



**RADAR**

**iZ**  
technology  
izcorp.com

# The Power of Digital

iZ Technology's RADAR<sup>®</sup>V, encapsulating over a decade of professional hard disk recorder development, is simply the ultimate audio recording machine. Built on Adrenaline<sup>®</sup> Plus technology, RADAR<sup>®</sup>V transcends the traditional barriers of performance and sonic quality while maintaining the simplicity and familiarity RADAR<sup>®</sup> users world-wide have come to expect. With four times more speed and power, lower jitter clocks, cleaner power supplies and a whole new suite of workstation compatibility tools, RADAR<sup>®</sup>V delivers on iZ Technology's unrelenting commitment to unparalleled sound, rock solid reliability and invisibility to the creative flow.

## TECHNOLOGY FOR A NEW GENERATION

The Adrenaline<sup>®</sup> Plus DSP core combines the latest high speed DSP technology with iZ's proprietary large scale integrated Trinity<sup>™</sup> chip to record on a single disk at sample rates from 32 to 192 kHz with no track count reduction. All real time digital audio operations are performed by dedicated, hand-optimized high speed logic cells that leave host-based, latency-prone systems gasping for clock cycles. The Trinity<sup>™</sup> chip ensures that every precious byte of your audio data is delivered to the disk with clock-edge accuracy for absolute faithfulness to the original signal.

## THE SECRET OF SONIC SUPERIORITY

While other systems focus on processing to compensate and adjust your tracks, iZ takes a different approach. Our secret formula? Don't touch it! We do what ever it takes to make sure the signal enters and leaves the machine with as few digital fingerprints as possible. Over 10 years of feedback from the industry's most respected professionals tell us that our formula is working.



*I believe the sound and the music on this record will make history. My last record, Eugene Maslov's "The Fuse Is Lit", received many compliments from around the world and RADAR<sup>®</sup> made this possible. Sonically it absolutely kills the competition.*

*Franz Dusch, VRSound Corporation*

## DEDICATED SESSION CONTROLLER

The 48 track Session Controller and Meterbridge present a clear, concise layout with dedicated keys for transport control, track arming, soloing, editing and project management. The Controller's light-weight, all metal case, individually sealed key switches and extremely low design tolerances make it the most robust controller on the market. In addition, simple, dedicated Macro keys let you create and save an almost limitless set of user programmed key sequences to meet your specific operational needs. The Session Controller's familiar tape machine style remote and auto-locator controls minimize the learning curve and allow you to get right to work.



*I had the chance to record 10 live shows in 15 days. I was blown away by how easy it was to use! It was like having a 2-inch tape machine, Pro Tools<sup>®</sup>, and my favorite HDR combined in a rack with a controller.*

*Sam Beard, Rusted Root*

*A simple, flexible, straight-forward user interface, great sonics and bullet proof reliability make RADAR<sup>®</sup> the number one choice for our music scoring and record clientele.*

*Doug Botnick, DMT Rentals, Hollywood*

*Most of the projects I record live end up on Pro Tools<sup>®</sup>. The iZ RADAR<sup>®</sup> lets me record on a stable format and then transfer the information seamlessly. It's a perfect combination for giving my clients a jitter free drive without clocking errors.*

*Malcolm Harper, Reelsound Recording*

# ...The Soul of Tape



*RADAR®24 has been upgraded with many of the new hardware and software features of the RADAR®V such as native Broadcast Wave recording and fast file flattening. The new RADAR®24 boasts a faster motherboard, 5X DVD-RAM combo drive, high speed 73 GB audio drive, 120 GB archive drive and dual analog/digital power supplies.*

## TWO POWER SUPPLIES ARE BETTER THAN ONE

Great sounding audio starts in the most unsuspecting places. Even the slightest whisper of noise on supply rails will find its way into your audio so RADAR®V has two separate dedicated, high quality supplies. The digital supply balances all the digital loads with calculated efficiency while the analog supply ensures that all of the more than 3000 analog components receive the purest power possible. Designed for extremely low noise and incredible regulation, RADAR®V's dedicated, fan-less analog supply delivers full, dual 18 volt rails to all of the analog sections yielding maximum headroom and high bandwidth performance.

## ULTRA LOW JITTER CLOCK AND DIFFERENTIAL CLOCK LINES

A jitter-free word clock ensures audio signals pass through converters without artifacts. Any amount of jitter on the clock will result in signals that were not in your original material, called side bands. Even the most expensive converters can be severely degraded by jitter prone clocks and single-ended unbalanced clock lines. To shield against this, RADAR®V's Adrenaline Plus houses an ultra low jitter digital frequency synthesized phase lock loop followed by impedance matched, balanced differential pair clock lines throughout the system.

## COUPLING CAPACITORS COST CASH

Why do so many systems compromise their front end by using inexpensive capacitors? Answer: Because there are a lot of caps and the cost adds up quickly. iZ Technology's high tech solution? Spend a lot of money on caps and don't look back.

## FAST OP-AMPS OPEN UP THE SOUND

Pre-amplifier stages will make or break any audio system so high performance, differential, high slew rate op amps are the key to great transient response. Sudden changes in the analog signal will not pass through to the converters if the op-amps can't handle the speed. RADAR®V's carefully designed converters use extremely fast balanced op amps that ensure the un-encumbered passage of high bandwidth audio.

## WORKSTATION COMPATIBILITY

A must for today's high tech creative process is the ability to transfer large sound files quickly between systems. The engineers at iZ came up with an innovative way to flatten large RADAR® BWAV files onto a standard MAC or PC readable disk in seconds with a lookup table, thus eliminating the need for time and disk space consuming exports, file consolidations or real time transfers. RADAR®V and RADAR®24 can now record on standard SCSI, IDE or new high performance SATA drives. These drives can be plugged directly into MACs or PCs via SATA, SCSI or Firewire drive bays.



## ACCESSORIES

iZ Technology offers a wide variety of accessories and media to simplify your setup. Analog I/O options include Classic 48 kHz converters, the renowned Nyquist 96 kHz converters and our highest end Super-Nyquist 192 kHz cards. Digital options include 24 channel ADAT, TDIF, AES and MADI(via RME interface) and audio drives range from 73 GB to 250 GB. Also check out our new backup options including the 5X DVD-RAM/CD/DVD-R combo drive, Blue Ray Laser optical drive and the new economical iomega 35 GB REV cartridges. (see RADAR® Features Matrix).

