

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

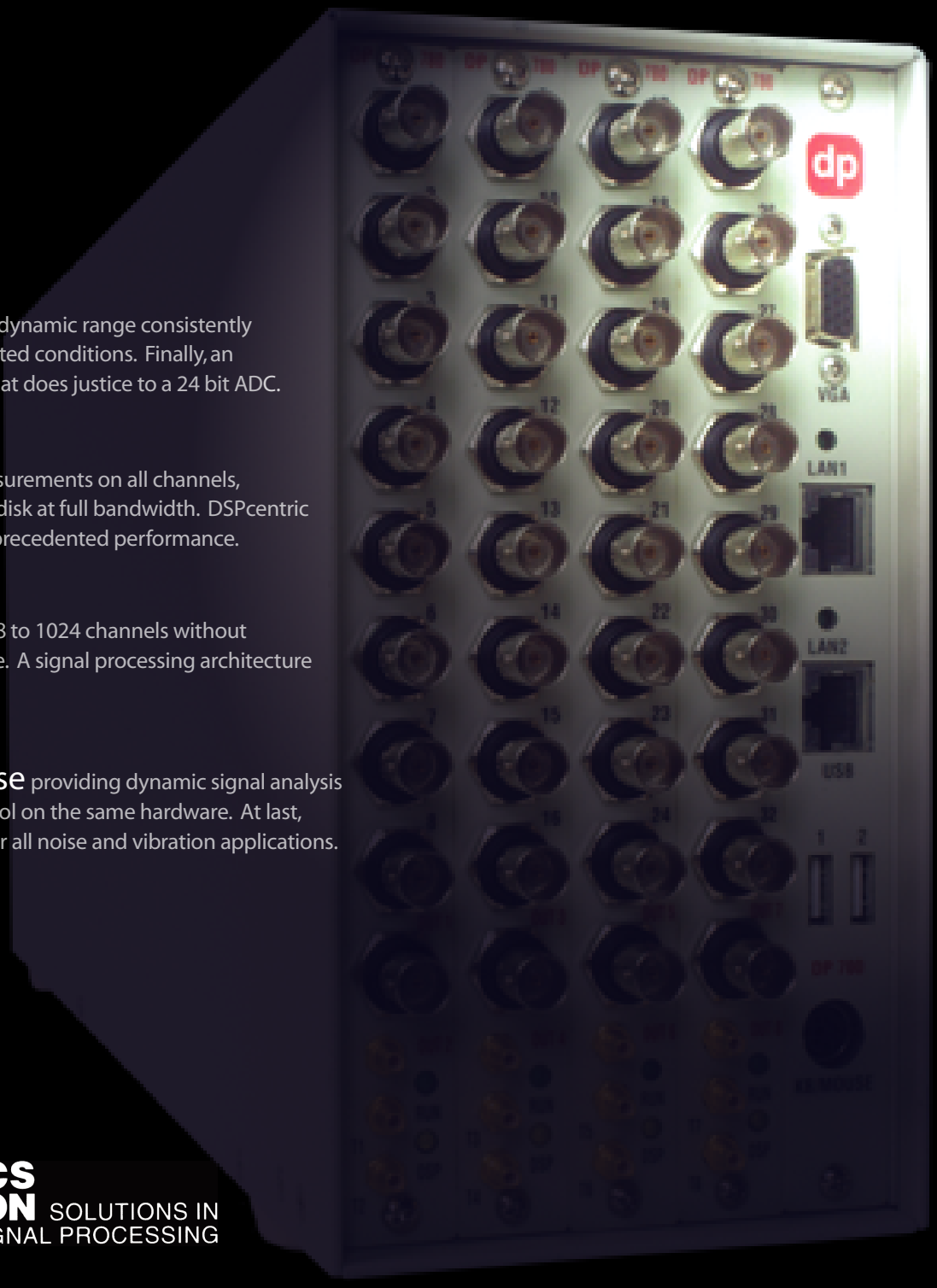
Visit our website - *Click HERE*

In 1989 we brought vibration control to a PC when it was thought impossible.
In 1996 we designed what is still the industry's smallest FFT Analyzer.

Your challenges have inspired our innovations once again...

Introducing the first scalable DSPcentric signal analysis engine.

ABACUS



- **Precise** 120 dB dynamic range consistently and 150 dB in selected conditions. Finally, an analog front end that does justice to a 24 bit ADC.
- **Realtime** measurements on all channels, while recording to disk at full bandwidth. DSPcentric design delivers unprecedented performance.
- **Scalable** from 8 to 1024 channels without loss of performance. A signal processing architecture for all time.
- **Multi-purpose** providing dynamic signal analysis and vibration control on the same hardware. At last, a single platform for all noise and vibration applications.

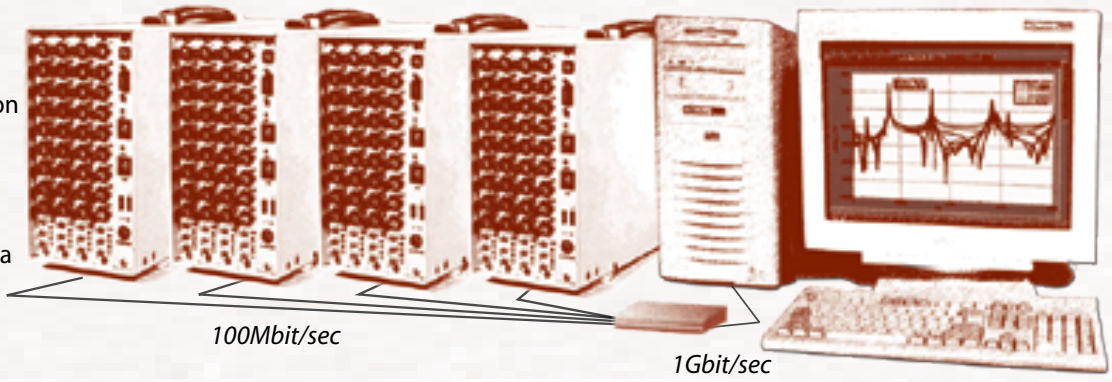
dp DATA PHYSICS CORPORATION SOLUTIONS IN SIGNAL PROCESSING

Power in Numbers A thousand channel system

ABACUS™ means cost-effective scalability.

Use it as a portable 8 channel analyzer for field testing or a 32 channel vibration controller back in your lab.

Network ABACUS chassis to create a thousand channel system.



ABACUS

ABACUS™ means signal processing in realtime - all the time.

Experience the difference of a powerful DSPcentric signal analysis engine. Run all applications needed in a noise and vibration lab. Navigate easily through a common user interface across all applications and hardware configurations. Seamlessly integrate your hardware through a comprehensive resource management tool. At last, a single hardware solution for all your applications.

INPUT
8 to 32 per chassis.
Sample Resolution: 24 bits.
Coupling: AC/DC, Diff. or SE, ICP, TEDS
Anti-alias Filters: 110 dB protection, all ranges.
Dynamic Range: 120 dB to 150 dB.
Input Ranges: 1V Full Scale-10 V FS.
Input Impedance: 1 MΩ to GND, 50 Ω SE shield to GND.
Max Input Voltage: +/-45 V DC peak.
CMRR: 60 dB (typical), f<40 kHz.
Amplitude: +/-0.05 dB.
Cross channel Match:
Amplitude: 0.1 dB, f < 40 kHz.
Phase: (0.05 + 0.0125 f / 1000) degrees.
Crosstalk between Inputs: <-100 dB.
Crosstalk between inputs and source:< -90 dB
Input Noise:
1 V range: 20 nV/√ Hz, 3 µVrms @20 kHz BW.
10 V range:160 nV/√ Hz, 24 µVrms @20 kHz BW.
THD: 100 dB.
Overload Detection: Both pre-filter and post-filter.
Max sample rate: 107.5 kHz (215 kHz optional).
Sample rates: 83 down to 1 Hz.
Frequency Accuracy: +/- 25 ppm.

TACHOMETER INPUT
2 to 8 per chassis.
Pulses Per Revolution (PPR): 0.01 to 4096.
Pulses per minute: 5 - 300000.
Input Range: +/-24 V FS.
Adjustable threshold, hysteresis, holdoff, prescaling.

OUTPUT
2 to 8 per chassis.
Dynamic Range: greater than 120 dB.
Resolution: 24 bit.
Voltage range: 10 V FS.
Output Current: 10 mA Max; continuous short.
THD: -100 dB (typical), -90 dB max, f< 40 kHz.
Reconstruction Filter: 100 dB image rejection.
Output Waveforms: 65536 max blocksize for arbitrary; unlimited for recorded (optional).

NETWORK PERIPHERAL CHASSIS
Disk Capacity: 100 GB.
Disk Rate: 20 MB/s (32+8+8 channels at 47 kHz BW).
Dimensions: 4 x 10 x 18 in^3 without trims.
Weight: 20 pounds.
Operating Temperature: 0 to 55° C.
Power: 130 Watts.

NETWORK TOPOLOGY
100 Mbit Ethernet to chassis, 100/1000 Mbit Ethernet to host.
Sampling: Common clock across chassis for synchronous sampling.

Operating System: Windows NT, 2000 or XP.

All specs hold both within and across chassis. Continued product improvement necessitates that Data Physics reserve the right to modify these specifications without notice.

DATA PHYSICS CORPORATION SOLUTIONS IN SIGNAL PROCESSING

2025 Gateway Pl Ste 260
San Jose, CA 95110
TEL: 408-437-0100
FAX: 408-437-0509

Visit us at www.dataphysics.com to discover more.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP