

IMAGINE

PARTNER

CREATE

INSPIRE

Digital Print + Interactive Media + Custom Displays + LED Lightboxes

DUGGAL®

# A HISTORY OF INNOVATION & LEADERSHIP



DUGGAL GREENHOUSE WINS NATIONAL GRID AWARD FOR ENERGY EFFICIENCY

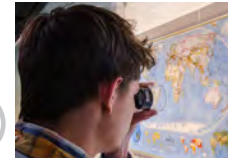
DUGGAL OPENS BUILDING 25 IN THE BROOKLYN NAVY YARD AND BECOMES THE ONLY PRINTING COMPANY TO HAVE A LEED GOLD CERTIFIED PRODUCTION HOUSE.



DUGGAL BECOMES SUSTAINABLE GREEN PRINTING PARTNERSHIP CERTIFIED



DUGGAL BECOMES THE FIRST COMPANY IN THE WORLD TO INSTALL THE REVOLUTIONARY INCA Q40I HIGH RESOLUTION 63X123 DIGITAL PRESS



DUGGAL EXCLUSIVELY INTRODUCES HD C-PRINTS®. THE HIGHEST RESOLUTION PRINTS IN THE WORLD



DUGGAL BECOMES A FORESTRY STEWARDSHIP COUNCIL & RAINFOREST ALLIANCE CERTIFIED PRINTER

DUGGAL OPENS ITS 10TH LOCATION, A 25,000 SQ FOOT UL-LISTED DISPLAY SHOP IN BROOKLYN



DUGGAL INSTALLS THE FIRST HIGH-RESOLUTION UV 16 FOOT PRINTER IN THE UNITED STATES

2002

DUGGAL AWARDED "PHOTO-IMAGER OF THE YEAR" BY PHOTOGRAPHIC PROCESSING MAGAZINE

1999

30,000 SQ. FEET CORPORATE HEADQUARTERS OPENS AT 29 W. 23RD ST. IN THE HEART OF NEW YORK'S PHOTO DISTRICT

1997

BALDEV DUGGAL IS AWARDED ENTREPRENEUR OF THE YEAR BY ERNST & YOUNG AND NASDAQ

1995

MICHAEL DUGGAL BECOMES CHIEF OPERATING OFFICER

1992

DUGGAL BECOMES THE FIRST COMPANY TO WRAP AN ENTIRE BUILDING WITH A WIDE-FORMAT GRAPHIC

1982

DUGGAL BECOMES THE FIRST LAB TO EXPAND INTO DIGITAL IMAGING BY OFFERING HIGH RESOLUTION DRUM SCANNING

1972

DUGGAL IS THE FIRST LAB TO BE OPEN 7 DAYS A WEEK

1962

DUGGAL REVOLUTIONIZES THE FILM PROCESSING INDUSTRY BY INVENTING AND BEING THE FIRST LAB IN THE WORLD TO OFFER AUTOMATED DIP AND DUNK FILM PROCESSING

1960

DUGGAL OPENS FIRST PHOTOGRAPHIC LAB IN WHAT IS NOW NEW YORK'S FAMOUS PHOTO DISTRICT



# TABLE OF CONTENTS

<b>PHOTOGRAPHIC PRINTING &amp; SERVICES</b> <i>Digital Photo Printing, Photographic Lab Services</i>	page 3-4
<b>MOUNTING, LAMINATION &amp; FRAMING</b> <i>Mounting, Lamination, Framing</i>	page 5-6
<b>RETOUCHING &amp; DIGITAL STUDIO</b> <i>Retouching, Contract Proofing, Studio Photography, Scanning, Digital Film Output</i>	page 7-8
<b>WIDE FORMAT &amp; ARCHIVAL PIGMENT PRINTING</b> <i>Large Format, Fine Art Giclee Printing, Dye-Sublimation, Vehicle Wraps</i>	page 9-10
<b>DIGITAL OFFSET &amp; FLATBED PRINTING</b> <i>Digital Offset/ Indigo, Digital Onset/ Flatbed, 3D/ Lenticular Printing</i>	page 11-12
<b>DIGITAL SIGNAGE &amp; MULTIMEDIA</b> <i>Video Transfer &amp; Conversions, Digital Signage &amp; Network Management, Multimedia Displays &amp; Content</i>	page 13-14
<b>DISPLAYS &amp; FIXTURES</b> <i>Portable Displays, Custom Displays &amp; Fixtures, Window Display, Laser &amp; Router Cutting</i>	page 15-16
<b>LIGHTBOXES</b> <i>Grand Format, Fabricated Lightboxes, Ultra Thin Lightboxes</i>	page 17-18
<b>EXHIBITIONS &amp; EVENTS</b> <i>Exhibitions, Showrooms &amp; Tradeshows, Custom Event Design, Event Management</i>	page 19-20
<b>DESIGN SERVICES &amp; INNOVATION LAB</b> <i>Mechanical Design, Visual Design, Fixture &amp; Product Design, Innovation Lab</i>	page 21-22
<b>3D PRINTING</b> <i>3D Printing &amp; Models, TV Color Correct, Card Comps, Prototype Packaging, Labels</i>	page 23-24
<b>INSTALLATION &amp; PROJECT MANAGEMENT</b> <i>Retail Store Rollouts, Campaign Management, Fulfillment, Packing, Installation</i>	page 25-26

# PHOTOGRAPHIC PRINTING & SERVICES

For more than 50 years, Duggal Visual Solutions has served as an industry leader in photographic printing and conventional lab services. Widely considered as the premier photo lab in the world, Duggal is a favorite among photographers, artists, museums and top retail brands.

- Largest amount of Digital Photographic Printers in the United States
- 24-Hour Digital C Department
- Up to 72" x 120" in Size
- HD C-Prints®- Highest Resolution Printer in the World with 6,100 Apparent DPI
- Matte, Glossy, Deep Matte, Metallic, Flex, Duratrans, Duraclear, True RC Black & White, and Fiber
- Over 50 Years of Experience



# SERVICES

## Digital Photo Printing

Unlike other forms of graphic printing, photographic printing is true continuous tone. From our revolutionary new HD C-Prints® with an astounding 6,100 DPI to our four 72-inch-wide Lightjet printers capable of producing photographic prints up to 72x120, Duggal has the solution you need. We also offer a wide selection of true archival photographic papers and display films in color and B&W.

## HD C-Prints®



See The Difference You Have Been Missing®

## Photographic Lab Services



# MOUNTING, LAMINATION & FRAMING

Duggal's skilled craftsmen and technical experts handle all aspects of display and print protection with a wide range of laminate options and custom mounting techniques. Our custom display solutions include mounting to dozens of different substrates, such as gallery-style mounting to plexi and anodized aluminum, to display boards such as Gatorboard and Sintra.

- Highly experienced craftsmen
- Dozens of substrates for mounting available from foamcore and gatorboard to anodized aluminum and brushed dibond
- Matte, glossy, and satin laminations available
- 100S of unique custom artisan frames styles



# SERVICES

Mounting

Lamination

Framing

Complementing our mounting department is our artisan-framing department, conveniently located at our 29 W 23rd St headquarters. Hundreds of unique, beautifully-crafted frame options are on display including standard finishes, reclaimed wood and custom welded steel.

## Frame Types:

### **Canvas Float Frame**

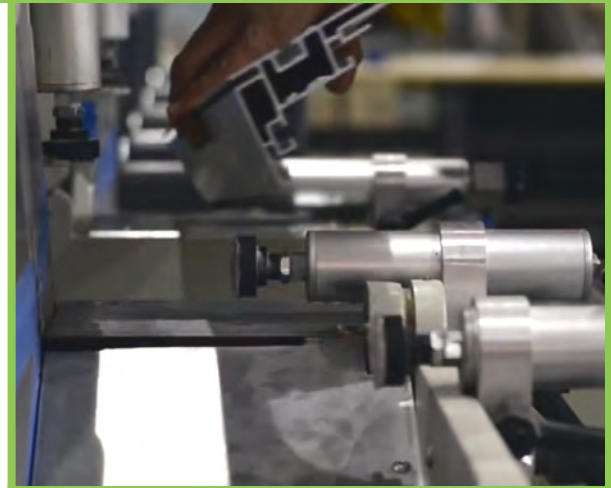
The canvas float frame is a great way to accent a print or original canvas with a contemporary edge, complementing the uniqueness of a stretched canvas art piece.

### **Gallery Float Frame**

The gallery float frame is an elegant way to create a museum-quality presentation while providing safety behind a plexi glass overlay.

### **Custom Classic Frame**

The classic frame is a formal way to present an original artwork or photographic print. The window mat allows for an artist's signature or edition number to be showcased below the art.



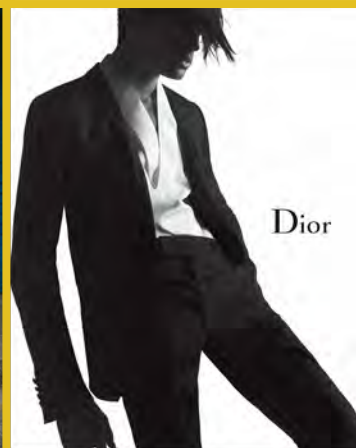
# RETOUCHING & DIGITAL STUDIO

As the first commercial lab in the country to install the then-revolutionary Shima Seiki retouching station in the 1980s, Duggal is a pioneer of digital retouching and image enhancement.

That tradition continues at the 24-hour Duggal Creative Studio, a sun-drenched loft.



The Creative Studio is home to state-of-the-art technology and our industry-leading retouching staff of over 30 artists. Here we provide high-end retouching, CGI services and G7 certified contract proofs.





# SERVICES

Retouching

Contract Proofing

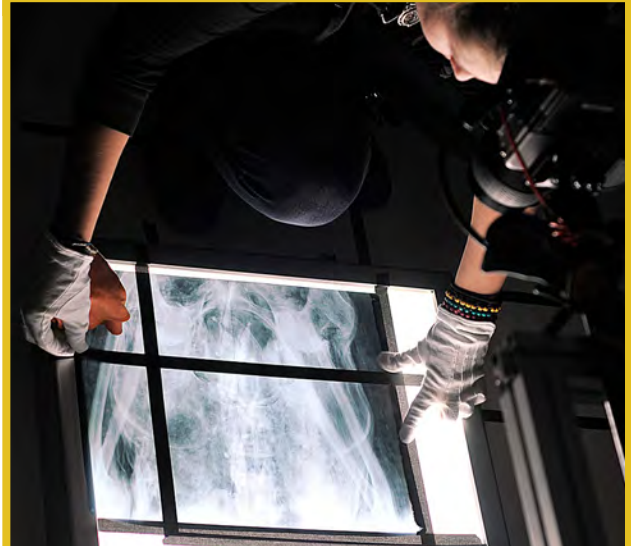
Studio Photography

Scanning

Digital Film Output

Our digital studio offers premium studio photography services including HD Capture for retail and fine art. The studio also provides digital film output and traditional high-resolution scanning, all in the heart of Manhattan's vibrant Flatiron District.

- 24 hour creative studio with over 30 highly trained retouching professionals
- HD capture system- combining the latest lighting, software, and camera technology to capture every detail of your retail or fine art
- G7 Master Printer Certified



# WIDE FORMAT & ARCHIVAL PIGMENT PRINTING

In 1993, Duggal became the first company to fully wrap a building in a wide format photographic mural. Since that groundbreaking success, we have led the graphics industry in producing banners, building wraps, custom digital wallpaper, vinyl floor graphics, billboards, carpeting and fleet graphics around the world.

We offer a comprehensive assortment of materials, from highly durable vinyl and fine art canvas to lightweight textiles, and a range of eco-friendly materials. Our printers are all VOC-free and feature the latest green technology and ultra high-resolution print heads. Our large fleet of top-of-the-line UV, Latex, Dye-Sublimation and Archival Pigment printers allows us to create high quality graphics at any size, quantity and speed required.



# SERVICES

## Large Format

## Fine Art & Giclee Printing

## Dye-Sublimation

## Vehicle Wraps

Our wide format printing is complemented by our finishing department that can seam, trim and weld thousands of graphics quickly and accurately. Our installation team can then handle everything from nationwide rollouts to major events.

- 14 large format printers able to create stunning graphics in any quantity, size and specifications needed for indoor and outdoor applications.
- Inkjet department produces stunning fine art giclee prints, and vinyl graphics for museums and retail stores.
- Superior eco-friendly pigment inks and fine art papers to print museum-quality work that lasts up to 200 years in proper display conditions.
- Our top-of-the-line dye-sublimation printers use eco-friendly, water-based inks and offer a broad range of textiles including Flag, Crease-Free Polyester, Backlit and Blockout Material.



# DIGITAL OFFSET & FLATBED PRINTING

Duggal's Manhattan headquarters is home to the Indigo 5600 digital offset press. The Indigo prints with astounding speed and detail, allowing us to produce top-quality brochures, photo books, cards, portfolios, calendars, invitations, direct mail and marketing materials in mass quantities with lightning turnaround. Variable data printing allows us to customize each piece for different audiences in a continuous print run.

- From brochures, invitations, sell sheets, photo books and even 3D lenticulars to retail signage, outdoor graphics and fine art reproductions, we run projects of all sizes with outstanding turnaround and top quality.
- Indigo 5600 digital offset press prints seven colors (CMYK, Orange, Violet and White) at up to 12.5" x 17.7"
- Substrates include fine art papers, acetates, pressure-sensitive vinyl, glossy, silk, and uncoated papers.



# SERVICES

## Digital Offset/ Indigo

In 2013, Duggal and Fujifilm announced the first commercial installation globally of the new Inca Onset Q40i UV high-speed digital press. With a droplet size of just 9 picoliters, three times less than the industry standard, the Inca gives Duggal the ability to provide unprecedented image detail and tonal range for industrial-volume runs.

Our Rho 900 flatbed press and Océ Arizona 350 GT UV flatbed printers are capable of printing directly to an assortment of substrates up to 2 inches thick, from display boards to aluminum and wood. Our presses also feature white ink for special effect printing on colored and metallic substrates.

- Diverse material substrates include metals, woods, canvas, foil, and static cling.
- 3D/lenticular department produces images with a range of effects including; 3D, flip, animation, morph and zoom.

## Digital Onset/ Flatbed



## 3D/ Lenticular Printing

# DIGITAL SIGNAGE & MULTIMEDIA

Duggal brings 50 years of experience at the forefront of visual communications and customer engagement to digital signage, display and interactive merchandising.

Duggal provides full service, concept-to-creation displays. From 3.0 renderings to digital content showcased in custom fabricated fixtures installed and maintained globally. We produce highly customized single installations as well as create and manage dynamic networks of over 1,000 locations.



# SERVICES

Video Transfer & Conversions

Digital Signage & Network Management

Multimedia Displays & Content

Our digital team applies their knowledge and experience of the newest technologies in the design of unique multimedia experience packages.

- Digital expertise in everything from electronics and sensors to programming and lighting, working alongside our fabrication team to ensure seamless design-to-display integration with custom video, animation and graphics.
- Broadcast-quality film and video conversion services - including damaged film - into high-end digital multi-format video transfers
- Custom digital interactive experiences
- Network management, maintenance & support
- Nationwide installation services

*For more information visit [duggalmediasolutions.com](http://duggalmediasolutions.com)*



# DISPLAYS & FIXTURES

Duggal custom-fabricated displays and fixtures offer a full range of solutions for stores, showrooms, tradeshow, hotels and exhibitions. Duggal designers create 3D renderings of your display before fabrication to ensure your satisfaction.

Our craftsmen use the latest equipment to fabricate unique one-off displays and campaigns for thousands of locations, all produced in-house at our dedicated display facilities. Our Installation department can assist you with your global needs.





# SERVICES

Portable Displays

Custom Displays & Fixtures

Window Display

Laser & Router Cutting

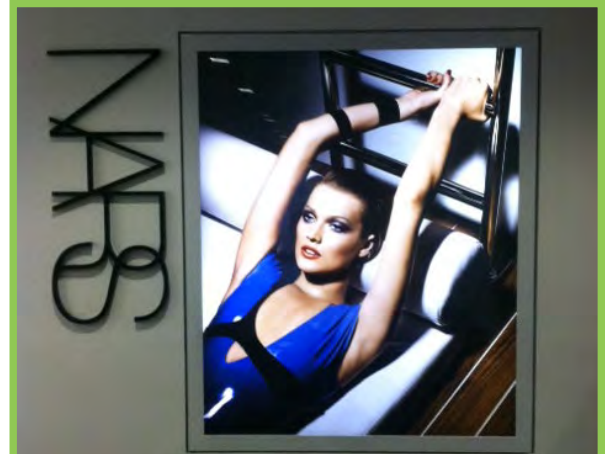
We consult and collaborate with retailers to create powerful, eye-grabbing campaigns. With design, interactive, printing, mounting, fabrication and installation experts all in-house, it gives Duggal an unmatched ability to produce innovative displays quickly and on budget.

- Durable and easy-to-manage portable displays
- Consultation and collaboration with retailers to create powerful, eye-grabbing installations.
- In-house design, interactive, printing, mounting, fabrication and installation
- Window displays utilizing a variety of media from photographic backdrops and CAD Cut vinyl to LED lightboxes and interactive multimedia touchscreens.



# LIGHTBOXES

Duggal designs and fabricates custom lightboxes for indoor and outdoor applications. Our energy-efficient lightboxes transform spaces with dazzling brightness and color consistent LEDs. Duggal's UL-listed facility designs and engineers custom illuminated displays, from ultra-thin LED snap frames to massive, grand format fabric lightboxes.



# SERVICES

## Grand Format

Turn any space into a luminous graphic wall with a custom grand format lightbox engineered by Duggal.

- Grand format lightboxes available up to 15'x45' seamless, with easy graphics swaps and special effect lighting controls.
- Duraclear mounted to Plexi glass for a frameless appearance with long-lasting LED lighting.
- Ultra-thin snap frame LED light boxes

## Fabricated Lightboxes

## Ultra Thin Lightboxes



# EXHIBITIONS & EVENTS

Duggal Global Events is a full service event production company with an unparalleled ability to develop, manage and execute your vision. By incorporating development, design, management, print, fabrication and installation anywhere in the world, Duggal seamlessly integrates all elements with visionary creativity for a lasting impact, while also shortening lead times and reducing cost.

Hundreds of museums nationwide include works printed by Duggal. We take great pride in our global reputation as a go-to resource for exhibition design and installation.



# SERVICES

Exhibitions

Showrooms/Tradeshows

Custom Event Design

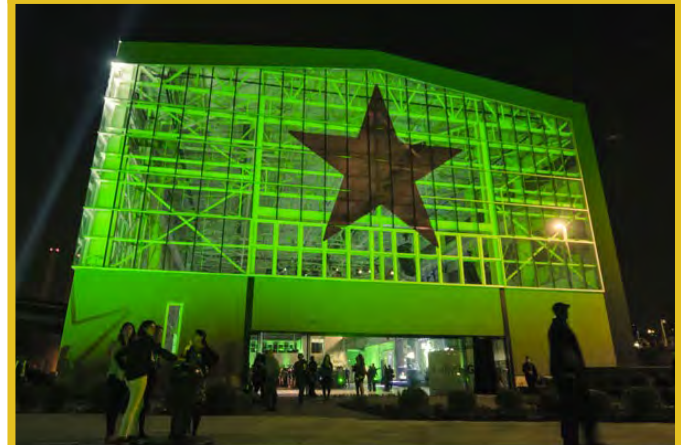
Event Management

The Duggal Greenhouse is a premier venue for any event. Our 35,000-square-foot event space on the Brooklyn banks of the East River features spectacular Manhattan and bridge views, a waterfront patio and bar, catering, secured entry and yacht transportation services.

## D U G G A L **greenhouse**

- Ground floor: 29,190 square feet
- Mezzanine level: 4,750 square feet
- Capacity: 100-3,000
- 600 amps at 208 volts from the cam lock system
- Consulting, planning and custom design
- Theme and decor
- Program development
- Same-day setup

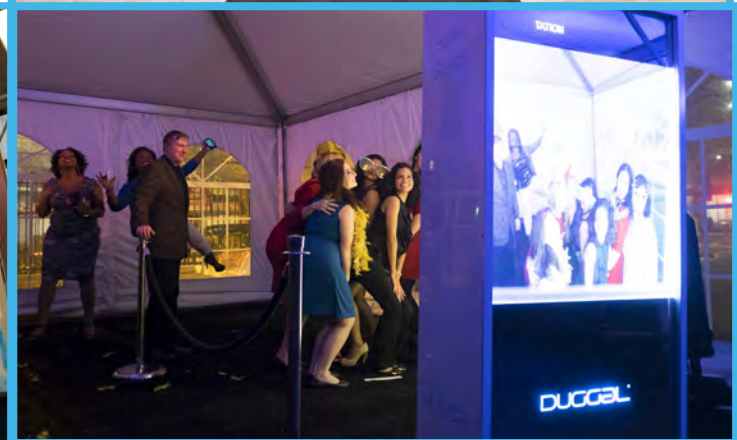
For more information visit [www.duggalgreenhouse.com](http://www.duggalgreenhouse.com)



# DESIGN SERVICES & INNOVATION LAB

Duggal provides graphic design, fixture design, store layout and exhibition staging services. Our full-scale approach includes AutoCAD and VectorWorks 3D renderings, as well as mechanical drawings that our production team can print, fabricate and install anywhere in the world.

Offering a complete set of in-house solutions from design to fabrication and installation, Duggal streamlines workflow while maintaining the highest level of quality and innovation.



# SERVICES

Mechanical Design

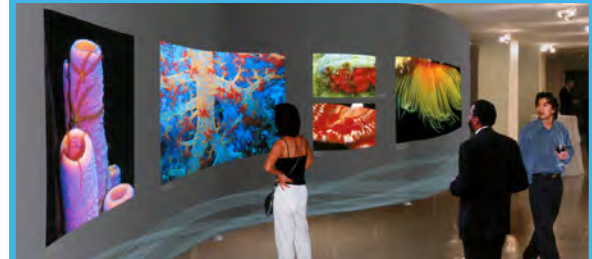
Visual Design

Fixture & Product Design

Innovation Lab

By combining mechanical and visual design with our vast knowledge of substrates, production possibilities and install logistics, Duggal helps stretch creative boundaries with fixtures and visuals of all shapes and sizes. We are proud to be a trusted design partner for museum exhibitions, gallery openings, events and retail campaigns worldwide.

- Duggal designers create highly detailed mechanical drawings.
- From 2D representations and layouts to 3D interactive renderings, we'll help you understand what your graphics and fixtures will look like before production.



# 3D PRINTING & PACKAGING COMPS

Duggal Packaging Solutions partners with corporate marketers, design studios and advertising agencies to create innovative, eye-catching and cost-effective packaging comps and digital short run packaging for all facets of the consumer packaged goods industry.

Duggal Packaging Solutions produces unique, high-resolution packaging comps with a variety of stocks, custom varnishes and embossing effects. Our packaging team offers more than 50 years of combined industry experience encompassing color management, production and consultancy. Our 3D printer can produce models, part facsimiles and prototypes.





# SERVICES

3D Printing & Models

TV Color Correct

Card Comps

Prototype Packaging

Labels

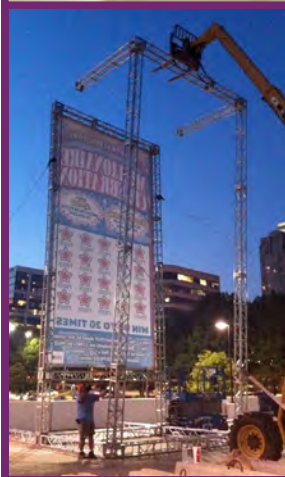
Working directly with Duggal experts in printing, mounting and design, Duggal Packaging Solutions is an unparalleled packaging consultant conveniently located right in the heart of Manhattan's Flatiron District, home to many of the world's leading design and advertising firms.

- Reflective foils
- TV color correct technology
- Custom finishes
- 3D printing



# INSTALLATION & PROJECT MANAGEMENT

Duggal's installation team coordinates logistics, shipping and installations around the world. We complete everything from exclusive single-site exhibition installations to thousand-store installation rollout programs worldwide.



# SERVICES

Retail Store Rollouts

Campaign Management

Fulfillment

Packing

Installation

Duggal serves the indoor and outdoor graphics needs for many of the world's finest retailers. From 1,500-door rollouts involving printing and collating custom graphics packages to custom flagship store displays, we are constantly called on to elevate the retail experience.

- 40,000 square feet of warehouse space to stage, pack, store and ship your order.
- Develop, install and manage print campaigns, digital signage and everything in between.
- In-house fulfillment team experienced in installing fine art in galleries and museums, same-day tradeshow setups and overnight retail transformations.





## VISION TO VISUALS

**DUGGAL**<sup>®</sup>  
29 WEST 23RD STREET NEW YORK, NY 10010