HOW SPECIAL FX® SERVES YOU

Special FX® Lighting has been providing high quality custom manufactured permanent color products and solutions to the lighting industry since 1984. Our award winning products are manufactured to the highest standards. Major manufacturers, designers and specifiers give Special FX® their highest grade for quality, consistency and on-time delivery. Our products were invented by us and are constantly improved. We provide our customers with what they want: fast, expert, cost-effective products and services.

Our superior customer service ensures that your company will have instant access to all aspects of your order. Although we deal with large and exacting color orders, Special FX® has retained a personal business flavor. We’re easy to do business with, and we want to provide you with what you want, when you want it.

Our products are custom manufactured to your specification. In order for us to provide you with pricing, we request the following information: fixture, wattage, beamspread, application, color and quantity. We will then prepare a written quotation based on the most cost-effective product we can warranty. We have tested our products on hundreds of lighting fixtures, and retain this information in an extensive data base. In many cases your application many already have a color solution. If not, we offer complimentary testing of your supplied fixture in our facility to determine the most cost effective permanent color warranty solution. In the event that product evaluation samples are required, we can provide them to you at little or no additional cost. Special FX warranties all tested products on fixtures that have not been modified from the quoted specification. General turn around time, based on project and quantity, is two to five weeks from receipt of your purchase order. Lead time for supplied substrates is two to five weeks from receipt of substrate.

Special FX® can match any standard theatrical media color, or we can match your provided sample. Color temperature adjustments can be made to your Kelvin specifications. UV block coating is available. Diffusion in various types and intensities can be added to any color on any FX® product.

Special FX® can apply color to the following substrates:
- heat strengthened glass
- tempered glass
- lighting glassware and plasticware (globes, domes, jelly jars, carriage lights, etc.)
- polycarbonate tubes and sheets
- acrylic cylinders and panels
- light bulbs
- sign lamps

We also offer metal fabrication for lensholders and standoffs

At Special FX® we are committed to helping you create your unique vision in permanent, stunning color in the most practical and economical manner possible. Contact us for all your permanent color needs.
**Special FX® Lighting Worldwide Project List**

Dichro•X and EZ Glass Lenses, Fade•Not® Poly Tubes, Fade•Not® Gel, Lightbulbs, and Custom Coated Products were specified in the following selected projects:

### Historical Sites and Museums
- Jefferson Memorial - Washington DC
- Lincoln Memorial - Washington DC
- Bridge of the Americas - Panama Canal
- McArthur Causeway - Miami, FL
- Space Needle - Seattle, WA
- Henry Ford Museum - Detroit, MI
- Puerto Rico Convention Center - Puerto Rico
- America West Arena - Phoenix, AZ
- Fourth Street Live - Lexington, KY
- Guggenheim Museum - Las Vegas, NV
- US Holocaust Museum - Washington DC
- Pennsylvania State Museum - Harrisburg, PA
- Museum of Tolerance - New York, NY
- Harvard Depository - Southboro, MA
- St. Louis Planetarium - St. Louis, MO
- Museum of Science and Industry - Chicago, IL
- Clark Memorial Bridge - Louisville, KY
- Port Columbus Museum - Columbus, GA
- Denver Airport - Denver, CO
- Jackson Street Bridge - Newark, NJ

### Theme Parks and Other Attractions
- WannaDo - Ft. Lauderdale, FL
- Tokyo Disney Sea Park - Tokyo, Japan
- Star Trek, The Experience - Las Vegas, NV
- Universal Studios IMAX Theatre - Universal City, CA
- Sony Plaza - New York, NY
- Teen Mania - Lindale, TX
- Texas Wild Zoo - Ft. Worth, TX
- Venus Fort - Tokyo, Japan
- Sony Metreon - San Francisco, CA
- Legoland - Carlsbad, CA
- Hogle Zoo - Salt Lake City, UT
- Major theme parks and attractions - Worldwide

### Hotels and Casinos
- Mohegan Sun/Wombi Planetarium - Uncaseville
- The Clift Hotel - San Francisco, CA
- Motor City Casino - Detroit, MI
- Bellagio - Las Vegas, NV
- Caesar's Palace - Las Vegas, NV
- Grand TriBeCa Hotel - New York, NY
- Hard Rock Cafe & Casino - Tampa, FL

### Businesses, Stores, and Restaurants
- Bank of Quebec - Quebec, Canada
- Victoria’s Secret Stores - Nationwide
- Equinox Health Club - Nationwide
- Macy’s Las Vegas - Las Vegas, NV
- Vanderbuilt Children’s Hospital - Nashville, TN
- American National Insurance - Galveston, TX
- Veteran’s Hospital - Miami, FL
- Toys ‘R Us - New York, NY
- The Forum Shops - Las Vegas, NV
- The Gap - New York, NY
- Nordstrom - Nationwide
- Dolphin Mall - Miami, FL
- New 42nd Street - New York, NY
- The Original Levi’s Store - Seattle, WA
- Gameworks - Las Vegas, NV
- Hallmark Kaleidoscope - Kansas City, MO

### Broadway and Theatre
- Mamma Mia - New York, Boston, San Francisco, Australia
- Lion King - New York, Los Angeles, Toronto, Tokyo, London, Berlin, Australia
- All Shook Up - Chicago, IL
- Cirque du Soleil ’O’ - Las Vegas, NV
- Titanic Exhibit - Touring Nationwide
- King Tut Exhibit - Touring Nationwide
EZ•Glass™ coatings are applied to heat strengthened borosilicate glass or tempered soda-lime glass. Specification and size will determine glass substrate required. EZ•Glass will not shatter from heat, as with standard art glass. EZ•Glass is thermal shock resistant and does not need to be cut into strips to allow for heat dissipation or expansion. EZ•Glass will last years without fading or burning when used according to Special FX® guidelines. FX has color and heat tested hundreds of fixtures and will recommend the best product for your fixture. We offer complimentary testing of your supplied fixture in our facility to determine the most cost effective permanent color warranty solution.

**Indoor Applications** are specified as **EZ Glass**. This specification is coated single pane glass and is vulnerable to moisture and scratching, suitable for dry locations only. Follow FX handling guidelines to ensure warranty.

**Outdoor Applications** are specified as **Architectural EZ Glass**. This specification is coated, sealed, double pane glass that protects the coating from moisture and scratching, suitable for wet locations.

**Substrates** We can coat yours or ours. Specify one of the following:

- **Heat Strengthened Borosilicate**, available in 1.75-2.2mm thick and 2” to 12” sizes.
- **Tempered Soda Lime Silicate**, available in .125” thick and up and 1” to 24” sizes.

**Color Selection** Any color or combination of colors from any theatrical color media can be specified. To aid in color decision making Special FX recommends mocking up with color. Once color is determined, FX can supply your project with product samples at little or no cost. We can also match provided color samples.

**Specifying EZ•Glass for your project** All FX products are custom manufactured for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications, fixture information and color, which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**Order Lead-time** Standard order lead-time for borosilicate glass is two weeks from receipt of Purchase Order. Lead-time for tempered glass is approximately four weeks from receipt of Purchase Order. Lead-time for supplied substrates is from receipt of material. Lead-times may be longer for large projects, or for projects that require metal fabrication and powder coating.
**COLOR CORRECTION**

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**Color Correction Lenses**

Color correction for all light sources is a specialty at FX. Our coatings can be made to any intensity or hue with no off-color halation. These high transmission colors are often used to trim the blue/green halide spectrum, creating more pleasing skin tones and a warmer, more inviting atmosphere. Guaranteed kelvin matching is an FX specialty. Correction lenses are treated as any other color and are usually specified as EZ Glass or Dichro•X lenses, but can also be specified as Fade•Not® Poly Sleeves for fluorescent fixtures or Fade•Not® Outdoor Polycarbonate for lower wattage fixtures.

**Substrates**

We can coat yours or ours. Specify one of the following:
- Heat Strengthened Borosilicate is available in 1.75-2.2mm thick and 2” to 12” sizes.
- Tempered Soda Lime Silicate is available in .125” thick and up and 1” to 24” sizes.
- Plastic Sheets and Shapes. Our stock includes 2mil, 5 mil, 20mil and 30mil Sheets.
- T-5, T-8, T-12 fluorescent sleeves.

**Specifying FX® Color Correction Lenses for your project**

All FX products are custom manufactured for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications and fixture information which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**Order Lead-time**

Average order lead-time for FX supplied material is two weeks.
- Lead-time for tempered material is three-four weeks.
- Custom coating of your substrate- Contact factory.
Dichro•X Glass Lenses

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**Dichro•X™** lenses are a combination dichroic glass and EZ-Glass™ technology. The advantages of this combination include controlling or eliminating dichroic edge distortion, limitless color choice and substantial cost savings over full dichroic glass. Dichro•X can be applied to heat strengthened borosilicate glass or tempered soda-lime glass. Specification and size will determine glass substrate required. Dichro•X will not shatter from heat, as with standard art glass. Dichro•X is thermal shock resistant and does not need to be cut into strips to allow for heat dissipation or expansion. Dichro•X will last years without fading or burning when used according to Special FX® guidelines. FX® has color and heat tested hundreds of fixtures and will recommend the best product for your fixture. We offer complimentary testing of your supplied fixture in our facility to determine the most cost effective permanent color warranty solution.

**Indoor Applications** are specified as **Dichro•X**. This specification is coated single pane glass and is vulnerable to moisture and scratching, suitable for dry locations only. Follow FX handling guidelines to ensure warranty.

**Outdoor Applications** are specified as **Architectural Dichro•X**. This specification is coated, sealed double pane glass that protects the coating from moisture and scratching, suitable for wet locations.

**Substrates** We can coat yours or ours. Specify one of the following:
- **Heat Strengthened Borosilicate** is available in 1.75-2.2mm thick and 2” to 12” sizes.
- **Tempered Soda Lime Silicate** is available in .125” thick and up and 1” to 24” sizes.

**Color Selection** Any color or combination of colors from any theatrical color media can be specified. To aid in color decision making Special FX recommends mocking up with color. Once color is determined, FX can supply your project with product samples at little or no cost. We can also match provided color samples.

**Specifying Dichro•X for your project**  All FX products are custom manufactured for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications, fixture information and color, which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**Order Lead-time** Standard order lead-time for borosilicate glass is two weeks from receipt of Purchase Order. Lead-time for tempered glass is approximately four weeks from receipt of Purchase Order. Lead-times for supplied substrates is from receipt of material. Lead-times may be longer for metal fabrication and powder coating.

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**Special FX Lighting**

435.635.0239 - Voice 435.635.3929 - FAX info@fxlight.com - Email www.fxlight.com - Website 293 N. 2260 W. PO Box 177 Hurricane UT 84737
**Dichro•Shield for Cyclorama Lights**

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**Dichro•Shield** is hybrid dichroic glass that mechanically or magnetically attaches to the outside of the fixture reflector just off the lamp. Prolong color life by specifying FX Dichro•Shield with **EZ Glass** or **Fade Not® X•FILM**.

**Specifying FX Dichro•Shield for your project**

All FX products are custom manufactured for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications, fixture information and color, which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**HIR Lamps for CYC Lights**  HIR lamps produce more lumen per watt and run cooler and longer. FX has tested these lamps and they live up to their claims. We highly recommend HIR lamps for all CYC lights and halogen box lights. Double ended T-Types replace many standard wattage lamps, lumen output is higher, heat produced is 30% lower, color filter life is greatly extended. (Example: 350W HIR is equivalent to 500W. 650W HIR is equivalent to 1000W.) Call Special FX Lighting for further details.
**Dichroic Glass**

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Dichroic filters operate using the principle of interference. Alternating layers are built up upon a substrate, selectively reinforcing certain wavelengths of light and interfering with other wavelengths. The layers are usually deposited using a process carried out in a vacuum chamber. By controlling the thickness and number of the layers, the wavelength of the filter can be tuned and made as wide or narrow as desired.

Because unwanted wavelengths are reflected rather than absorbed, dichroic filters don’t absorb much energy during operation and so don’t become nearly as hot as the equivalent conventional filter (which attempts to absorb all energy except for that in the passband). Dichroics are high in transmission with very pure color. Continuous operating temperature is 200°C. Although dichroics have all of the above stated qualities, we do not recommended using dichroics on any type of flood or Fresnel type fixtures. Dichroic filters have the characteristic of shifting color as the projected light angle is changed, this is known as “halation” or “off axis” color. Special FX Lighting strongly recommends testing dichroics on your fixture in order to assure design integrity.

**Substrate**

Dichroic glass is manufactured using heat-strengthened borosilicate glass. This substrate will not shatter from heat when used below the maximum operating temperature of 200°C.  
1.1-2.2mm thick borosilicate glass up to 30” dia.  
3.3mm thick borosilicate up to 15” dia.

**Color Selection**

Limited colors or combination of colors. Best effort match only. Contact Special FX for color availability.

**Order Lead-time**

Average order lead-time for standard colors is three weeks after receipt of Purchase Order.  
Lead-time for custom colors is four to six weeks.
**FX UV Block Coating**

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**FX® UV Block Coating** is an economical and efficient way to eliminate premature degradation of sensitive exhibit items, or to protect environments from the UV spectrum. This highly transparent coating blocks UV radiation at 400nm. FX can provide the substrate or coat your material. Please contact us to determine the best application method and to ensure product warranty.

**Applications**

Installations required to block UV radiation. Call FX for further information on fixtures suitable for FX UV Block coating. Specify Indoor or Outdoor use.

**Substrates**

We can coat yours or ours. Specify one of the following:
- Heat Strengthened Borosilicate is available in 1.75-2.2mm thick and 2” to 12” sizes.
- Tempered Soda Lime Silicate is available in .125” thick and up and 1” to 24” sizes.
- Plastic Sheets and Shapes. Our stock includes 2mil, 5 mil, 20mil and 30mil Sheets.
- T-5, T-8, T-12 fluorescent sleeves.

**Specifying FX® UV Block for your project**

All FX products are custom manufactured for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications and fixture information which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**Order Lead-time**

Average order lead-time for FX supplied material is two weeks.
- Lead-time for tempered material is three-four weeks.
- Custom coating of your substrate - Contact factory.
# Light Bulbs

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Special FX® Lighting has been coloring many styles of light bulbs for over twenty years. Our permanent color light bulbs are used in some of the best hotels, theme parks and restaurants worldwide. We pride ourselves on batch-to-batch consistency and quick order turn around times. FX has tested many lamp styles and wattages for color longevity. If your specific lamp has not been tested, we will perform a heat test and give our estimate for color practicality.

## Color Selection
Any color or combination of colors from any theatrical media can be specified. To aid in color decision making Special FX recommends mocking up with color. Once color is determined, FX can supply your project with product samples at little or no cost. We can also match provided color samples.

## Specifying FX® Light bulbs for your project
Contact Special FX Lighting by phone, fax or email with lamp specifications, wattage and color being used. We will review the information and recommend the longest lasting, most cost-effective solution for your application.

## Ordering FX® Light bulbs
All quotes are provided on a per job basis. FX can provide light bulbs or coat your supplied light bulb. Contact factory for further details and pricing.

## Order Lead time
Standard order lead time for customer supplied lamps is two weeks. Lead time for lamps supplied by Special FX Lighting is three-four weeks from receipt of Purchase Order.
**Glassware and Plasticware**

**Glassware and Plasticware:*** Special FX® custom colors a variety of wares for major lighting manufacturers, from bollards and steplights to highbay clear refractors and accented area lighting. These coatings are fade proof and weather proof. Specify indoor or outdoor use.

**Color Selection**
Any color or combination of colors from any theatrical color media can be specified. To aid in color decision making Special FX recommends mocking up with color. Once color is determined, FX can supply your project with product samples at little or no cost. We can also match provided color samples.

**Specifying Glassware and Plasticware for your project**
These products are custom coated for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications, fixture information and color, which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**Order Lead-time**
Standard order lead-time is two weeks from receipt of material. Lead-time for custom orders is up to four weeks.
**FADE•NOT® POLY SLEEVES**

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**Fade•Not® Poly Sleeves** are manufactured using the highest quality rigid polycarbonate material available. Special FX uses an exclusive coating process to color these sleeves. UV block is inherent in the coating process, therefore a separate UV filter is not required. **Fade•Not® Poly Sleeves** are warranted for five years against color degradation. Please contact FX for unique color products for High Output and compact fluorescent lamps.

**Sizes**
T-5, T-8, T-12
Standard 48” lamp, or cut to size.

**Color Selection**
Any color or combination of colors from any theatrical color media can be specified. To aid in color decision making Special FX recommends mocking up with color. Once color is determined, FX can supply your project with product samples at little or no cost. We can also match provided color samples.

**Specifying Fade•Not® Poly Sleeves for your project**
All FX products are custom manufactured for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications, fixture information and color, which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**Order Lead-time**
Lead-time is subject to order quantity.
Standard lead-time is two weeks.
Custom sizes and large orders up to four weeks lead-time.
**FADE•NOT® X•FILM THEATRICAL GEL**

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**Fade•Not® X•Film** is produced using a high temperature state-of-the-art polymer film with Fade•Not® coating. The combination of these two materials produces a gel with up to 30 times the longevity of standard gel. Specify **Fade•Not X•Film** for long life in applications where all other gel fades (turns clear). If gel turns brown or black, specify **EZ Glass** or **Dichro•X** glass for permanent life. **Fade•Not X•Film** is not recommended for long-term outdoor use. As an alternative, specify **FX Outdoor Polycarbonate**.

**Sizes**
Any up to 20”x24”
Custom cuts available

**Applications**
Theatrical fixtures currently using standard gel or applications where glass filters are unsuitable. Use according to Special FX® guidelines.

**Substrate**
2mil high temp plastic sheet.

**Color Selection**
Any color or combination of colors.
Standard colors - Specify any color or combination of colors from any theatrical color media.
Custom colors- Supply color sample.

**Specifying Fade•Not® X•Film for your project**
All FX products are custom manufactured for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications, fixture information and color, which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**Order Lead time**
Standard order lead time is two weeks from receipt of order.
**FADE•NOT® POLYCARBONATE**

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**Fade•Not® Polycarbonate** is manufactured using only the best commercial grade polycarbonate. UV absorbers are added to the coloring process to prevent premature degradation, providing the longest life possible. **Fade•Not® Polycarbonate** can last years when used within standard operating temperatures. FX can coat a variety of plastic sheets and strips. All plastics are suitable for wet locations. Use **Fade•Not® Polycarbonate** on fluorescent fixtures, low temperature architectural or theatrical fixtures, inside fluorescent or low temperature bollards, and temporary outdoor applications such as holiday or theme lighting.

**Substrates**
We can coat yours or ours.

**Plastic-Sheets**
Our stock includes 2mil, 5 mil, 20mil and 30mil Sheets. We can also get .0625 thick and up. Call for more sizes.

**Color Selection**
Any color or combination of colors from any theatrical color media can be specified. To aid in color decision making Special FX recommends mocking up with color. Once color is determined, FX can supply your project with product samples at little or no cost. We can also match provided color samples.

**Specifying Fade•Not® Polycarbonate for your project**
All FX products are custom manufactured for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications, fixture information and color, which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**Order Lead-time**
Standard order lead-time for in-stock sheets is two weeks from receipt of Purchase Order. Lead-time for non-stock sheets is approximately four weeks from receipt of Purchase Order.
### LENS HOLDERS

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#### Lens Holders
Applications using dark color PAR-38s 150 watts and over, and dark color 75 watt PAR-30s should use color lens holders for best results. PAR lens holders are finished in durable black powder coat.

Special FX® also carries versatile MR-16 lens holders which clip directly on the lamp.

#### Applications
MR-11, MR-16, PAR 20, 30 and 38 Lamps

#### Specifying FX Lens holders
Specify bulb type, fixture, wattage and beam spread. Special FX will write the specification for use in your project.

#### Order Lead-time
Lead-time is subject to order quantity. Standard lead-time is four weeks.
**METAL FABRICATION**

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**Lens Holders/Standoffs**

There are many benefits of mounting color lenses on lens holders which standoff the color glass from the main lens. This design creates the least heat impact on the fixture, ballast, lamp and lens. FX recommends using the fixture manufacturer's lens holders whenever possible. FX regularly designs and builds prototype lens holders for manufacturers. If lens holders are not available from the fixture manufacturer, FX® can fabricate them using 22 gauge powder coated steel. These fabrications are economical, weatherproof, and durable.

**Applications**

High wattage, or very hot fixtures

**Specifying FX Lens holders**

All FX products are custom manufactured for the specified lighting instrument. Contact Special FX Lighting by phone, fax, or email with project specifications and fixture information which will be reviewed to recommend the longest lasting, most cost-effective product for your application.

**Substrate**

22-gauge powder coated steel

**Sizes**

Stand off size is determined by the individual fixture and beam spread. Lens holders are normally fabricated to the size of the fixture doorframe.

**Order Lead-time**

Lead-time is subject to order quantity.
Standard lead-time is four weeks.