

For Immediate Release

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DCA Delivers Major Update to G2 Imaging System

Cushing, OK (July 8, 2013) – Today, Doug Carson & Associates, Inc. (DCA) announced major updates to its G2 Imaging product line currently used by optical disc mastering facilities.

DCA's G2 Imaging system, originally launched in 2011, now includes innovative features supporting new application markets including:

- Very long-term data archival
 - Extremely small microscope-readable text and drawings
- Document security (computer-generated holograms)
- Jewelry, tooling inserts (diffractive optical elements)

DCA's G2 system now includes a Disc Layout Tool allowing customers to automatically "stitch" together multiple pages or drawings in an X:Y grid, controlling their size and location on the wafer. The stitching program creates a proprietary-format bitmap composed of almost one-half trillion pixels. The G2 system also includes an Image Extractor to verify and view the layout of the stitched-together image.

As an example of data archive, the entire 31,102 verses of the Bible made up of 788,258 words in the New and Old Testament (KJV) was mastered on a 1.5mm diameter circle (the size of a dime.) The text is printed in 0.006 point size and is clearly legible with a 400x-magnification microscope.

The DCA G2 system can master an archive of over 81,000 pages of eye-readable text or pictures on a 150mm wafer 10,000 times faster than current focused ion beam technology. When fabricated on a nickel shim, the archive would last for a duration of over 10,000 years and withstand heat to 2,647 degrees F.

"We are extremely excited about the opportunities G2 can bring to existing mastering facilities", said Doug Carson, founder of DCA. "The G2 system is a unique enhancement to DVD-class laser beam recorders."

About DCA, Inc.

DCA, Inc., Doug Carson & Associates, (<http://www.dcainc.com>) is the industry's leading provider of signal processing and format creation technology for the optical disc manufacturing industry. Since 1988, Optical Disc manufacturers have relied on DCA's pre-mastering, mastering and verification products. Format creators have come to rely on DCA for anti-piracy ideas and format design tools. Content producers now begin to rely on DCA for digital video analysis tools, including file-based verifiers.