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SEMICONDUCTORS AND DIGITAL IMAGING SOLUTIONS

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DALSA Semiconductor Division Builds Chips For NASA Mars Rover Missions

Posted 6/10/03

Waterloo, Ontario, June 10, 2003 - DALSA Corporation (TSX: DSA) announced today that the CCD image sensor chips onboard the two Mars Exploration Rover (MER) missions were manufactured at the company's semiconductor division in Bromont, Quebec. The space-qualified chips, which are part of sophisticated camera systems for navigation and scientific investigation, were designed in collaboration with NASA's Jet Propulsion Laboratory (JPL) in Pasadena, California.

The chips are critical components in the nine electronic cameras aboard the two identical Mars Rovers. Each camera integrates a scientific-grade, 1024 x 1024 pixel CCD image sensor which was fabricated in close collaboration with engineers at JPL and manufactured at the DALSA Bromont wafer foundry. Three of the cameras on the Rover are responsible for scientific investigation while six others aid in navigating the vehicle on the surface of Mars. The cameras will serve as the vehicle's "electronic eyes", as it examines its landing site for geological evidence of past liquid water activity and past environmental conditions hospitable to life.

The two Panoramic Cameras (Pancam), which use the DALSA-manufactured chips, are the most sophisticated color imaging systems ever sent to the surface of another planet. The pair of Pancam stereo cameras is located on a "camera bar" that sits on top of the mast of the Rover. The two cameras will take high resolution views of the surface and sky through eight different colored filters. Pancam's mast assembly allows the cameras to rotate a complete 360° while the camera bar itself can swing up or down through 180° of elevation. This allows the cameras to generate panoramic image mosaics as large as 4,000 pixels high by 24,000 pixels around.

"We couldn't be more pleased to be a part of this," commented Dr. Savvas Chamberlain, CEO of DALSA Corporation. "I am very proud of our CCD technology, and we're thrilled that NASA JPL recognized the advanced technology available at our Bromont facility for the demanding needs of their Mars mission. The employees at the facility delivered image sensors of very high performance, complexity and sophistication, marking their contribution to this landmark achievement in space exploration."

Both Mars Rovers have been built, managed and operated for the NASA Office of Space Science by the Jet Propulsion Laboratory, a division of the California Institute of Technology. They are planned to launch from Cape Canaveral Air Force Station in Florida. The first mission, MER-A, is targeted for the week of June 8th, with the second launch, MER-B, slated for June 25th. After a seven-and-a-half month cruise, the first Rover should enter Mars' atmosphere in early January, 2004, with the second Rover reaching the Martian surface approximately three weeks later.

About DALSA Corporation

DALSA is an international high performance semiconductor and electronics company that designs, develops, manufactures, and markets digital imaging products and solutions, in addition to providing wafer foundry services. DALSA's core competencies are in specialized integrated circuit and electronics technology, and highly engineered semiconductor wafer processing. Products include image sensor components; electronic digital cameras; and semiconductor wafer foundry services for use in MEMS, power semiconductors, image sensors and mixed-signal CMOS chips.

DALSA is a public company listed on the Toronto Stock Exchange under the symbol "DSA". Based in Waterloo, ON, Canada, the company has operations in Bromont, PQ; Colorado Springs, CO; Tucson, AZ; Eindhoven, NL; Munich, Germany and Tokyo, Japan.

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News

6/10/03: DALSA Semiconductor Division Builds Chips For NASA Mars Rover Missions. JPL-designed CCD chips, part of navigation and analysis camera systems, were manufactured at Bromont, Quebec foundry [Read more...](#)

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5/14/03: DALSA Corporation Announces \$9 Million MEMS Production Order. Chips for automotive applications will be delivered over the next 18 months [Read more...](#)

5/5/03: DALSA Corporation Announces Major Camera Orders. Three major camera orders from Asian flat panel display (FPD) inspection instrument manufacturer total over \$1.8 million. [Read more...](#)

5/1/03: DALSA Posts Strong Semiconductor Sales in First Quarter 2003. Earnings on track despite soft US dollar and seasonal Digital Imaging Business trend [Read more...](#)

4/23/03: DALSA Corporation Announces Next Steps for Digital Cinematography Camera. Field trials and user tests in 2003 [Read more...](#)

4/21/03: DALSA Digital Cinematography Camera Receives Two Major Industry Awards at NAB 2003. Digital Cinema Magazine's "Premiere Product Award" and the "2003 Mario Award" from TV Technology Magazine. [Read more...](#)

4/16/03: DALSA Corporation Announces Resignation of Vice President Finance. Personal decision to relocate family [Read more...](#)

4/16/03: First Quarter 2003 Results & Online Conference Call Notification. May 1, 2003, 5:15 PM ET [Read more...](#)

4/8/03: DALSA Corporation Launches Digital Cinematography Camera. First sequences from prototype screened at National Association of Broadcasters convention [Read more...](#)

3/9/03: DALSA Corporation Announces \$2.1 Million Sensor Development Contracts. Two contracts for custom, high performance image sensor: total value over \$2.1 million [Read more...](#)

3/6/03: DALSA Corporation Announces \$5.5 Million Sensor Production Order. Leading broadcast television camera producer will take delivery over next 36 months [Read more...](#)

2/17/03: DALSA to Debut Digital Cinematography Camera at NAB2003. New camera to revolutionize digital image capture for motion pictures [Read more...](#)

2/13/03: DALSA CTO Presents at ISSCC Conference. Dr. Albert Theuwissen presents paper on Digital Cinematography designs at IEEE International Solid-State Circuits Conference [Read more...](#)

2/6/03: Fourth Quarter Results: DALSA Doubles Annual Revenue in 2002 Year End Results. Fourth quarter earnings consistent with previous goals and conclude DALSA's most financially successful year in its history. [Read more...](#)

1/31/03: \$2.2 Million Camera Production Order for Semiconductor Capital Equipment. Cameras to be used by leading producer of capital equipment in new generation of fabrication tools [Read more...](#)

11/15/02: DALSA Corporation Announces Completion of Bought Deal of Treasury and Secondary Common Shares. 1,150,000 Common Shares sold at a price of CDN\$16.00 per Common Share to a syndicate of underwriters led by Yorkton Securities Inc. [Read more...](#)

11/7/02: DALSA Corporation Bought Deal of Treasury and Secondary Common Shares Increased to CDN\$34.4 Million. Underwrite will now purchase 2,150,000 Common Shares [Read more...](#)

11/6/02: DALSA Corporation Announces CDN\$32.0 Million Bought Deal of Treasury and Secondary Common Shares. Sale of 2,000,000 Common Shares may be used for the reduction of debt so that the Company can consider investments or acquisitions [Read more...](#)

10/31/02: DALSA Corporation Reports 236% Growth in Year Over Year Earnings. Technology Leadership Continues to Deliver Consistently Positive Result [Read more...](#)

10/28/02: DALSA Corporation Third Quarter 2002 Results & Online Conference Call Notification. Conference Call November 1, 2002, 8:45 AM ET [Read more...](#)

10/24/02: DALSA once again named one of Canada's Top 100

Employers. 2003 honor continues from 2002 [Read more...](#)

10/3/02: DALSA Acquires Full Ownership of its Semiconductor Wafer foundry. \$6.5M Purchase of remaining 14.5% makes DALSA Semiconductor a wholly-owned subsidiary of DALSA Corporation [Read more...](#)

9/20/02: DALSA's Digital Cinema Initiative Receives \$1.7 Million R&D Investment. Technology Partnerships Canada supports DALSA's developments in next generation digital cinema capture. [Read more...](#)

9/16/02: DALSA Announces Image Sensor Shipments to Major Digital Photography Camera Manufacturer. Shipments worth up to \$2.6M of megapixel sensors for Kyocera Contax N Digital professional and prosumer cameras [Read more...](#)

8/19/02: DALSA to Manufacture MEMS-Based sensors for Motorola Volume production will start ramping up in August for sensors serving automotive, industrial and healthcare applications [Read more...](#)

8/1/02: Second Quarter 2002 Results: Impressive Revenue and Earnings Growth. Strong results from all operating units, including recent acquisitions combined to produce most successful quarter to date [Read more...](#)

7/29/02: DALSA Q2 2002 Results & Online Conference Call Notification. Conference call August 2, 2002, 8:45 AM ET [Read more...](#)

7/18/02: Major Life Sciences Camera Order. Order worth \$3.6M over next 18-24 months. [Read more...](#)

7/16/02: DALSA Reports Major Power Semiconductor Order. DALSA Semiconductor division receives a major order for power semiconductor wafer foundry services. [Read more...](#)

5/23/02: DALSA Reports Successful MEMS Technology Transfer. Semiconductor foundry begins producing MEMS-based sensors for Kavlico Corp. [Read more...](#)

5/10/02: Investor Overview Presentation. An overview of the corporation and its divisions, including markets, strategies, earnings, and outlook. [Read more...](#)

5/2/02: DALSA Reports Solid Earnings for First Quarter 2002. Closing of two acquisitions poises company for strong revenue growth [Read more...](#)

5/1/02: Major Orders from Semiconductor Capital Equipment Manufacturers. Additional orders from wafer inspection and flat panel display manufacturers total \$1.7M [Read more...](#)

4/19/02: DALSA Semiconductor Earns 2001 Motorola Gold Performance Award. Bromont foundry excels in on-time delivery, process improvement and systems implementation once again [Read more...](#)

4/1/02: DALSA Completes Acquisition of Philips CCD Image Sensor Business. \$9.7-million, all-cash transaction becomes official. [Read more...](#)

3/26/02: DALSA Reports Large Order for Image Sensor and Digital Camera Development. Over \$1.9M (CDN) order placed by one of the world's largest semiconductor capital equipment manufacturers. [Read more...](#)

3/19/02: Purchase Agreement signed for Philips CCD Image Sensors Business. Sale and Purchase Agreement confirms the purchase for (CDN) \$9.7M [Read more...](#)

- 3/18/02: Open House and Annual Meeting of Shareholders: March 27.** Public welcome to tour facilities at Open House, 1:30-3:30pm; Annual Meeting of Shareholders, 4pm [Read more...](#)
- 2/22/02: DALSA Completes Semiconductor Foundry Acquisition.** Takes controlling interest of Zarlink semiconductor wafer foundry in Bromont, Quebec. [Read more...](#)
- 2/4/02: Piranha2 line scan cameras move into full production.** 6k at 8k models shipping in volume. [Read more...](#)
- 1/31/02: DALSA Reports Strong Earnings in 2001 Fourth Quarter and Year-End Results.** Positive Results Continue Despite Difficult Economic Conditions [Read more...](#)
- 1/25/02: DALSA Corporation Issues Cdn\$23M in Bought Deal Special Warrants.** Proceeds will be used in Zarlink Foundry purchase. [Read more...](#)
- 1/23/02: DALSA to Acquire Philips' CCD Business.** Agreement for Eindhoven, Netherlands unit could involve 60 employees and \$20M revenues. [Read more...](#)
- 1/21/02: DALSA to Acquire Bromont Semiconductor Wafer Foundry from Zarlink.** \$21.6M cash acquisition gives 80.1% stake in new DALSA Semiconductor Inc. division, advances DALSA's Strategy for Growth. [Read more...](#)
- 1/17/02: DALSA Reports Large Order from Major Semiconductor Capital Equipment Manufacturer.** \$1.4M deal for highly specialized image sensor and digital camera; delivery over the next 18 months. [Read more...](#)
- 1/14/02: DALSA Reports Large Order for High Resolution Image Sensors.** \$4.5M order includes option for \$2.2M extension; delivery over two years [Read more...](#)
- 12/14/01: DALSA named one of Canada's Top 100 Employers.** Members of the list stand out from others in their industry in attracting and retaining quality employees. [Read more...](#)
- 12/13/01: DALSA Reports Large Order for High Speed Digital Cameras.** DALSA announces a large and significant order for its high speed digital camera products. [Read more...](#)
- 11/7/01: DALSA Establishes Revenue and Earnings Goals for 2002** Overall revenue expected to grow 15% to 20%, EPS target \$0.60-0.65 [Read more...](#)
- 10/30/01: DALSA Presentations from Vision Show East.** Compare the price-performance of area and line-scanning approaches to the same machine vision applications [Read more...](#)
- 10/25/01: DALSA Third Quarter 2001 Results: 18% Revenue Growth YTD.** Profitability Continues with \$0.11 EPS from Operations [Read more...](#)
- 10/9/01: DALSA Adds 6M18 and 4M30 Models to DALSTAR Line.** Unrivalled performance with higher resolutions, higher frame rates for film scanning and high end inspection applications [Read more...](#)
- 9/17/01: DALSA Executes on Plans to Expand Market Penetration in Japan.** DALSA announces an expansion in Japan, one of the largest centers for the semiconductor and electronics marketplace. [Read more...](#)
- 7/26/01: DALSA Corporation Reports Second Quarter 2001 Results:** Year to date sales growth of 25% despite economic slowdown. [Read more...](#)

7/1/01: DALSA Researchers Present New Designs At IEEE Imaging Conference. Three papers showcase new CCD and CMOS designs. [Read more...](#)

6/21/01: DALSA Corporation Ranks in Canadian Business Tech100 Top Technology Companies. DALSA is pleased to announce that it has been recognized in CB Tech100's annual listing. [Read more...](#)

6/19/01: DALSA Corporation Revises Current Year Outlook. Economic slowdown in semiconductor and electronics industries expected to impact 2001 growth. [Read more...](#)

6/4/01: DALSA launches "DALSTAR"—the universal brand for high performance Area Scan. DALSA announces the branding of its high performance area scan camera family "DALSTAR." [Read more...](#)

5/16/01: DALSA Featured on ROBTv--view the webcast. View webcast interview with President Brian Doody on Canada's premier all-business channel. [Read more...](#)

4/26/01: DALSA Corporation Reports Revenue Growth of 56% First Quarter. 56% revenue growth enables strategy for growth implementation. [Read more...](#)

4/25/01: International Space Station Succeeds with DALSA Cameras. Canadarm2 uses DALSA's world-class camera technology to provide the "electronic eyes" which allow it to see and function from 300 km above the earth's surface. [Read more...](#)

3/27/01: DALSA Announces New High-Speed Multi-Megapixel Camera. DALSA announces the release of its 4M25 multi-megapixel digital camera. [Read more...](#)

3/6/01: DALSA 2000 Annual Report. DALSA releases 2000 Annual Report. [Read more...](#)

2/1/01: 2000 Fourth Quarter and Year-End Results. DALSA announces strong revenue growth of 40% over 1999. [Read more...](#)

1/22/01: DALSA lets loose Piranha2-- the world's fastest, most responsive line scan camera.. DALSA announced today the release of PIRANHA2--small-footprint, line scan camera capable of an unparalleled 160MHz data rate. [Read more...](#)

11/28/00: DALSA Announces Partnership with Rad-icon Imaging Corporation for Large Area Digital Radiography CMOS Sensors. The two companies will jointly develop, manufacture, market and support digital radiography components and sub-systems for the medical marketplace. [Read more...](#)

11/24/00: DALSA Corporation Announces Appointment of New Vice President of Finance. Peter Voss brings substantial experience and knowledge to demanding position. [Read more...](#)

11/16/00: DALSA Corporation Announces Management Change to Support Growth Strategy Initiatives in Key Vision Markets. New and aggressive corporate strategy will exploit core technologies and launch DALSA into new and more visible markets. [Read more...](#)

8/16/00: DALSA Enters Emerging CMOS Image Sensor Market. Ultra high-speed CMOS Image Sensor delivers 20,000 frames per second [Read more...](#)

4/27/00: 2000 First Quarter Results and Announcements. DALSA announces revenue growth of 39% and a planned stock split. [Read more...](#)

3/23/00: 2000 Annual General Meeting Presentation. Download and view the Powerpoint slides from the presentations at our 2000 Annual General Meeting, held March 23, 2000. [Read more...](#)

11/22/99: DALSA Acquires MedOptics Corporation. \$4.5M acquisition focuses on medical imaging. [Read more...](#)

6/23/99: DALSA Acquires Silicon Mountain Design. \$11.5M acquisition of high-performance area camera expertise provides access to new industrial markets and expands ability to provide leading-edge technology. [Read more...](#)

The information posted here was accurate at the time of posting, but may be superseded by subsequent news releases.

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