CRYSTAL instruments







LEADING INNOVATION IN VIBRATION TESTING, DATA ACQUISITION, AND CONDITION MONITORING

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"We believe in innovation. Innovation leads to higher quality, better solutions, and superior products. Our team's commitment to leading innovation in our industry is a great source of pride for Crystal Instruments."

- James Zhuge Ph.D, President and CEO of Crystal Instruments

CRYSTAL INSTRUMENTS

Founded in 1996, Crystal Instruments is a leading manufacturer of equipment for dynamic measurement, signal analysis, and vibration testing. Crystal Instruments is headquartered in Santa Clara, California, the center of Silicon Valley.

Crystal Instruments founders James Zhuge Ph.D and Justin Tang previously founded Dactron, which established industry benchmarks with innovative technology such as the integration of USB connectivity. (Dactron was later acquired by LDS, which in turn was acquired by Bruel & Kjaer.) Zhuge and Tang continue the tradition of innovation with Crystal Instruments today, driving the development of the most technologically advanced products available in the market.

RECORD OF SUCCESS

Crystal Instruments has consistently exceeded sales expectations each year, almost doubling sales revenues on a yearly basis in the last five years. This record of success has expanded to over 40 countries in the world where Crystal Instruments is distributed.

INNOVATIVE AND QUALITY ENGINEERING

Justin Tang, the Vice President of Engineering at Crystal Instruments, has over 20 years of engineering experience in developing test and measurement instruments. Justin has personally developed over 25 highly successful products.

NOTABLE ACHEIVEMENTS

- 1998: Crystal Instruments released the world's smallest dynamic signal analyzer in a type-II PCMCIA form factor. It was the first vibration analyzer in the world using sigma-delta A/D converters.
- 2007: CI introduced the CoCo-80, the first handheld data recorder, real-time dynamic signal analyzer, and vibration data collector that matches the performance of high-end lab-quality instrumentation.
- November 2007: The US patent office granted CI an important patent, #7302354. This innovation provided an advanced technique that can greatly increase measurement dynamic range and accuracy. All Crystal Instruments products are using this patented technology today.
- 2009: CI introduced the Spider-80, a highly scalable network-based dynamic measurement system that can measure up to 1024 dynamic input channels with full data recording capability.
- 2011: CI introduced the 4th generation of vibration controllers, the Spider-81.
- 2012: Crystal Instruments received ISO 9001:2008 certification, reaffirming dedication to high quality products. Crystal Instruments India Private Limited is established.
- 2012: Crystal Instruments released the Spider-HUB, an industrial ethernet switch with networked accuracy up to 20ns.
- 2013: Spider-80X is released, based on the Spider-80 design. Features two additional tachometer channels and the ability to stream data directly to a Network Attached Storage Device (Spider-NAS).



Justin Tang, Vice President of Engineering at Crystal Instruments

PARTNER RELATIONS

Crystal Instruments is proud to support several of the most sophisticated developers of aerospace, aviation, and automobiles. Crystal Instruments also supplies to the largest predictive maintenance program in the United States, which is managed by the United States Navy.

Recent customers include many notable industry leaders:

Intel, NASA, Toyota, Boeing, Agilent, United States Navy, United States Army, Gulfstream, General Motors, Canada Defense, Lockheed Martin, L3 Communications, John Hopkins University, Lawrence Livermore National Lab, United States Department of Transportation, AeroViroment Inc, Allegiant Air Inc, Ball Spin Engineering, Bauer Compressors Inc, Bosch, Bridgestone, ConocoPhilips Co. Corr Comp Co., Crescent Petroleum, Exonn Mobile, GE Aviation, GE Medical Systems, GE HealthCare, Goodyear Tire, and WYLE Labs.

ISO 9001 CERTIFIED - QUALITY POLICY

Crystal Instruments is dedicated to supplying high quality products which meet and exceed the requirements of our customers in a manner consistent with ISO 9001:2008 requirements. The Crystal Instruments management team is committed to continuous improvement and employee involvement towards customer satisfaction.



UNPARALLELED SUPPORT

Crystal Instruments is dedicated to furthering the success of our partners. Furthering success means pairing innovative products with dedicated support. CI team members are always available to provide solutions.

Support services available to our distributors include:

- Marketing: Crystal Instruments' marketing team provides customized sales materials to help distributors sell CI products. Materials include posters, flyers, advertisements, and web graphics. Specific requests are also encouraged.
- Technical Support: Crystal Instruments' team is always available to guide and assist our partners. Partners can request onsite visits, phone support, and online support. Emailed questions are answered in 24 hours or less.
- Staff Training: Crystal Instruments' engineers are available for onsite training sessions. These training sessions have a high record of success and has proved invaluable to CI partners.
- Native Language Support: Crystal Instruments' staff includes team members fluent in Spanish, Mandarin, Cantonese, Taiwanese, Japanese, Persian, Hindi, Zulu, and Afrikaans.

Contact Crystal Instruments' International Sales Manager for further details regarding support activities.

"The high level of technical support from Crystal for both pre and post Sales activity's enables us to confidently enter into discussions with customers for their requirements with the full knowledge that Crystal will be supporting us from initial discussions all the way through to the completion of the project."
- Stuart Vale, THP Systems Ltd (Crystal Instruments UK Distributor)







CRYSTAL INSTRUMENTS PRODUCT LINE

With a commitment to innovation, Crystal Instruments' engineers constantly seek out new improvements in product design. No part is left untouched; from supporting software to supporting accessories.

Crystal Instruments' product line features the latest advances in technology and design. Several products in the Spider line integrate IEEE 1588 precision time protocol technology to enable the most accurate time synchronization. The CoCo-80 is available in 2-16 channel configurations and can perform numerous functions required by industry professionals.

Demonstration units are available for Crystal Instruments partners. Contact Crystal Instruments' International Sales Manager for more information.

(1) CoCo-80 & CoCo-90
The CoCo-80 is a handheld data recorder, dynamic signal analyzer, and vibration data collector. It is a low cost, lightweight, battery powered system with lab quality performance and accuracy. The CoCo-90 is an upgraded version featuring 16 channels.

(2) SPIDER-80X
The Spider-80X is a highly modular, truly distributed, scalable dynamic measurement system introduced by Crystal Instruments. The Spider-80X excels in industries demanding quick and accurate data recording in addition to real-time signal processing.



(3) SPIDER-NAS
Spider-NAS (Network Attached Storage) is a dedicated storage device that works with front-end modules from Crystal Instruments, including the Spider-80X, Spider-81, and Spider-DAQ.

(4) SPIDER-HUB
The Spider-HUB Ethernet switch supports the latest IEEE 1588v2 technology. The Spider-HUB guarantees time-stamping accuracy within 50 nanoseconds.

(5) SPIDER-81B
The Spider-81B meets the requirements of basic vibration testing applications. It features 4 inputs, 1 output, and 4 pairs of digital I/O. The Spider-81B software includes the Random, Sine, Shock, and RTD testing suites.

(6) SPIDER-81
The Spider-81 is a highly modular, distributed, scalable vibration control system developed by Crystal Instruments. It can operate in PC tethered or in Black Box mode. Spider modules on the same network can be synchronized with up to 100ns accuracy.

(7) COMING SOON: SPIDER-DAQ
The Spider-DAQ builds on the proven performance and reliability of Crystal Instruments Spider platform. It combines miniature-sized 8B isolated signal conditioning modules to provide a compact package for use in a wide range of industrial applications.



* Continuous product development and innovation is Crystal Instruments policy. Therefore, we reserve the right to change product specifications without prior notice.

CONTACT INFORMATION FOR LOCAL REPRESENTATIVES AVAILABLE AT WWW.GO-CI.COM



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