lengths are also available.

The microprocessors, or 'electronic brain' that controls the flicker, flash, and fade of each individual Firefly Magic™ firefly are sealed in a waterproof ABS UL case for the transformer and battery powered models, insuring the microelectronics will last for many years. The Solar powered models have the microelectronics mounted inside a black-plastic garden lantern fixture with an integrated solar panel.

Each electronic firefly light will last for more than 100,000 hours, supplying many years of magical firefly fun and enjoyment to families, friends, and guests. And, because these special electronic fireflies do not generate heat, they can be safely placed almost anywhere.

There are more than 2000 species of fireflies in the world, and over 200 in the United States, with each variety having its own distinctive flash rate and color. Standard Firefly Magic® firefly lights replicate the Arthropoda: Insecta: Coleoptera: Lampyridae: Photuris by emitting a dominant wavelength at 570 nanometers of light, which appears as lime-green in color to most viewers. Other firefly colors are available (see Custom Options page in this catalog).

For custom residential or commercial designs, Sigma Two Group LLC can design and create unique firefly lighting systems to meet any special requirements, for both outdoor and indoor operation. Sigma Two Group LLC is a licensed California contractor for Specialty Low Voltage Systems - No. C7-493574.

Installation instruction, installation tips, commercial installations, and more information is available at the www.fireflymagic.com Website.

Manufactured to the highest standards for years of trouble-free performance, Firefly Magic® firefly lights have a full two-year limited warranty. Warranty statement is available at www.fireflymagic.com

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Firefly Magic® Solar Powered Firefly Lights

Designed for installation in outdoor environments where sunlight is available, Solar Powered Firefly Magic® lights can be setup quickly and easily.

Firefly Magic® Solar Powered firefly lights are powered by 2 - AA Nickel Cadmium rechargeable batteries contained in a black plastic garden lantern fixture with solar panel for recharging. The AA Ni-Cd batteries will operate the Firefly Magic® lights continuously for 24 months if solar panel receives direct sunlight for approximately 3 hours each day. The unit will operate effectively for one-week with limited sunlight.

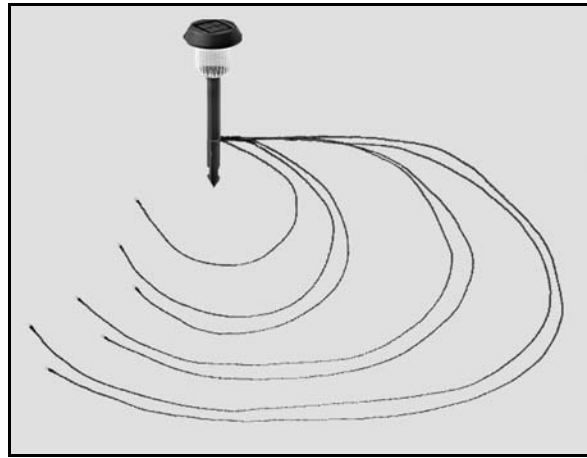
Firefly Magic® 'firefly' wires are UL standard 13 and 444, NEC Articles 725 and 800 - listed C (ETL) US CM/CL2 Sunlight Resistant - CMH OUTDOOR - CMH FT1 rated. The wires are dark brown in color to blend seamlessly into landscaping.

Firefly lights are 3mm (approximately 1/8") diameter light emitting diodes that operate at ambient temperature and are matched to real firefly colors with an operational life in excess of 100,000 hours. Each 'firefly' is heat sealed for effective weatherproofing.

FMS-07

- 7 - 20AWG solid CM/CL2 wires with 3mm 'firefly' at the end of each wire
- Wire lengths:
 - 2 ten foot (10') wires
 - 2 eight foot (8') wires
 - 2 six foot (6') wires
 - 1 four foot (4') wire
- Maximum wire span: twenty feet (20')
- Total wire length: 52'
- UPC: 82791201413 6

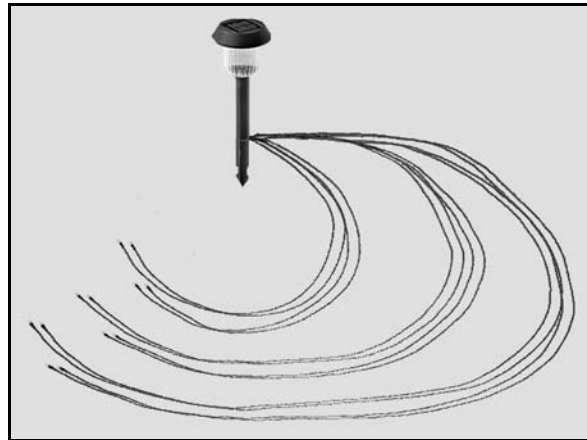
NOTE: Lantern fixture is not designed to light



FMS-12

- 12 - 20AWG solid CM/CL2 wires with 3mm 'firefly' at the end of each wire
- Wire lengths:
 - 2 twelve foot (12') wires
 - 2 ten foot (10') wires
 - 2 eight foot (8') wires
 - 2 six foot (6') wires
 - 2 four foot (4') wires
 - 2 three foot (3') wires
- Maximum wire span: twenty feet (24')
- Total wire length: 86'
- UPC: 82791201414 3

NOTE: Lantern fixture is not designed to light



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Firefly Magic® Transformer Powered Firefly Lights

Designed for connection to an already installed UL, listed 12 Volt AC, landscape lighting transformer powered system.

Firefly Magic® Transformer Powered firefly lights are powered by 12 Volts AC with the microelectronic control circuitry housed in a 1-7/8" diameter x 2" long .130" ABS housing. Power supply variation of plus or minus 3 volts is acceptable.

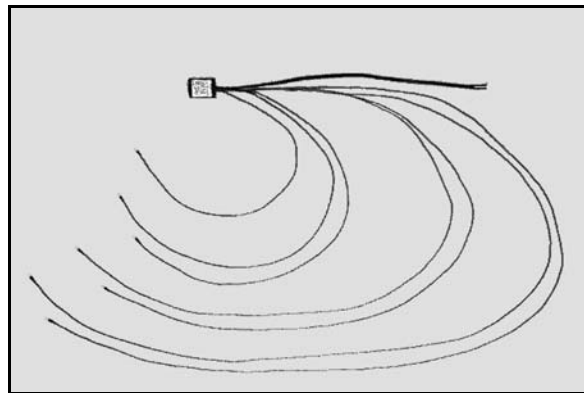
The Firefly Magic Transformer Powered unit connects to a 12 Volt AC power supply line using the attached 3' long, 16AGW CSA wire.

Firefly Magic® 'firefly' wires are UL standard 13 and 444, NEC Articles 725 and 800 - listed C (ETL) US CM/CL2 Sunlight Resistant - CMX OUTDOOR - CMH FT1 rated. The wires are dark brown in color to blend seamlessly into landscaping.

Firefly lights are 3mm (approximately 1/8") diameter light emitting diodes that operate at ambient temperature and are matched to real firefly colors with an operational life in excess of 100,000 hours. Each 'firefly' is heat sealed for effective weatherproofing.

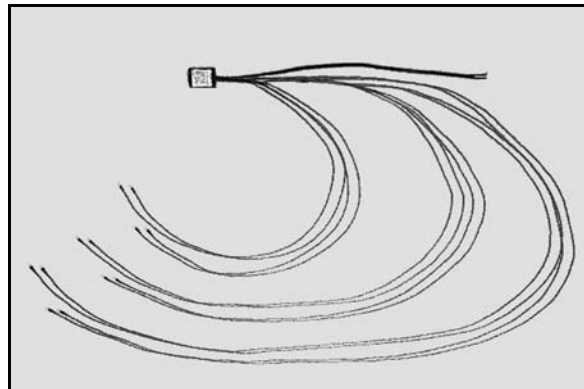
FMT-07

- 7 - 20AWG solid CM/CL2 wires with 3mm 'firefly' at the end of each wire
- Wire lengths:
 - 2 ten foot (10') wires
 - 2 eight foot (8') wires
 - 2 six foot (6') wires
 - 1 four foot (4') wire
- Maximum wire span: twenty feet (20')
- Total wire length: 52'
- Power usage: 2 Watts max
- UPC: 82791201409 9



FMT-12

- 12 - 20AWG solid CM/CL2 wires with 3mm 'firefly' at the end of each wire
- Wire lengths:
 - 2 twelve foot (12') wires
 - 2 ten foot (10') wires
 - 2 eight foot (8') wires
 - 2 six foot (6') wires
 - 2 four foot (4') wires
 - 2 three foot (3') wires
- Maximum wire span: twenty feet (24')
- Total wire length: 86'
- Power usage: 4 Watts max
- UPC: 82791201410 5



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Firefly Magic® Battery Powered Firefly Lights

Designed for temporary or semi-permanent installations, Battery Powered Firefly Magic® lights can be setup quickly and easily for parties, events, and special occasions. They are also used in areas where Transformer Powered or Solar Powered Firefly Magic® light installation is not feasible due to a lack of sunlight or AC power.

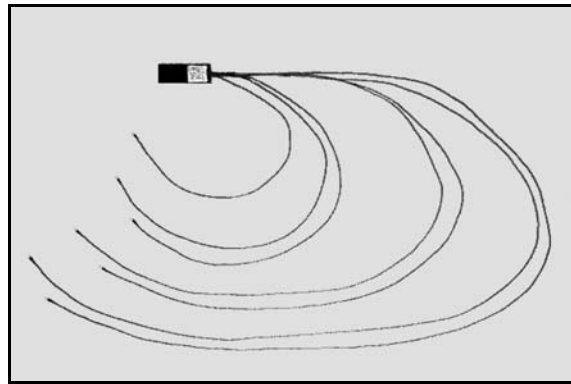
Firefly Magic® Battery Powered firefly lights are powered by 3 - AA Alkaline batteries contained in a 1-7/8" diameter x 4" long .130" ABS housing that also contains the microelectronic control circuitry. The 3 - AA batteries will operate the Firefly Magic™ lights continuously for approximately 60-90 days.

Firefly Magic® 'firefly' wires are UL standard 13 and 444, NEC Articles 725 and 800 - listed C (ETL) US CM/CL2 Sunlight Resistant - CMX OUTDOOR - CMH FT1 rated. The wires are dark brown in color to blend seamlessly into landscaping.

Firefly lights are 3mm (approximately 1/8") diameter light emitting diodes that operate at ambient temperature and are matched to real firefly colors with an operational life in excess of 100,000 hours. Each 'firefly' is heat sealed for effective weatherproofing.

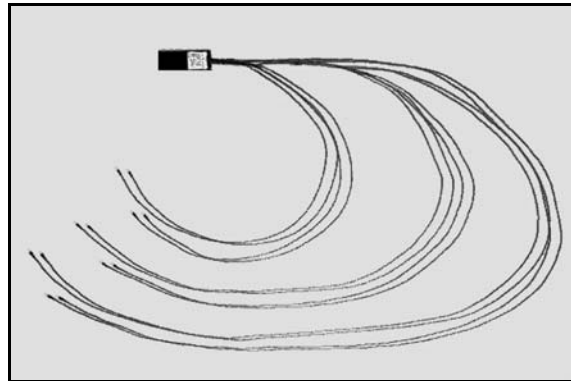
FMB-07

- 7 - 20AWG solid CM/CL2 wires with 3mm 'firefly' at the end of each wire
- Wire lengths:
 - 2 ten foot (10') wires
 - 2 eight foot (8') wires
 - 2 six foot (6') wires
 - 1 four foot (4') wire
- Maximum wire span: twenty feet (20')
- Total wire length: 52'
- UPC: 82791201411 2



FMB-12

- 12 - 20AWG solid CM/CL2 wires with 3mm 'firefly' at the end of each wire
- Wire lengths:
 - 2 twelve foot (12') wires
 - 2 ten foot (10') wires
 - 2 eight foot (8') wires
 - 2 six foot (6') wires
 - 2 four foot (4') wires
 - 2 three foot (3') wires
- Maximum wire span: twenty feet (24')
- Total wire length: 86'
- UPC: 82791201412 9



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Firefly Magic® Indoor 110 Volt Powered Firefly Lights

RISK OF SHOCK! FOR DRY INDOOR USE ONLY!

Designed for indoor use and plugs directly into a 110 Volt indoor wall outlet.

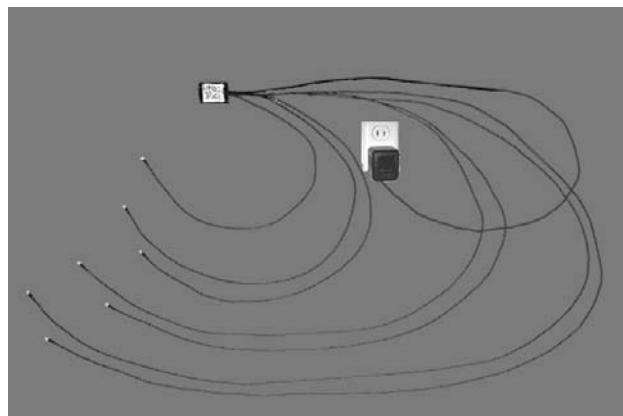
Firefly Magic® Wall Transformer Powered firefly lights are powered by 110 Volt AC wall transformer that connects through a 6' long black power wire to the microelectronic control circuitry housed in a 1-7/8" diameter x 2" long .130" ABS housing.

Firefly Magic® 'firefly' wires are UL standard 13 and 444, NEC Articles 725 and 800 - listed C (ETL) US CM/CL2 Sunlight Resistant - CMX OUTDOOR - CMH FT1 rated. The wires are dark brown in color to blend seamlessly into landscaping.

Firefly lights are 3mm (approximately 1/8") diameter light emitting diodes that operate at ambient temperature and are matched to real firefly colors with an operational life in excess of 100,000 hours. Each 'firefly' is heat sealed for effective weatherproofing.

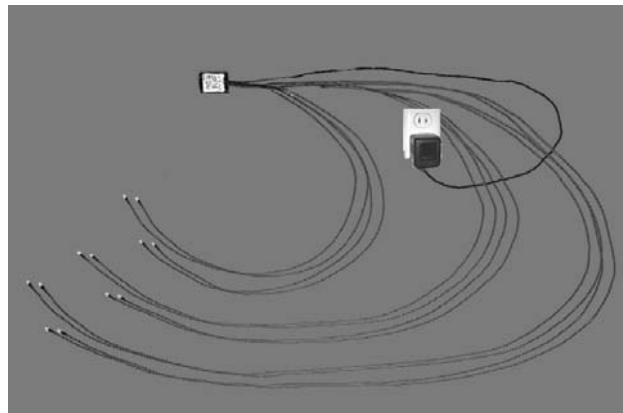
FMI-07

- 7 - 20AWG solid CM/CL2 wires with 3mm 'firefly' at the end of each wire
- Wire lengths:
 - 2 ten foot (10') wires
 - 2 eight foot (8') wires
 - 2 six foot (6') wires
 - 1 four foot (4') wire
- Maximum wire span: twenty feet (20')
- Total wire length: 52'
- Power usage: 2 Watts max
- UPC: pending



FMI-12

- 12 - 20AWG solid CM/CL2 wires with 3mm 'firefly' at the end of each wire
- Wire lengths:
 - 2 twelve foot (12') wires
 - 2 ten foot (10') wires
 - 2 eight foot (8') wires
 - 2 six foot (6') wires
 - 2 four foot (4') wires
 - 2 three foot (3') wires
- Maximum wire span: twenty feet (24')
- Total wire length: 86'
- Power usage: 4 Watts max
- UPC: pending



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Firefly Magic® Accessories

Designed to supply 60 Watts of power at 12 Volts AC, this UL Listed landscape lighting transformer can be used to power Firefly Magic® Lights outdoors or indoors. If customer does not already have an in-place low voltage landscape transformer, then this unit can be used to power all FMT model FIREFLY MAGIC™ Light sets.

T60W

- 60 Watt, 12 Volt AC Transformer UL Listed
- Timer for dusk-to-dawn, 4, 6, and 8 hour ON times
- UL Listed for outdoor use
- 3' 6" 12-2 SJTW cord
- Class 1 transformer
- Thermal cut-off on primary side
- Fuse on secondary side
- Will operate up to 20 FMT-12 light sets
- Will operate up to 30 FMT-7 light sets



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Firefly Magic® Firefly Lights Custom Options

<p style="text-align: center;">FIREFLY COLOR OPTIONS</p> <ul style="list-style-type: none"> • To ensure accuracy, Firefly Magic® identifies the color of fireflies using the electromagnetic spectrum measured in Nanometers wavelength of light. • The standard color for Firefly Magic Lights is 570 nanometers, which appears lime-green to most people • <i>Optional</i> colors include: <ul style="list-style-type: none"> • 590 nanometers, which appears yellow-amber to most people • 625 nanometers, which appears red amber to most people • <i>Custom</i> colors are available upon request. 	<ul style="list-style-type: none"> • Contact Firefly Magic® for <i>Optional</i> and <i>Custom</i> color pricing.
<p style="text-align: center;">FIREFLY WIRE LENGTH OPTIONS</p> <ul style="list-style-type: none"> • Custom wire lengths for 'fireflies' and power supply wire available upon request. 	<ul style="list-style-type: none"> • Contact Firefly Magic® for custom wire length pricing.
<p style="text-align: center;">FIREFLY FLASH RATE OPTIONS</p> <ul style="list-style-type: none"> • Firefly Magic™ 'fireflies' are factory programmed to flash, flicker, and fade at realistic rates that mimic Mother Nature's fireflies, as well as create a relaxing environment for residential back yards. • Faster flash rates can be programmed into Firefly Magic™ Lights at the factory for special applications such as: science exhibits, stage productions, and commercial venues such as restaurants, malls, hotels, or other areas in which visitors have limited viewing time to see the 'fireflies' flash. 	<ul style="list-style-type: none"> • Contact Firefly Magic™ for Custom Flash Rate pricing.
<p style="text-align: center;">FIREFLY SIZE AND SHAPE OPTIONS</p> <ul style="list-style-type: none"> • Standard Firefly Magic 'fireflies' are 3mm in diameter (approximately 1/8") which closely replicates the true size of the glowing 'lantern' of most species of firefly. • Also available is 5mm diameter 'fireflies' as well as rounded, square, and flat versions of the firefly lights. These variations can be used effectively in custom installations for both indoor and outdoor environments, including placement in fixed structures, such as walls. 	<ul style="list-style-type: none"> • Contact Firefly Magic® for Custom Firefly Size and Shape pricing.
<p style="text-align: center;">FIREFLY CONTROL OPTIONS</p> <ul style="list-style-type: none"> • For larger scale commercial systems, hundreds or even thousands of Firefly Magic® Lights can be installed and controlled through a centralized processor allowing on-site customization of fireflies' flash rates and colors. • Another unique Firefly Magic® capability is the creation of firefly movement that replicates the bobbing and weaving of real fireflies in flight. Utilized for permanent indoor installations, movement can be obtained by a variety of methods, depending upon the system design. These methods include aerodynamics, shape-memory-alloys, and nano-motor technology. 	<ul style="list-style-type: none"> • Contact Firefly Magic® for Control Option designs and pricing.
<ul style="list-style-type: none"> • Patent Pending • Firefly Magic® is a registered trademark of Sigma Two Group LLC <p style="text-align: center;">877-8-FIREFLY - 760-240-6323 contact@fireflymagic.com</p>	



Please Print, Complete, & Mail this Form with Your Payment

FIREFLY MAGIC® FIREFLY LIGHTS ORDER FORM

TODAY'S DATE _____

FIRST NAME _____ LAST NAME _____

STREET _____ APARTMENT or SUITE # _____

CITY _____ STATE _____ ZIP _____

PHONE _____ e-mail ADDRESS _____

ITEM(S) ORDERED:

FMS-07 - \$67.95 # of units _____	FMS-12 - \$87.95 # of units _____	\$ _____
FMT-07 - \$57.95 # of units _____	FMT-12 - \$77.95 # of units _____	\$ _____
FMB-07 - \$67.95 # of units _____	FMB-12 - \$87.95 # of units _____	\$ _____
FMI-07 - \$67.95 # of units _____	FMI-12 - \$87.95 # of units _____	\$ _____
T60W - \$42.95 # of units _____		\$ _____
Other _____		\$ _____

1) SUB-TOTAL of selected item(s) above **1) \$** _____

2) TAX - California residence Only - .0775% x Sub-Total Line #1 above. **2) \$** _____

3) Shipping Charge \$1-100 = \$9.95 • 100-175 = \$13.95• 175-250 = \$15.95 • 250-350 = \$17.95 • 350 & up = \$19.95 **3) \$** _____
NOTE: Use the Sub-Total amount on Line #1 above to calculate shipping cost

- INTERNATIONAL SHIPPING add \$20.95 to the standard Shipping Charge above to cover added costs

4) TOTAL **4) \$** _____*

* This should be the amount on check or money order

Comments or Special Instructions _____

Please complete this form and enclose your check or money order made out to "SIGMA TWO" in the amount on Line # 4 above. Mail this completed form along with your check or money order to:

Firefly Magic® - SIGMA TWO GROUP LLC
 13009 Rincon Road
 APPLE VALLEY, CA 92308

Upon receipt of this order, we will ship your product(s) within five (5) working days.

For any questions please call 877-8-FIREFLY (1-877-834-7335)



Please Print, Complete, & FAX this Form with Your Payment Information

FIREFLY MAGIC® FIREFLY LIGHTS ORDER FORM

TODAY'S DATE _____

FIRST NAME _____ LAST NAME _____

STREET _____ APARTMENT or SUITE # _____

CITY _____ STATE _____ ZIP _____

PHONE _____ e-mail ADDRESS _____

ITEM(S) ORDERED:

FMS-07 - \$67.95 # of units _____	FMS-12 - \$87.95 # of units _____	\$ _____
FMT-07 - \$57.95 # of units _____	FMT-12 - \$77.95 # of units _____	\$ _____
FMB-07 - \$67.95 # of units _____	FMB-12 - \$87.95 # of units _____	\$ _____
FMI-07 - \$67.95 # of units _____	FMI-12 - \$87.95 # of units _____	\$ _____
T60W - \$42.95 # of units _____		\$ _____
Other _____		\$ _____

1) SUB-TOTAL of selected item(s) above 1) \$ _____

2) TAX - California residence Only - .0775% x Sub-Total Line #1 above. 2) \$ _____

3) Shipping Charge \$1-100 = \$9.95 • 100-175 = \$13.95• 175-250 = \$15.95 • 250-350 = \$17.95 • 350 & up = \$19.95 3) \$ _____
NOTE: Use the Sub-Total amount on Line #1 above to calculate shipping cost

- INTERNATIONAL SHIPPING add \$20.95 to the standard Shipping Charge above to cover added costs

4) TOTAL 4) \$ _____*

* This should be the amount on check or money order

Comments or Special Instructions _____

Credit Card Type: VISA MC DISCOVER AE Card Number: _____

Expiration: ____/____ Security Code - 3 digit code in signature box on back of card: _____

When completed - FAX this form to 760-240-6323

Upon receipt we will ship your product(s) within five (5) working days.

For any questions please call 877-8-FIREFLY (1-877-834-7335)