

Aerial FX, Inc.

2020 Ordering Information

121 SE Turner Rd -Saint Joseph, MO 64504
Business Phone #: (816) 238-2800 e-mail: sales@aerialfx.com web: www.aerialfx.com

Discounts: Early Payment Discount

- Orders received and paid in full by April 15th will receive a 5% discount from your order total.

PLEASE READ CAREFULLY –Ordering Deadlines for 2020

In order to help facilitate a smoother pickup process during the 4th of July weekend, the following ordering deadlines are in effect for pickups at our satellite locations as well as for less than full case items. Please read carefully.

- **Open Stock Items (less than full case)** – all orders with single or less than full case items must be ordered by June 10th, 2020 All orders received after June 10th must be full case orders only.
- **Order Deadlines for pickups at our satellite magazines –**
- **Home Office - St. Joseph, MO - No order deadlines, although orders after June 25th will be taken at our discretion. Please order early.**
- **Perry, MO – All orders for pickup from late June through July at our Perry location must be received by June 1st, 2019**
- **Topeka, KS - All orders for pickup from late June through July at our Topeka, KS location must be received by June 10th, 2019.**
- **Lincoln, NE – All orders for pickup from our Lincoln, NE magazine must be received by June 1st, 2019**

Please Note – Mortars are be provided on a purchase only basis.

Mortars and mortar racks are available for purchase only - No loans or Deposits In order to focus on price and better service for order pickups, we are sorry to inform you that we will no longer provide mortars on loan. Supplies are limited and may not be available on short request. Especially close to July 4th.

Ordering Instruction

- Missouri residents – MO requires each display site to have a licensed MO pyrotechnician on site at all times. Info and training dates available at www.aerialfx.com. A signed copy of your local fire permit is required before we can release your order.
 - 25% payment required at time of order placement to secure all orders
 - Please give 48 hours notice before pickup in order to receive a pickup number for your order
- NO EXEPTIONS. We will not and cannot fill your order if you simply walk in without giving us advance notice and providing your pickup #.
- For more accurate orders, please fax or mail your order using the enclosed order form
 - Confirmation will be faxed or mailed to you within 48 hours
 - A signed Order/Release Form and Authorization for Pickup Form must accompany order before any order will be accepted.

Terms and Conditions

- All prices are F.O.B. Saint Joseph, MO or one of our listed storage magazines.
- Prices Valid through 2019 subject to change without notice.
- All product sold upon the condition that we, the seller, shall not be liable in any civil action for any arrest, accident, or injury occasioned during the transportation, handling, storage, sale, or use of product. All sales are final. Returns will not be refunded but may be stored for future use in Aerial FX ATF approved storage magazines.

ATF Requirements

- **All display firework customers must have an Explosives or Fireworks License or Permit from the Bureau of Alcohol, Tobacco, and Firearms. Residents Outside of the State of Missouri Must Have a Type 54 License**
- Display Fireworks must be stored in an ATF approved explosives magazine. If you do not have an approved magazine, please schedule your pickup the day of your fireworks display. Customers of Aerial FX will be allowed to store fireworks in our approved magazines in the event that your show is rained out, delayed, or postponed. We will only store product from Aerial FX unless given prior approval.
- Customers must be 21 years old to purchase Display Fireworks
- ATF Licenses: a photocopy signed in ink must be on file with us.

Local Permits

The State of Missouri requires all MO residents to have a letter of approval from the authority having jurisdiction for their display discharge location. No material will be released without a signed permit. No exceptions. Residents outside of these states are responsible for securing all of the necessary license and permits for their discharge location. Please contact our office should you have questions regarding paperwork required for order pickup.

PLEASE FILL OUT AND INCLUDE WITH ORDER

Aerial FX, Inc. Authorization/Pickup/Intended Use

121 SE Turner Rd, Saint Joseph, MO 64504

Please make sure that copies of all necessary licenses and permits are enclosed when ordering.

The undersigned are aware of the dangers of display fireworks and are willing to assume full responsibility for using these products. The undersigned specifically agrees that he/she will not hold liable the seller (Aerial FX, Inc.) for any claims that may arise from the use, storage, transportation, or resale of the seller's product.

This release is executed freely and voluntarily by the undersigned for the purpose of protecting the seller from future potential liability. The undersigned understands and acknowledges the significance and consequences of such specific intentions to release any and all future claims against the seller. This release is good for multiple transactions.

Name (Permitte): print or type _____

Address: _____ City: _____

State: _____ Zip: _____

ATF License # or Fed ID _____

Intended Use - Fireworks Display Other (explain) _____

| | |
|---|------------------------------------|
| Personal Authorized to Order Display Fireworks Must Submit the Following Information | Name: (print or type) _____ |
| | Birthplace: _____ Birthdate: _____ |
| | Address: _____ |
| | City: _____ |
| | State: _____ Zip: _____ |

| | |
|--|------------------------------------|
| Personal Authorized to Pickup Display Fireworks Must Submit the Following Information | Name: (print or type) _____ |
| | Birthplace: _____ Birthdate: _____ |
| | Address: _____ |
| | City: _____ |
| | State: _____ Zip: _____ |

Aerial FX, Inc. Order/Release Form

121 SE Turner Rd, Saint Joseph, MO 64504 - Phone: 816-238-2800

Order Early to Secure Your Order

Mail or Email Today.

Please make sure that copies of all necessary licenses and permits are enclosed when ordering.

Release Form: No Product will be released without this form.

Important: All product is sold and shipped upon the presentation by the buyer that the same will be used strictly in accordance with the laws of the state of destination. It is the buyers responsibility to be aware of the laws of the state of destination and to follow them. All product sold upon the condition that we, the seller, shall not be liable in any civil action for any arrest, accident, or injury occasioned during the transportation, handling, storage, sale, or use of product. The undersigned represents that he/she is aware of the dangers of fireworks and willing to assume full responsibility for using these products. The undersigned specifically agrees that he/she will not hold liable the seller (Aerial FX, Inc.) for any claims that may arise form the use, storage, transportation, or resale of the seller's product. This release is executed freely and voluntarily by the undersigned for the purpose of protecting the seller from future potential liability. The undersigned understands and acknowledges the significance and consequences of such specific intentions to release any and all future claims against the seller. All sales are final and refunds for product returns are not given, however Aerial FX will agree to hold any and all product purchased from Aerial FX in our ATFE approved storage magazines for future use by the customer. This release is good for multiple transactions.

Printed Name: _____

Signature: _____

Customer Information:

Individual, Organization, or Business: _____

Mailing Address: _____

City/State/Zip: _____

Phone: (Home) _____ (Work) _____

E-mail: _____

Credit Card #: _____ Exp. Date: _____ 3 digit Security Code: _____

() Visa () Mastercard () Discover () Amex Payment Amt. _____

Pickup Location

No delivery charge St. Joseph, MO ()

10% delivery charge Perry, MO () Lincoln, NE ()

5% delivery charge Topeka, KS ()

Pickup Date _____

Certification of Commerce Status

Individual, Company, or Pyro Club Name _____

Please initial one of the below statements and sign/date

_____ I am not in commerce. I only do personal shoots where no money is involved. I purchase my own fireworks and discharge them for my personal enjoyment and use.

_____ I am operating in commerce. My UDDOT # is _____ My HM safety permit is valid and expires on Date: _____

Printed Name: _____

Signature: _____ Date: _____

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Cakes

| Item # | Description | Tube I.D. | Case Packing | Price/Case |
|--------|--|-----------|--------------|------------|
| 103 | 25 Shot Thunder King (rising green tail to extra loud salute) | .75" | 12/1 | \$90 |
| 109A | 25 shot Variety Color w/Report (red tail crackling red peony;green tail crackling green peony; yellow tail crackling yellow peony;silver tail to white peony;purple tail to purple peony) | .5" | 4/1 | \$82 |
| 110 | 49 shot Silver Dragon (flights of screaming silver missles) | 1" | 4/1 | \$89 |
| 111 | 100 shot Thunder King (rising green tail to report) | 1/2" | 4/1 | \$116 |
| 112A | 40 shot Five Colorfull tail (8x5 fan - red tails, green tails, white tails, orange tails, crackling tails) | 1.2" | 2/1 | \$86 |
| 116 | 49 shot Fan Silver Crown & Blue Pearl - (z-shaped crackling tails to blue peal mines + 7 at a time crackle tails w/red tips to red tip crackling palms) | 1.25" | 2/1 | \$103 |
| 117 | 49 shot Horse tail pine + white glitter pistil | 1.2" | 2/1 | \$79 |
| 118 | 49 shot Z Gold line gold willow crossette | 1.2" | 2/1 | \$90 |
| 124A | 36 shot 2.5" Titanium Salute Fast Shot (4 seconds) (instant barrage of salutes - 36 - 2-1/2" salutes in 4 seconds) | 2.5" | 1/1 | \$140 |
| 125 | 36 shot Red, White, and Blue Brocade Crown - (25 shots of alternating glittering brocade to red, white,, and blue) | 2.5" | 1/1 | \$140 |
| 126 | 36 shots Crackling Willow | 2.5" | 1/1 | \$140 |
| 127 | 36 shots Golden Spider (repeating shots of 3" gold tail to gold spider webs) | 2.5" | 1/1 | \$140 |
| 129 | 36 shot Red, White, Blue Peony - (25 shots of alternating Red, White, & Blue Peony) | 2.5" | 1/1 | \$140 |
| 131 | 36 shots Silver Strobe+Red, Silver Strobe+Blue (great strobing patriotic cake - long duration strobes) | 2.5" | 1/1 | \$140 |
| 133 | 36 shot Titanium Salute w/R,W,Blue Tails - (barrage of red, white, and blue tailed 2.5" salutes) | 2.5" | 1/1 | \$140 |
| 134A | 64 shot White Glittering Eight Angle Chrysanthemum (8x8 splitting gold willows w/white glittering tips) | 1.5" | 1/1 | \$115 |
| 134B | 2" 50 shot Mixed Cake | 2" | 1/1 | \$113 |
| 135 | 70 shot Fan Gold Belt Chrys Crossette (10 shots x 7 per shot gold crackling tails to gold crackling willow crossettes) | 1.2" | 1/1 | \$81 |
| 136A | 80 shot Brocade Crown tail, Red tail to Crackle (fanned brocade tail & red tail to crackle tips) | 1.2" | 1/1 | \$86 |
| 136B | 80 shot Asst. Cake | 1.2" | 1/1 | \$75 |
| 142A | 100 shot White Mine to Silver Coconut Blue + Red Strobe (fanned strobing white mines to alternating silver coconuts + blue & silver coconuts + red) | 1.2" | 1/1 | \$98 |
| 142B | 100 shot W-shape Blue in Brocade (W-shape blue tails to gold & blue brocades) | 1.2" | 1/1 | \$100 |
| 142C | 100 shot Z-shape Blue Stars to Green Willow (Z-shape blue stars to green glittering willows) | 1.2" | 1/1 | \$100 |
| 151 | 100 shot Z-shape Red Crossette w/Brocade Crown - (z-shaped red crossettes with bouquet rain below) | 1.5" | 1/1 | \$102 |
| 152 | 100 shot Tornado Blue Crown - (spiraling silver tail to mix blue & gold chrysanthemum) | 1" | 1/1 | \$91 |

Multi-Shots

| Item # | Description | Tube I.D. | Case Packing | Price/ Case |
|--------|--|-----------|--------------|-------------|
| 155 | 100 shot Z Blue bouquet horse tail (z-shaped gold tails with blue bouquet to gold horsetail willows) | 1.2" | 1/1 | \$99 |
| 160A | 100 shot Red Blue White Glittering Brocade Crown | 1.2" | 1/1 | \$87 |
| 160B | 100 shot Silver Lion Red Blue Crackling | 1.2" | 1/1 | \$82 |
| 161A | 100 shot Titanium Salute w/Red,White, Blue Tails | 1" | 1/1 | \$96 |
| 162B | 100 shot Mixed Cake - Z shape | 1.2" | 1/1 | \$95 |
| 163D | 100 shot Silver Lion, Red, Blue Dahlia (Z-shape) | 1.2" | 1/1 | \$100 |
| 163E | 100 shot Straight Cake - Blood Red & Blue Scenery | 1.2" | 1/1 | \$86 |
| 164B | 120 shot Big Gold Coconut + Blue Mine (10 shot x 12 per shot golden mines to blue w/large golden coconuts breaking above) | 1.2" | 1/1 | \$118 |
| 164C | 120 shot Three Step Song (fanned gold tails to green & gold stars to crackle breaks & crackling mines) | 1.2" | 1/1 | \$120 |
| 164E | 120 shot Blood Red & White Strobe Two Step Song | 1.2" | 1/1 | \$120 |
| 164F | 104 shot Poisonous Spider (crackling to red glittering mine;crackling to red glittering willow) | 1.2" | 1/1 | \$97 |
| 165 | 104 shot Assorted Ground Cake - (great variety of effects with lots of crackle and long lasting) | 1.25" | 1/1 | \$94 |
| 167 | 121 shot Asst. Color Crown | 1" | 1/1 | \$105 |
| 170 | 130 shot Rythmic Cake - (flights of multiple shells of rain to brocade to spider webs to color) | 1.25" | 1/1 | \$132 |
| 170A | 130 shot Brocade Crown Waterfall Mine to Color Strobe | 1" | 1/1 | \$113 |
| 173 | 150 I-W-Z Cake (I-shape blue stars to blue and gold breaks, v-shaped blue stars to blue & gold coconuts, W-shape red & green chrysanthemums, Z-shaped glittering tails to glittering color, Z-shaped color tails to color palms, ending with lots of crackle) | 1.25" | 1/1 | \$138 |
| 173A | 150 shot Battle of Heroes | 1" | 1/1 | \$120 |
| 183 | 200 shot Assorted Fan Cake (verticle + W+fan shape cake - great variety and color - video available online) | 1.25" | 1/1 | \$199 |
| 183B | 250 shot V to Z Gold tail to Blue Pearls (V-shape gold tails at outer ends w/Z-shape blue pearls center) | .8" | 1/1 | \$104 |
| 185B | 300 shot 5 line fan - Red Thousand Silver Whirling Blue Stars (blue stars in V-shape w/red tail and silver whirling stars to red crossettes center) | .8" | 1/1 | \$126 |
| 185E | 300 shot Z & I shape Crackling tail, Red tail, Purple Dahlia, Green Strobe (Z-shaped crackling tail + red tail center to Purple Dahlia & Green Strobe) | .8"+1" | 1/1 | \$127 |
| 186 | 300 shot Peacock | .5" | 1/1 | \$126 |
| 186A | 300 shot Colorful World - Z shape | .5" | 1/1 | \$98 |
| 186B | 300 shot Whistle to Color Strobe Mines Z&I | .5" | 1/1 | \$127 |
| 187 | 500 shot Peacock (peacock shaped fan of white glitter tails to red tips) | .5" | 1/1 | \$130 |
| 189A | 600 shot Blue Brocade Waterfall (glittering brocade mines in peacock shape with blue tails on outer ends) | .5" | 1/1 | \$138 |
| 189B | 600 shot Four Seasons (alternating red & blue tails in peacock shape w/crackling tips) | .5" | 1/1 | \$138 |
| 189C | 600 shot Red, White, Blue Happy Star | .5" | 1/1 | \$138 |
| 189D | 500 shot Strange Color Blooming | .5" | 1/1 | \$125 |

Single Row Fans

| Item # | Description | Tube I.D. | Packing | Case Price |
|-----------|--|-----------|---------|------------|
| PFX13FR-3 | 13 shot Fan Silver tiger comet w/ red strobe mine | 1.5" | 12/1 | \$129 |
| PFX13FR-4 | 13 shot Fan Gold Tiger Tail w/Green Strobe Mine | 1.5" | 12/1 | \$129 |
| PFX13FR-5 | 13 shot Fan Gold Glitter Tail w/Blue Mine | 1.5" | 12/1 | \$129 |
| PFX13FR-7 | 13 shot Fan Brocade & Red Star Mine to White Strobe Willow | 12/1 | 12/1 | \$129 |
| PFX13FR-9 | 13 shot Fan Brocade & Red Star Mine to Blue Strobe Willow | 12/1 | 12/1 | \$129 |

Flower King Shell Assortments

2 1/2" Shells

| | | | |
|---------------|--|------------------|--------------|
| FK25-A | 2-1/2" Flower King Assortment A | 96 shells | \$274 |
|---------------|--|------------------|--------------|

4 each
 Red chrys, Green chrys, Yellow chrys, Blue chrys, Purple chrys, Red wave, Green wave, Golden wave, Blue wave, Purple wave, Silver wave, White glittering willow, Green glittering willow, Crackling willow, Red crackling wave, Green crackling wave, Red wave w/ crackling, Green wave w/ big silver chrys, Red peony, Green peony, Yellow peony, Blue peony, Purple peony, Color peony

3" Shells

| | | | |
|--------------|------------------------------------|-----------------|--------------|
| FK3-A | 3" Flower King Assortment A | 72shells | \$290 |
|--------------|------------------------------------|-----------------|--------------|

3 each
 Red to silver peony, Purple peony, Blue peony w/red pistil, Silver peony w/green pistil, Golden peony, Green to silver peony w/pistil, Yellow chrysanthemum, Silver chrysanthemum, Spangle chrysanthemum, Red gamboge to purple, Green to red chrysanthemum, Glittering silver to blue chrysanthemum, Glittering silver to green chrysanthemum, Golden wave to red chrysanthemum, Red gamboge to silver to green, Blue chrysanthemum w/yellow pistil, Golden chrysanthemum w/green pistil, Silver willow, Purple willow, Time Rain Coconut, Red & Gold Wheel, Golden kamuro, Green & silver glitter, Gold palm tree

| | | | |
|--------------|------------------------------------|------------------|--------------|
| FK3-B | 3" Flower King Assortment B | 72 shells | \$295 |
|--------------|------------------------------------|------------------|--------------|

3 each
 Brocade red, White twinkling chrysanthemum, Fine willow, Gold wave, Red peony crackling pistil, Pink dahlia, Green crackling, Bright gold, Color falling leaves, Gold kamuro, Crackling spider, Red ring crackling pistil, Golden palm tree, Diadem chrys to silver, Green glittering willow, Red to yellow peony, Brocade crown, Red chrys w/cherry pistil, Color crossette, Color swimming stars, Red to silver peony, Golden wave to red chrys, Blue chrys w/yellow pistil, Golden chrys w/green pistil

| | | | |
|--------------|------------------------------------|------------------|--------------|
| FK3-C | 3" Flower King Assortment C | 72 shells | \$295 |
|--------------|------------------------------------|------------------|--------------|

3 each
 Effects to be determined by factory at time of printing.

4" Shells

FK4-A 4" Flower King Assortment A 36 shells \$252

2 each

Red to blue to silver peony, Red peony w/blue pistil, Green to silver peony w/pistil, Purple peony w/silver pistil, White twinkling chrysanthemum, Glittering Silver to green to yellow chrysanthemum, Golden wave to blue chry, Glittering silver to blue to red chrys, Purple chrys w/red pistil, Golden wave to silver to green chry, Diadem changing to red, red comet, Silver tail, Golden tiger tail w/willow, Silver strobe red to green, Silver coconut, Palm tree, Dragon eggs

FK4-B 4" Flower King Assortment B 36 shells \$262

2 each

Multicolor comet with time rain pistil, Brocade crown crossette, Red palm to thousand of brocade crown, Golden willow to green, Blue chrysanthemum w/bright willow ring, Red & green falling leaves, Brocade crown to white, Charcoal chrys, Color dahlia, Brocade crown waterfall, Chrys to cherry, Green peony w/silver coco core, Purple peony w/green pistil, Silver strobe waterfall, Glittering crossette, White twinkling chrys, Color iron tree, Red green swimming dragon

FK4-C 4" Flower King Assortment C 36 shells \$282

2 each

Crossette ring in ring, Brocade green ring with gold glittering pistil, Color tracer, pink, Grass green, lemon, water color dahlia, Color strobe waterfall, Gold crown waterfall to red glittering horse tail, Peacock grass, Color strobe, Blue crossette octopus chrys. Blue chrys glittering pistil kaleidoscope, Four season flower ring crackling flower pistil, Spring flower, Golden wave red mushroom, Big purple red sizzling, Gold spider with green glittering to red pistil with brocade tail, Golden titanium willow with crackling pistil, White strobe with purple strobe pistil, 8 angle chrys flower crown to purple coconut

FK4-D 4" Flower King Assortment D 36 shells \$282

2 each - effects to be determined by factory at time of printing

5" Shells

FK5-A 5" Flower King Assortment A 18 shells \$209

1 each

Thousand purple chrys, Thousand color rings, Thousand crackling bees, Asst scatter, Sun cap, Gine willow, Green horsetail grass, Red willow & green willow double ring, Silver palm to red swimming star, Spring flower, Red feather shell, Red octopus to chrys to cherry, Octopus with blue pistil, Silver coconut green glitter, Peachblow to white glittering w/blue green glittering pistil, Color spiral to strobe willow

FK5-B 5" Flower King Assortment B 18 shells \$209

1 each

Brocade to big silver chrys w/green to big silver chrys w/silver chrys pistil, Brocade green ring with gold glittering pistil, Silver coconut to thousand of brocade crown, Pink, grass green, lemon, water color dahlia, Medusa, Ghousand of fire deity, Blue chrys glittering pistil kaleidoscope, Changeable chrys (chrys blue to red to silver), Gold bowite with blue ring, Titanium chrys coconut tree, Blue pistil gold tide, Green glittering waterfall, Silver glittering waterfall, Glittering white to red with green glitter pistil, Red to white to blue peony, Red wave to glitter, Silver peony with blue pistil, Silver wave to red

FK5-D 5" Flower King Assortment D 18 shells \$209

1 each - effects to be determined by factory at time of printing

6" Shells

FK6-A 6" Flower King Assortment A 9 shells \$197

*1 each
Red green crossette to thousand of brocade crown, Blue crossette octopus chrys, Silver glittering waterfall, Gold willow to pink, Silver coconut and red to white glitterin, Saturn ring to crackling time rain crown to green, Cherry pistil chrys blooming, Brocade chrys to red crossette w/crackling pistil, Brocade crown eight flower chrys w/glittering pistil*

FK6-B 6" Flower King Assortment B 9 shells \$190

*1 each
Color dahlia, Silver palm tree dark circle, Gold light, Golden titanium willow with crackling pistil, Red pistil glittering to crackling, Crackling willow green falling leaves, Silver crown eight angle red falling leaves, Green glittering happy star willow, Yellow/blue half color to white glitter*

FK6-C 6" Flower King Assortment C 9 shells \$197

*1 each
Multi color wave, Red to silver peony w/blue to red pistil, Silver to red chrys w/blue pistil, Yellow/gold strobe w/crossette gold glittering pistil, Jupiter w/ring, Diadem chrys. w/reports, Red wave to glittering butterfly, Blue peony crackling willow pistil red crossette, Color strobe*

FK6-D 6" Flower King Assortment D 9 shells \$184

*1 each
Yellow to purple to silver to green peony, Blue peony w/titanium chrys crackling pistil, Saturn horsetail ring, Bowtie ring, Golden kamuro to red, Three stage cascade, Three stage crackling pearl cascade, Thousands chrys to small flowers, Gold willow time rain*



8" Shells

| | | | |
|--------------|------------------------------------|-----------------|--------------|
| FK8-A | 8" Flower King Assortment A | 4 shells | \$154 |
|--------------|------------------------------------|-----------------|--------------|

Out of Stock 2020 season

| | | | |
|--------------|------------------------------------|-----------------|--------------|
| FK8-B | 8" Flower King Assortment B | 4 shells | \$161 |
|--------------|------------------------------------|-----------------|--------------|

Out of Stock 2020 season

| | | | |
|--------------|------------------------------------|-----------------|--------------|
| FK8-C | 8" Flower King Assortment C | 4 shells | \$172 |
|--------------|------------------------------------|-----------------|--------------|

Out of Stock 2020 season

| | | | |
|--------------|------------------------------------|-----------------|--------------|
| FK8-D | 8" Flower King Assortment D | 4 shells | \$161 |
|--------------|------------------------------------|-----------------|--------------|

Out of Stock 2020 season

8" Shells

Out of Stock 2020 season



Flower King Shell Assortments

2 1/2" Shells

XP25-A 2-1/2" FX Assortment A 96 shells \$240

2 each

Brocade to Red, Brocade to Green, Brocade to Blue, Brocade to Yellow, Brocade to Purple, Brocade to Color, Red wave , Green Wave, Gold Willow, Gold Willow w/Strobe Pistil, Brocade Crown , Brocade Crown w/Red Strobe Pistil, Silver Wave, Yellow Wave, Gold Wave, Purple Wave, Red Chrys, Green Chrys, Silver Strobe, Gold Wave to Purple, Special Green, Purple Peony, Jumbo Crackle Flower, Blue Wave, Yellow Peony, Gold Strobe, Green to Silver Strobe, Red Peony, Color Peony, Blue Peony, Silver Peony, Gold Wave to Green, Gold Wave to Red, Gold Wave to Blue, Gold Wave to Yellow, Gold Wave to Color; Silver Wave to Red, Gold Willow to Color; Orange Wave, Silver Wave to Crackling, Purple Wave to Crackling, Silver Wave to Blue, Silver Wave to Green, Red Strobe Willow, Crackling Willow, Gold Wave to Green, Color Wave, Orange Wave

3" Shells

XP3-A 3" FX shell Assortment A 72 shells \$265

2 each

Blue to continuous glittering crackers, Blue to golden glittering willow, Blue wave circle, Brocade crown to blue, Brocade crown to deep red, Brocade crown to green, Brocade crown to purple, Brocade crown to var. color; Brocade crown w/red strobe pistil, Brocade crown waterfall, Crackling wave circle, Deep red peony, Glittering to blue, Glittering to gold, Glittering to var. color; Glittering wave circle, Gold crackling, Gold glittering coconut, Gold titanium chrys, Green crackling, Green wave circle, Lemon and yellow peony, Purple wave circle, Red chrys w/crackling pistil, Red dahlia with silver glittering willow, Red to crackling willow, Red wave circle, Reddish gamboge to blue chrys, Reddish gamboge to green chrys, Reddish gamboge to purple chrys, Reddish gamboge to red chrys, Reddish gamboge to yellow chrys, Silver continuous glittering waterfall, Silver crown waterfall, Silver wave circle, Var. color wave circle

XP3-B 3" FX shell Assortment B (all with silver tail) 72 shells \$281

2 each

Blue Chrys w/Coconut Pistil, Blue Coconut Tree, Blue Ring, Blue Willow, Brocade Crown to Blue, Brocade Crown to Green, Brocade Crown to Yellow, Brocade Crown w/Strobe Pistil, Color Chrys, Dahlia Green, Dahlia Purple, Diadem Chrys to Strobe, Golden Kamuro, Golden Palm, Golden Spider, Golden Strobe to Blue, Green Strobe, Half Red Half Purple Chrys, Purple Chrys, Purple Wave, Red Coconut Tree, Red Dahlia w/Silver Glitter Willow, Red Gamboge to White, Red Peony w/Crackling, Red Ring, Red to Crackling Chrys, Red Willow, Silver Palm, Silver to Blue Chrys, Silver Wave, Silver Willow, Titanium Salute, White Ring, White Strobe, White Strobe Chrys, Yellow Chrys w/Green Pistil

4" Shells

| | | | |
|--------------|---------------------------------|------------------|--------------|
| XP4-A | 4" FX shell Assortment A | 36 shells | \$253 |
|--------------|---------------------------------|------------------|--------------|

2 each

Brocade crossette circle, Brocade crown waterfall, Crackling crossette circle, Crackling willow, Glittering to Blue, Glittering to purple, Gold crossette circle, Gold pistil chrys peony, Gold strobe with blue pistil, Gold titanium chrys, Green peony, Green pistil chrys peony, Green willow, Purple to white strobe, Purple wave to titanium chrys, Red coconut with red circle, Red crossette circle, Silver crossette circle

| | | | |
|--------------|--|------------------|--------------|
| XP4-B | 4" FX shell Assortment B (all with silver tail) | 36 shells | \$262 |
|--------------|--|------------------|--------------|

2 each

Blue to crackling, Brocade crown to red, Chrys to Silver, Crackling willow, Gold crackling willow, Gold peony, Gold strobe with crackling pistil, Gold strobe with green pistil, Gold strobe with red pistil, Green wave to titanium chrys, Purple crackling willow, Purple to crackling, Purple wave to titanium chrys, Red peony with purple pistil, Red to crackling, Silver coconut with green circle, Silver coconut with red circle, Silver wave to titanium chrys

5" Shells

| | | | |
|--------------|---------------------------|------------------|--------------|
| XP5-A | 5" FX Assortment A | 24 shells | \$282 |
|--------------|---------------------------|------------------|--------------|

2 each *Half Red Half Blue w/Silver Ring, Blue Peony, Purple to Silver Strobe Willow, Blue Dahlia w/Gold Strobe Willow, Glittering Chrys w/Crackling Pistil, Purple Dahlia w/Silver Strobe Willow, Green Wave, Gold strobe Waterfall, Silk Willow, Gold Strobe Willow to Special Green, Red Peony w/Crackling Pistil, Silver Wave to Special Green*

| | | | |
|--------------|--|------------------|--------------|
| XP5-B | 5" FX Assortment B (all with silver tail) | 24 shells | \$296 |
|--------------|--|------------------|--------------|

2 each *Silk Willow to Special Green, Brocade Crown w/Red Strobe Pistil, Diadem to Red, Gold Peony, Red to Green to Blue to Silver, Gold Wave to Red to Silver, Gold Willow w/Green Strobe Pistil, Diadem to Gold, Silver Crown to Purple, Green to Silver Peony, Green Willow, Silk Willow to Red Strobe*

| | | | |
|--------------|--|------------------|--------------|
| XP5-C | 5" FX Assortment C (all with silver tail) | 24 shells | \$299 |
|--------------|--|------------------|--------------|

2 each *Blue to Gold Glittering Willow, Purple to Silver Glittering Willow, Crackling Crossette, Two Stage Brocade Crown Crossette, Brocade Crown w/Red Strobe Pistil, Titanium Silk Chrys w/Red Pistil, Purple to White Strobe, Silk Willow to Green, Color to Crackling Willow, Blue Dahlia w/Gold Glittering Willow, Brocade crown to white strobe w/white strobe willow, Flower Crown w/Green Ring*

FX Premium Line Shells

6" Shells

XP6-A **6" FX Shell Assortment A** **9 shells** **\$176**

1 each Big leaves gold willow, Blue wave to red bowtie with purple circle, Brocade horse tail waterfall, Gold crackling willow, Orange strobe crossette, Red to green to blue to gold peony w/brocade to purple to silver pistil, Sea yellow to blue to purple to silver strobe peony w/brocade to red blue pistil, Silver chrys-shell of shells, Var. color crackling willow

XP6-B **6" FX Shell Assortment B (all with silver tail)** **9 shells** **\$182**

1 each Blue wave to var. color, Brocade to red, Crackling brocade crown bowtie with blue circle, Green crackling willow, Green red blue to silver strobe w/brocade to blue to yellow pistil, Green to blue crackling, Peach blow grass green and orange dahlia, Purple crackling willow, Saturn with circle

XP6-C **6" FX Shell Assortment C (all with silver tail)** **9 shells** **\$181**

1 each Blue dahlia to cracker w/brocade circle, Brocade crown w/red crossette pistil, Brocade crown waterfall bowtie with blue circle, Charcoal willow to red, Crackling gold spider to red bowtie with blue circle, Gold strobe w/color pistil, Gold wave to green meteor Revolving flower to red crossette
Var. color flower with coconut pistil

8" Shells

XP8-A **8" FX Assortment A** **4 shells** **\$173**

not available 2020 season

XP8-B **8" FX Assortment B** **4 shells** **\$179**

not available 2020 season

XP8-C **8" FX Assortment C** **4 shells** **\$177**

not available 2020 season

XP8-D **8" FX Assortment D** **4 shells** **\$177**

not available 2020 season

4" Shells

| | | | |
|--------------|----------------------------------|------------------|--------------|
| YF4-A | 4" Yung Feng Assortment A | 36 shells | \$399 |
|--------------|----------------------------------|------------------|--------------|

2 each

3D ghost var. dahlia, Blue crackling w/crackling pistil, Glittering silver to green to blue chrys, Golden wave to flying dragons, Golden wave to red chrys, Golden willow to white strobing, Green to purple ghost peony, Kamuro chrys to purple, Aqua Meteor, Orange to lemon strobing peony, Pink ghost peony, Purple flying dragons, Purple ghost peony, Nishiki Kamuro to Silver, Reddish Gamboge to flying dragons, Variegated magic peony, White strobing peony, Yellow crackling w/crackling pistil

5" Shells

| | | | |
|--------------|----------------------------------|------------------|--------------|
| YF5-A | 5" Yung Feng Assortment A | 20 shells | \$449 |
|--------------|----------------------------------|------------------|--------------|

1 each

3D Ghost Shell, Blue Jellyfish, Aqua crackling w/crackling pistil, Blue to nishiki kamuro niagara falls double circles, Glittering silver to blue to green chrys w/red pistil, Glittering silver to blue to red to silver chrys, Golden wave to blue crackling w/crackling pistil, Golden wave to green butterfly w/red circle, Golden wave to variegated crossette w/crackling pistil, Golden Willow Ten Thousand Circle Chrys, Golden willow to white strobing, Green to purple to silver peony w/blue pistil, Magic red hearts, Nishiki kamuro niagara falls, Nishiki kamuro to blue, Red to crackling ghost peony, 1/4 red/green/blue/yellow peony w/crackle pistil, Reddish gamboge to silver swimming chrys, Nishiki Kamuro to White Strobing, Yellow Crackling w/Crackling Pistil

| | | | |
|--------------|----------------------------------|------------------|--------------|
| YF5-B | 5" Yung Feng Assortment B | 20 shells | \$449 |
|--------------|----------------------------------|------------------|--------------|

1 each

Nishiki kamuro to blue, 1/4 red/green/blue/yellow peony w/crackling pistil, Big golden willow, Golden willow ten thousand circle chrys, Green willow, Nishiki kamuro to blue butterfly w/blue circle, Reddish gamboge to blue chrys, Red to yellow peony w/blue pistil, Red heart, Magenta to var. strobing crossette, Green crackling, Golden wave to red to blue chrys w/green pistil, Glittering silver to blue to red to silver chrys, Glittering silver to aqua to lemon chrys, Blue titanium salute small flowers, Blue meteor, Reddish gamboge to yellow chrys, 3D ghost shell, Blue to Nishiki Kamuro Niagra Falls Double Circles, Strobing Chrys to Red Strobing w/Red Strobing Pistil w/Nishiki Kamuro Circle

6" Shells

| | | | |
|--------------|----------------------------------|-----------------|--------------|
| YF6-A | 6" Yung Feng Assortment A | 9 shells | \$349 |
|--------------|----------------------------------|-----------------|--------------|

1 each Aqua magic peony w/smling face, Blue flying dragon w/blue pistil, Variegated thousand circle chrys, Eight Hearts (red to blue) Golden wave to variegated strobing, Golden willow, Green strobing nishiki kamuro w/green strobing pistil, Nishiki kamuro to white strobing, Red to crackling ghost peony,

| | | | |
|--------------|----------------------------------|-----------------|--------------|
| YF6-B | 6" Yung Feng Assortment B | 9 shells | \$349 |
|--------------|----------------------------------|-----------------|--------------|

1 each Blue willow w/blue falling leaves, Golden willow thousand circle chrysanthemum, Green flying dragon w/green pistil, Golden wave to orange swimming chrys w/white strobing pistil, Strobing chrys w/var flower sheets w/silver pistil, 3D Ghost shell, Nishiki kamuro to red & blue w/red to blue pistil, Reddish gamboge to silver flying dragons w/blue pistil, 3D Peony circle

| | | | |
|--------------|----------------------------------|-----------------|--------------|
| YF6-C | 6" Yung Feng Assortment C | 9 shells | \$349 |
|--------------|----------------------------------|-----------------|--------------|

1 each Golden willow to white strobing, Lemon to white ghost shell, Nishiki Kamuro to white w/small white flowers, Purple to green ghost peony w/green to purple ghost peony, Red flying dragon w/red pistil, Silver willow, Small pastel variegated flower, Three pistil magenta to lemon strobing, White strobing diadem

Yung Feng Brand Shells

8" Shells

8" Yung Feng Shells 1/1

Price/Each

| Code | Size | Description | Price |
|---------|------|---|-------|
| YF8-C31 | 8" | Eight hearts (red to blue) | \$99 |
| YF8-C32 | 8" | Reddish gamboge to crackling chrys. w/3D flower sheet w/silver pistil | \$99 |
| YF8-C33 | 8" | Nishiki kamuro to silver | \$99 |
| YF8-C34 | 8" | Strobing chrys. w/blue pistil | \$99 |
| YF8-C35 | 8" | Golden willow thousand circle chrys | \$99 |
| YF8-C36 | 8" | 3D ghost double circles | \$99 |
| YF8-C37 | 8" | 3D peony circle | \$99 |
| YF8-C38 | 8" | Double palm tree w/red circle | \$99 |
| YF8-C39 | 8" | Small Aqua Flowers | \$99 |
| YF8-C40 | 8" | Glittering silver to blue to red to silver chrys | \$99 |
| YF8-C41 | 8" | Nishiki kamuro to white strobe w/white strobe pistil | \$99 |
| YF8-C42 | 8" | Golden wave to red to blue chrys | \$99 |
| YF8-C43 | 8" | Cracking thousand circle chrysanthemum | \$99 |
| YF8-C44 | 8" | Reddish gamboge to orange strobing chrys | \$99 |
| YF8-C45 | 8" | Variiegated crackling diadem | \$99 |
| YF8-C46 | 8" | Eight hearts (red to blue) | \$99 |

10" Shells

10" Yung Feng Shells 1/1

| Code | Size | Description | Price |
|----------|------|--|-------|
| YF10-B02 | 10" | Kamuro chrysanthemum to silver w/strobing pistil | \$189 |
| YF10-B22 | 10" | Nishiki kamuro niagara falls w/strobing pistil | \$189 |
| YF10-C22 | 10" | Nishiki kamuro w/blue & golden strobing double pistils | \$189 |
| YF10-C24 | 10" | Red peony w/nishiki kamuro circle | \$189 |
| YF10-C25 | 10" | 3D ghost shell | \$189 |
| YF10-C26 | 10" | Aqua ghost peony w/red pistil | \$189 |
| YF10-C27 | 10" | eight hearts (Blue to white strobing) | \$189 |
| YF10-C28 | 10" | Golden wave to blue chrys. w/red pistil | \$189 |
| YF10-C29 | 10" | Golden wave to red swimming chrys. w/crackling pistil | \$189 |
| YF10-C30 | 10" | Magenta to silver peony w/strobing palm tree w/green pistil | \$189 |
| YF10-C31 | 10" | White magic strobing peony w/golden palm tree w/green to purple pistil | \$189 |
| YF10-C32 | 10" | Nishiki kamuro circle w/red strobing pistil | \$189 |
| YF10-C33 | 10" | Nishiki kamuro circle w/white strobing pistil | \$189 |
| YF10-C35 | 10" | Nishiki kamuro to red strobing w/red strobing pistil | \$189 |
| YF10-C36 | 10" | Nishiki kamuro to silver w/strobing pistil | \$189 |
| YF10-C37 | 10" | Nishiki kamuro to white strobing w/white strobing pistil | \$189 |
| YF10-C38 | 10" | Eight hearts (purple to green) | \$189 |
| YF10-C39 | 10" | 1/4 magenta/lemon/aqua/orange peony w/crossing nishiki kamuro circles | \$189 |
| YF10-C40 | 10" | Nishiki kamuro to blue butterfly w/red circle | \$189 |

Yung Feng Brand Shells

Mines

| Item # | Description | Case Packing | Price/Case | Price/Each |
|--------|---|--------------|------------|------------|
| FK3-TM | 3" Thunder Mine | 72 shells | \$229 | \$5 |
| FK3-RM | 3" Red Mine | 72 shells | \$229 | \$5 |
| FK3-WM | 3" White Mine | 72 shells | \$229 | \$5 |
| FK3-BM | 3" Blue Mine | 72 shells | \$229 | \$5 |
| FK3-M2 | 3" Green & Gold Glittering Mine | 72 shells | \$229 | \$5 |
| FK3-M3 | 3" Gold Glitter Stars to Silver Fish Mine | 72 shells | \$229 | \$5 |
| FK4-RM | 4" Red Mine | 36 shells | \$198 | \$8 |
| FK4-WM | 4" White Mine | 36 shells | \$198 | \$8 |
| FK4-BM | 4" Blue Mine | 36 shells | \$198 | \$8 |
| FK4-M2 | 4" Green & Gold Glitter Mine | 36 shells | \$198 | \$8 |
| FK4-M3 | 4" Blue Dahlia Stars to Silver Fish Mine | 36 shells | \$198 | \$8 |
| SB4-SM | 4" Spider Mine | 36 shells | \$239 | \$10 |



Salutes

| Item # | Description | Case Packing | Price/Case | Price/Each |
|----------|---|--------------|------------|------------|
| FK25-SST | Flower King 2-1/2" Salute w/Silver Tail | 96/1 | \$229 | \$3 |
| FK3-SNT | Flower King 3" Salute - No Tail | 72/1 | \$254 | \$4 |
| FK3-SCT | Flower King 3" Salute w/Crackling Tail | 72/1 | \$270 | \$5 |
| FK25-FSS | 2-1/2" Flower King Finale String of 10 shells | 10/10 | \$283 | \$37 |
| FK3-FSS | 3" Flower King Finale String of 10 shells | 6/10 | \$243 | \$53 |

Open Stock Shells

| Item # | Description | Packing | Price/Case | Price/Each |
|----------|--|---------|------------|------------|
| XP25-FW | FX Premium 2-1/2" Flower Willow Waterfall | 96/1 | \$240 | \$3 |
| XP25-CW | FX Premium 2-1/2" Crackling Willow | 96/1 | \$240 | \$3 |
| XP25-BR | FX Premium 2-1/2" Brocade to red | 96/1 | \$240 | \$3 |
| FK3-HS | Flower King 3" Gold Horse Tail | 72/1 | \$254 | \$4 |
| XP3-FW | FX Premium 3" Flower Crown Waterfall | 72/1 | \$275 | \$5 |
| XP3-BCR | FX Premium 3" Brocade Crown w/Red Strobe Pistil | 72/1 | \$275 | \$5 |
| XP3-RCW | FX Premium 3" Red to Crackling Willow | 72/1 | \$275 | \$5 |
| XP3-GK | FX Premium 3" Gold Kamuro | 72/1 | \$275 | \$5 |
| XP3-BC | FX Premium 3" Blue Crossette | 72/1 | \$275 | \$5 |
| SB4-AH | Starbright 4" Angles Hair | 36/1 | \$229 | \$8 |
| FK4-SF | Starbright 4" Smiley Face | 36/1 | \$229 | \$8 |
| FK4-RH | Starbright 4" Red Heart | 36/1 | \$224 | \$8 |
| FK4-CSW | Flower King 4" Flower King Color Strobe Waterfall | 36/1 | \$292 | \$10 |
| FK4-HS | Flower King 4" Flower King Gold Horse Tail | 36/1 | \$224 | \$8 |
| HX4-T02 | FX Premium 4" Flower Crown w/Green Strobe Pistil | 24/1 | \$245 | \$14 |
| XP4-FW | FX Premium 4" Flower Crown Waterfall | 36/1 | \$260 | \$9 |
| XP4-BCR | FX Premium 4" Brocade Crown w/Red Strobe Pistil | 36/1 | \$260 | \$9 |
| XP4-GK | FX Premium 4" Gold Kamuro | 36/1 | \$260 | \$9 |
| XP4-BCC | FX Premium 4" Brocade Crossette Circle | 36/1 | \$260 | \$9 |
| XP4-BC | FX Premium 4" Blue Crossette | 36/1 | \$260 | \$9 |
| FK5-CSW | Flower King 5" Color Strobe Waterfall | 18/1 | \$263 | \$18 |
| FK5-GP | Flower King 5" Gold Palm w/Large Trunk Tail | 18/1 | \$229 | \$16 |
| FK5-HS | Flower King 5" Gold Horse Tail | 18/1 | \$201 | \$14 |
| SB5-AH | Starbright 5" Angles Hair (horsetail) | 24/1 | \$229 | \$13 |
| FK5-FLR | Flower King 5" Red Glittering Falling Leaves | 18/1 | \$199 | \$13 |
| FK5-FLB | Flower King 5" Blue Glittering Falling Leaves | 18/1 | \$199 | \$13 |
| FK5-FLS | Flower King 5" Silver Falling Leaves | 18/1 | \$199 | \$13 |
| XP5-FW | FX Premium 5" Flower Willow Waterfall | 24/1 | \$290 | \$16 |
| XP5-BCR | FX Premium 5" Brocade Crown w/Red Strobe Pistil | 24/1 | \$290 | \$16 |
| XP5-GK | FX Premium 5" Gold Kamuro | 24/1 | \$290 | \$16 |
| XP5-HRHB | FX Premium 5" Half Blue Half Red in Silver Ring | 24/1 | \$290 | \$16 |
| XP5-RFRC | FX Premium 5" Revolving Flower to Red Crossette | 24/1 | \$290 | \$16 |
| XP6-FWW | FX Premium 6" Flower Willow Waterfall | 9/1 | \$180 | \$25 |
| XP6-BCR | FX Premium 6" Brocade Crown w/Red Strobe Pistil | 9/1 | \$180 | \$25 |
| XP6-SC | FX Premium 6" Saturn w/Circle | 9/1 | \$180 | \$25 |
| XP6-BDBC | FX Premium 6" Blue Dahli to Crackle w/Brocade Circle | 9/1 | \$180 | \$25 |
| XP6-RFRC | FX Premium 6" Revolving Flower to Red Crossette | 9/1 | \$180 | \$25 |

| Item # | Description | Case Packing | Price/Case | Price/Each |
|--------|--|--------------|------------|------------|
| SQ3-US | Electric Match 9 foot leads (MJG Tech) | 1050 | \$600 | .65 ea. |
| SMF | Sticky Match Fast (60 ft. length) | | | \$18 |
| SMS | Sticky Match Medium (60 ft. length) | | | \$18 |
| QM | Quick Match 30ft. length per bundle (old style) | | | \$6/bundle |
| QM1 | Quick Match (50 meter/165 ft. length per roll) | 25/1 | \$179 | \$9/roll |
| QM2 | Quick Match *Waterproof (50 meter/165 ft. length per roll) | 25/1 | \$199 | \$10/roll |
| VF | Visco Fuse "Cannon" | | | \$.25 ft. |
| SW | Shooting Wire 1,000 ft. | | | \$49.00 |

| Item # | Description | Case Packing | Price/Case |
|--------|---|--------------|------------|
| 3001 | Celebration Crackers 100,000 Tau (5 ft length) | 10/1 | \$85 |
| 3002 | Celebration Crackers 100,000 Tau (40 ft length) | 1/1 | \$60 |
| 3003 | Celebration Crackers 300,000 Tau (80 ft length) | 1/1 | \$145 |
| 4001 | Red Lance - 60 seconds | 144/1 | \$60 |
| 4003 | White Lance - 60 seconds | 144/1 | \$60 |
| 4005 | Blue Lance - 60 seconds | 144/1 | \$60 |
| 4007 | Green Lance - 60 seconds | 144/1 | \$60 |
| 4009 | Yellow Lance - 60 seconds | 144/1 | \$60 |



Misc. Items & More



Mortars - Loose

Item # Size

| | | | | | |
|---------------|--|---------------|--------------|-----------------------------------|----------------|
| <i>FM-2</i> | <i>1.91" consumer fiberglass mortar.....</i> | <i>\$2.50</i> | <i>FM-5</i> | <i>5" fiberglass mortar.....</i> | <i>\$14.00</i> |
| <i>FM-2.5</i> | <i>2.5" fiberglass mortar.....</i> | <i>\$3.50</i> | <i>FM-6</i> | <i>6" fiberglass mortar.....</i> | <i>\$19.50</i> |
| <i>FM-3</i> | <i>3" fiberglass mortar.....</i> | <i>\$4.50</i> | <i>FM-8</i> | <i>8" fiberglass mortar.....</i> | <i>\$39</i> |
| <i>FM-4</i> | <i>4" fiberglass mortar.....</i> | <i>\$8.75</i> | <i>FM-10</i> | <i>10" fiberglass mortar.....</i> | <i>\$72</i> |

Mortars and mortar racks are available for purchase only - No loans or Deposits.

Please order early, supplies are limited and may not be available on short request. Especially close to July 4th.

Wood Racks

Wood Racks - *We are no longer making wood racks however we will be glad to assist you in getting diminsions from our standard size racks for making your own.**

Item # Size Price

| | |
|--------------|------------------------------------|
| <i>WR-25</i> | <i>2-1/2" Wood Rack x 10 shots</i> |
| <i>WR-3</i> | <i>3" Wood Rack x 8 shots</i> |
| <i>WR-4</i> | <i>4" Wood Rack x 5 shots</i> |
| <i>WR-5</i> | <i>5" Wood Rack x 4 shots</i> |
| <i>WR-6</i> | <i>6" Wood Rack x 3 shots</i> |



All racks are 38" end to end. This makes for easier grouping of different size mortar racks.

*****IMPORTANT*** As with any fireworks equipment, mortars & racks should be inspected before each use for wear and tear. Repair or replace as necessary.**

Important Safety Instructions

Make sure all personnel that will be involved in set up and firing of the display have read and understand these instructions. These instructions are based on The National Fire Protection Association 1123 Code for Outdoor Fireworks Display, and The Pyrotechnics Guild International Display Operators Study Guide as well as general knowledge and experience. These instructions are “suggested practice” and do not reflect a final format. The NFPA 1123 has been adopted in many states but not in all. It is your ultimate responsibility to obey all local, state, and federal laws. It is suggested that you order a copy of the NFPA1123 by calling or writing you state fire marshal’s office. Your local fire department or police department is responsible for issuing permits for a display and it is they who have the ultimate say in the way you conduct your display.

STORAGE AND HANDLING:

When you receive your material, store it in a cool, dry, location inaccessible to unauthorized persons and children. Explosives being stored **MUST** be placed in a storage magazine that meets or exceeds ATF storage specifications. **NEVER** throw, slide, or drop explosive. Store 1.3G material under lock and key away from children, fire, and moisture. Storage must comply with all federal, state, and local laws. Storage can not be located in a residence or dwelling. Visit ATF website at www.atf.treas.gov for a full listing of storage rules and regulations.

SITE SELECTION AND SAFETY DISTANCES:

When selecting a location to fire your display, choose an area at least 25 feet from overhead obstructions such as power lines and trees. Your location must also have the “minimum safety distance” from spectators, inhabited buildings, parking lots, livestock, or any other object that has the possibility of damage or injury by an errant shell or fallout material. The minimum distance must be doubled for fuel storage areas, hospitals, nursing homes, jails, or any other buildings where people cannot be evacuated quickly. The National Fire Protection Association recommends a minimum distance of 70 feet per inch of shell diameter. Aerial FX, however, recommends a minimum distance of 100 feet for added safety as shown.

Minimum Distance as Recommended by the National Fire Protection Association

Minimum Distance as Recommended by Aerial FX

| Shell Size by Diameter | Minimum Radius of Display Site for Outdoor Display of Fireworks | Minimum Radius of Display Site for Outdoor Display of Fireworks | |
|------------------------|---|---|-----------|
| Under 3-Inch | 140 Feet | Under 3-inch | 150 Feet |
| 3-Inch | 210 Feet | 3-Inch | 300 Feet |
| 4-Inch | 280 Feet | 4-Inch | 400 Feet |
| 5-Inch | 350 Feet | 5-Inch | 500 Feet |
| 6-Inch | 420 Feet | 6-Inch | 600 Feet |
| 7-Inch | 490 Feet | 7-Inch | 700 Feet |
| 8-Inch | 560 Feet | 8-Inch | 800 Feet |
| 10-Inch | 700 Feet | 10-Inch | 1000 Feet |
| 12-Inch | 840 Feet | 12-Inch | 1200 Feet |
| Over 12-Inch | | | |

Multi-Shot “Cakes” items should be judged by the size of the “shots”. i.e. - 1.5” = 150 feet. 2” = 200 feet when using the recommended distance of 100 feet per inch by Aerial FX.

FIRE HAZARDS: When selecting your site take note of any potential fire hazards such as dry standing or cut grass, piles of flammable debris, brush, or anything that might ignite. Fuel storage areas require careful consideration and normally need twice the safety distance. Having local fire authorities present is a good idea if possible. They may be able to wet down dry areas and stand by to help should something get out of control.

MORTAR INFO: Mortars should be fiberglass, HDPE (High Density Polyethylene), steel, or cardboard. **NEVER** use steel mortars to fire salutes. **NEVER** use PVC or ABS plastic pipe to fire any shells. When firing from HDPE mortars note that these mortars become soft and melt as they get hot. You can not fire over approx 7 times in succession before failure. **NEVER** use cast iron to construct any mortars. It will shatter much like PVC and ABS plastic.

INSTALLING MORTARS: Mortars should be buried 2/3 to 3/4 of their length or fired from securely positioned mortar racks.

SOME AERIAL SHELL FACTS

Shells are sized as per the inside diameter of the mortar they will be fired from. Hence a 3" shell is to be fired from a 3" inside diameter mortar. Placing a shell in a mortar which is too large may result in a low or ground break. Shells are extremely powerful. Pay attention to detail to avoid serious injury or death. All shells are supplied with a safety cap (a paper tube over the lighting fuse) which prevents early ignition while loading during a display. This cap should only be removed by the shooter after the shell has been loaded into its mortar and is about to be fired. Display shell fuses are made of quickmatch. Regardless of which type you are handling, be advised that when the fire gets to the quickmatch, the leader will burn instantly and the shell will immediately be propelled from the mortar. Display shells usually reach a height of roughly 100 feet per inch of diameter. This means a 3" shell reaches an altitude of approx. 300 feet with very large shells reaching a max altitude of 1200 to 1300 feet. This is why safety distances are important. NO EXCEPTIONS.

INSPECTING SHELLS: Before the display, you will need to prepare the shells by removing them from their plastic wrappers or boxes. Inspect each shell for moisture, leaking lift powder, slashed bodies, damaged leader loops, missing safety caps and torn leaders (fuses). Wet or moist shells should not be used, even if allowed to dry. On top of most ball shells is a string loop that the leader passes through. This must be intact for the shell to orient itself in the mortar properly. Shells which have leaked lift powder or have had their bodies slashed should NEVER be used and may be returned to Aerial FX for credit.

CAKES: Place the cake on a level surface right side up, open the top flaps, and tape them open so they will not hinder the shots as they are projected into the air. Cakes should be given support to prevent them from flipping over during firing. Most cakes have two fuses laying on the top under the box flaps. If you wish the item to go off very rapidly, you may connect these two fuses together. Always follow minimum safety distances with all cake items.

DISPLAY RESPONSIBILITIES

Only personnel directly involved in the set up and ignition of the display should be in the display site. NO EXCEPTIONS

THE LOADER: During a hand lit display the loader's job is to keep the mortars full and ready for the shooter. Usually each loader is responsible for one size shell only. After the shooter has fired all of that size shell and has advanced a safe distance down the line, the loader takes a number of shells (depending on the size) from the ready box to the mortar line and reloads his mortars keeping low and keeping his back to the area where shells are being fired. Never leave the ready box containing shells open. Small shells can be carried by their leaders but larger shells should be carried by their bodies or ropes. When loading the mortar, always swing the shell out away from you to drop it in the mortar. NEVER place your hand or body over the mortar. After lowering the shell into the mortar, bend the leader over the side of the mortar to insure it won't fall in when you release it and go on the next mortar. If paper has built up in the bottom of the mortars, it must be cleaned out to prevent a low break. While carrying shells, NEVER drag the leaders across the ground and always be aware and alert of your surroundings.

THE SHOOTER: The shooter's job is to ignite the shells and maintain continuity during the display. Most hand lit displays are ignited with a road flare or fusee. NEVER carry the fusee or any other source of ignition back to the ready area for obvious reasons. Always stay in a low, crouched position while removing the safety cap. Then light the tip of the exposed fuse and retire to a safe distance waiting for the shell to ignite.

ALWAYS REMEMBER TO NEVER HAVE ANY PART OF YOUR HANDS OR BODY OVER THE MORTAR AT ANY TIME DURING A DISPLAY. FAILURE TO HEED THIS WARNING MAY RESULT IN SERIOUS INJURY OR DEATH. IF A SHELL FAILS TO IGNITE, DOUSE THE MORTAR WITH WATER AND MARK AS UNUSABLE WITH A PLASTIC BUCKET FOR THE REMAINDER OF THE SHOW. NEVER ATTEMPT TO EMPTY THE MORTAR OR INSPECT THE SHELL DURING THE SHOW OR BEFORE DOUSING WITH WATER AND ALLOWING SIGNIFICANT TIME.

NEVER allow any unauthorized personnel to enter the display site until securing all pyrotechnics. After the display, the finale may have unfired shells with smoldering fuses. Do not approach for at least 15 minutes and then keep low looking for shells that didn't go off. If unfired shells are found leave them alone for at least another 10-15 minutes. Then douse any hot fuses or shells with water until you are confident the shells are no longer "hot". NEVER tip a mortar toward yourself or any spectator to remove a misfired shell. A full search of the area must also be done to locate any duds or flammable materials. Again treat duds with extreme caution. Repeat inspection of the area again at first light.

ALL UNFIRED SHELLS SHOULD BE RETURNED TO AERIAL FX OR AN ATF APPROVED BUNKER FOR STORAGE. IF ITEMS NEED TO BE DISPOSED OF PLEASE RETURN THEM TO AERIAL FX FOR PROPER DISPOSAL.

EXPLOSIVE PURCHASERS UNDER FEDERAL LAW

Explosives placed in storage must be placed in a storage magazine that meets ATF storage specifications.

You may purchase and transport explosives only within your state of residence unless you have a Federal explosives license or permit. You must report any loss or theft of explosives to the Bureau of Alcohol, Tobacco and Firearms and the fire department enforcement within 24 hours of the discovery. You could be subject to a fine of up to \$1,000 and/or imprisonment for failure to comply with Federal explosives