

# HIGH-END DIGITIZATION SYSTEMS

## RAPID CAPTURE SOLUTIONS FOR CULTURAL INSTITUTIONS

The Digital Transitions Division of Cultural Heritage is committed to providing best in class equipment, service, and long-term system support for the cultural heritage community. We understand the importance of digitizing rare collections so that their beauty and distinctiveness can be studied now and in the future. Our core philosophy is to help cultural institutions steward their collections and overcome challenges.

We develop solutions that speak to the concerns of quality, reliability, safety, versatility, and speed – all with an ergonomically sound design that will produce images with unsurpassed quality. We use the best components on the market to ensure our systems are a culmination of the highest quality cameras, lenses, lighting, and digital back technologies available.

Digital Transitions stands behind every product we sell and has the largest technical support team in the U.S. with a division solely dedicated to the cultural heritage community. We work closely with our clients to design and integrate unique solutions – including hardware, software, and training – that will help streamline their workflow. We partner with industry experts; and share our expertise and professional relationships with our client base to ensure they get the most out of their equipment.

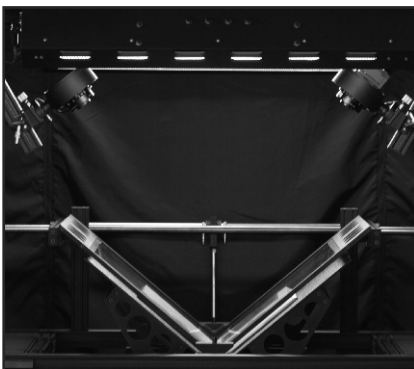
Most importantly, Digital Transitions continues supporting our products long after the sale is complete to guarantee our clients are always productive. The Director of our Division of Cultural Heritage, Peter Siegel, has over 20 years of experience serving the digital photographic needs of museums, libraries, archives, and other cultural institutions. Peter has the necessary expertise to support this community and their requirements for precision equipment and unparalleled training.



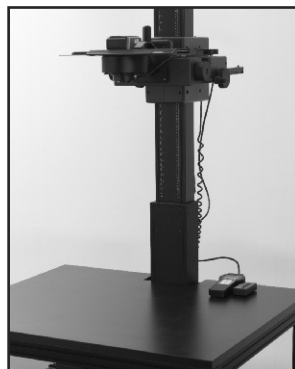
Source: Ms. Codex 1035, Book of hours (Ise of Rouen), image courtesy the Rare Book and Manuscript Library, University of Pennsylvania.

**Protect the integrity of your collections by choosing Digital Transitions as your long-term digitization partner.**

### BC100 BOOK CAPTURE SYSTEM



### DT RG3040 REPROGRAPHIC SYSTEM



### DT RCAM REPROGRAPHIC CAMERA



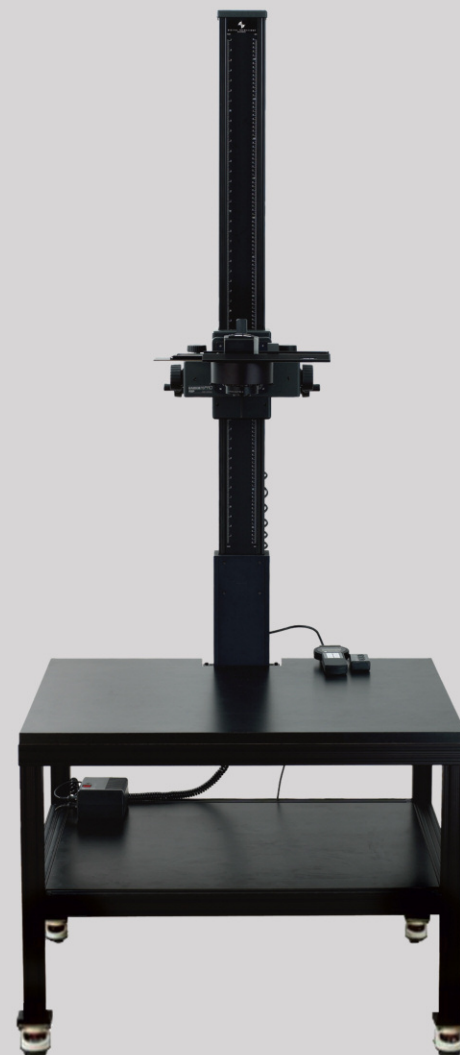
## DT RG3040 Reprographic System & DT RCam Reprographic Camera

**Cultural institutions have the arduous task of achieving perfection when digitizing their collections.**

To make certain these images stand the test of time, it is imperative that they have the finest tools available on the market. Digital Transitions' DT RG3040 Reprographic System was developed to meet the high demands of the cultural heritage community while protecting the integrity of the materials. This system, with its electronically controlled column, fully aligned components, and casters with adjustable and retractable dampeners, optimizes ease of use while ensuring the creation of superior digital images every time. The DT RG3040 Reprographic System is also designed for use with virtually any camera, lens, or shutter system in order to prevent obsolescence.

Digital Transitions has developed our own reprographic camera to integrate perfectly with the DT RG3040 Reprographic System. The DT RCam is a versatile camera built from the ground up with the highest quality components and is designed to work with the widest variety of today's modern digital backs. This superior construction ensures durability, precision and quality that will exceed the highest standards. What sets the DT RCam apart from other cameras on the market is its innovative helical focusing system that allows precise focusing and will not drift.

Whether you prefer to use your existing equipment or invest in the industry's highest resolution digital backs, Digital Transitions' reprographic systems enable you to choose what works best for your institution's requirements and budget – now and in the future.



*RCam shown with stitching adapter. Digital back can also be mounted directly to the camera.*

### DT RCam FEATURES & BENEFITS

- Built to .005 tolerances to ensure image and focal plane are in perfect alignment
- Extremely accurate helical focusing system
- Compatible with a wide variety of digital backs
- Built with the industry's leading components
- Mechanical or electronic lens options
- Ability to stitch images together for maximum resolution
- Perfect integration with the DT RG3040 Reprographic System

### DT RG3040 IDEAL USES

- Archiving of books, manuscripts, and serials
- Bound materials
- Objects to be restored
- Maps and blueprints
- Documents, seals, and coins
- Transparent objects up to 18.9" x 17.3"
- Glass negatives
- Historic glass paintings
- Rare materials such as valuable graphics, pictures and paintings
- Industrial measuring and testing
- Material analysis, research and development
- Reproductions to visualize structures

## BC100 Book Capture System

**The only high quality rapid capture digitization solution on the market.**

Built on the success of our DT RG3040 Reprographic System, we have developed a new book capture system that will redefine the way library materials are digitized. The new BC100 is the only true 48 bit system on the market that will meet the high demands of cultural institutions by providing the highest image quality, speed, and reliability needed to capture a wide variety of bound and loose materials — all while protecting the original documents.

Designed for the mass digitization of books, the 100° bonded v-shaped anti-reflective glass platen and adjustable book cradle secures and holds the largest variety of bound materials with page sizes larger than 17" x 24" or A2 size per side. These combined components keep the focus plane the same while being gentle on the binding of the book. The glass platen of the BC100 is designed with a pneumatic lift system to increase productivity while protecting the books, and is incapable of free falling. To ensure the safety of the binding, the mechanism of the book platform slides back and forth and then sets to make certain that the glass platen is always in the middle of the book's gutter. The platform rests on a controllable support system that may be adjusted by the operator for different book types. This system has been designed to address the shortcomings of traditional robotic systems, including lack of quality control, a tendency to skip or damage fragile pages and the need for manual assistance.

The BC100 has also been constructed with the comfort of the operator in mind. The operator sits in the station and controls the system with a variety of foot and/or hand releases, thereby preventing repetitive stress injury. All operations are within arm's length and the lights are at a pleasant level. There are extra shelves allowing the operator to have computer displays and other equipment nearby.

The modular design of the BC100 allows the camera and capture device to be upgraded when necessary, ensuring that it will not become obsolete. It is fabricated with airplane grade extruded aluminum to .005" tolerances, so it will not break down after years of continuous use. The versatile features and reliability of the BC100 make it the ideal solution for all of your mass digitization projects.



*BC100 shown with two DT RCam Reprographic Cameras using 40 megapixel high resolution digital backs.*

### FEATURES & BENEFITS

- **Dual Camera Book Capture System with incredible rate of capture**
- **Capable of shooting bound and loose materials, including works on paper, serials including newspapers, loose manuscripts, photos, drawings, etc.**
- **100° anti-reflective glass platen enables the digitization of up to 6" bindings and page sizes larger than 17" x 24" or A2 size per side**
- **Delivers preservation grade TIFFs, JPEGs, and PDFs in RGB, grayscale, and CMYK modes. Open Source Raw and DNG also supported.**
- **The only true 48 bit system on the market**
- **Operated by foot and/or hand releases**
- **Four retractable vibration dampening casters**
- **Open platform design allows camera and capture devices to be upgraded, thereby preventing obsolescence**
- **Variable resolution options available**
- **Compatible with our DT Reprographic Systems for increased versatility**
- **Easy to operate**
- **Durable design for years of continuous use**

# PRODUCT SPECIFICATIONS



## DT RG3040 SPECIFICATIONS

### Table and Column

Designed, manufactured, and installed to exacting tolerances, the DT RG3040 creates the highest quality images. It includes:

- A 30" x 40" reprographic table with a heavy heavy duty, motorized column with variable speeds. Customized table sizes available.
- Fully aligned components CNC (Computer Numerical Controlled) machined to .005" to ensure even focus across image plane.
- A recessed utility shelf to hold lighting equipment and accessories. Also enables the user to sit at the station comfortably.
- Four leveling and dampening retractable casters for mobility, work surface alignment, and elimination of table vibration to ensure the highest quality reproduction.

*All features can be customized.*

### Table

**Table Materials:** Black anodized extruded aluminum

**Table Foot Print:** 42 3/4"W x 36 1/2"L

**Gross Foot Print:** 42 3/4"W x 47 1/4"L

**Working Table Height:** 30" (approx)  
Total height with extension collar is 96 1/2"

**Column Height:** 60"

**Column:** 2 speed, rapid and precise

**Column Carriage:** Universal camera mounting system (positive click-stop center +/- 90 degrees of rotation)

**Feet:** Four leveling and dampening retractable casters

**Operating Voltage:** 110-120 V 50-60 HZ

**Weight of Column:** 43 lbs 3 oz

**Extension Plate/Collar:** 13 lbs

**Shipping Weight:** 545 lbs (in wood crate)

### Optional Accessories

- Laser Alignment System
- Pattern Holders
  - Book Cradles
  - Vacuum Boards
  - Transmissive Light Sources
- Integrated Lighting Support
- Strobe and/or Continuous Lighting
- Swivel Shelf
- Customized Table Sizes
- Film Capture Solutions
- Custom & Specialized Targets
  - Near-Neutral or Near-White Colors
  - Book Scanner Form Factors
  - Oversized Targets

## DT RCAM SPECIFICATIONS

**Materials:** Aircraft grade aluminum with a black anodized finish

**Camera:** Focusing mount with 20mm of travel

**DT Rcam Body:** 6" Diameter

6.25" across at the lens board knobs

3.05" High

**Weight:** 4 lbs 15.5 oz

### Accessories

- Extension tubes for close-up photography
- Digital Back Adapters
- Tripod Collar (to adapt DT RCam to studio tripod)

## BC100 SPECIFICATIONS

**Materials:** Frame is made from black anodized extruded aluminum, custom brackets are made from black anodized aircraft grade aluminum. Glass is anti-reflective

**Overall Dimensions:** 7'H x 6'5"W x 5'D

**Footprint:** 6'W x 5'D

**Glass Platen Dimensions:** 24.9" x 17.48" on each side

**Book Binding Limitations:** 6" binding

**Working Table Height:** 30"

### Accessory & Monitor Shelf Dimensions:

Side shelves are 19" x 34" black laminate

**Compressor:** .5 HP with a 6.3 gallon tank

**Operating Voltage:** Compressor Power Requirements: 115V/50-60Hz

**Operating DB Level:** Compress -40 dB

**Compressor:** 115V/60W

**Power:** Supplied with two 8 outlet 15 Amp power strips

**Feet:** Four leveling and dampening retractable casters

**Lighting:** LED Lighting Included

**Camera Mounts:** 3" quick release plate

**Crated Weight:** 1225 lbs  
(Large Crate: 960 lbs; Small Crate: 260 lbs)

### Accessories

- Custom & Specialized Targets
  - Book Scanner Form Factors
- Cable Management
- Compressor

*Specifications subject to change.*



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