News Release

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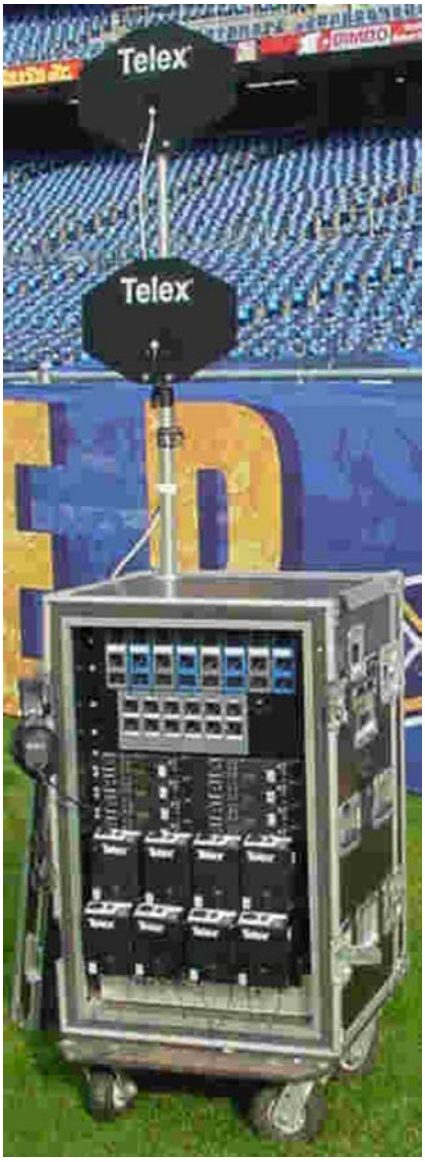
TELEX® RADIOCOM™ SYSTEMS DOMINATE SUPERBOWL XXXVIII



Burnsville, MN (February 27, 2004): Telex RadioCom™ products were an essential element in ensuring Superbowl 38 was a success. RadioCom's Mark Gubser explained: "The coaching staff with both the Patriots and the Panthers used BTR-600/TR-600 UHF Voice Encrypted Intercom systems. These systems feature a patented digital encryption process for secure full duplex communications. The 600 series offers over 65,000 code settings to be utilized by each of the coaching staffs. Obviously, keeping one's play to oneself is a priority! A total of (16) BTR-600 systems are in operation at every NFL game – (8) systems per sideline. The RadioCom™ BTR-600 is connected to the stadium coaching boxes via a Telex AudioCom™ two-wire intercom system. The AudioCom™ provides balanced audio for clear communication. Jamie Schnakenberg is the main contact from Telex to the NFL, and was in charge of coordinating all pre-game and game day events for the group."

Left: The coaches' intercom system, comprised of (8) BTR-600 and (8) TR-600 systems - one system for each sideline (Home and Visitor). Each rack ties in directly to the Telex AudioCom two-wire intercom located in coaches booth, allowing coaches in the booth to talk to coaches on the field.

For 8 years Professional Wireless Systems (professionalwireless.com) RF Engineer James Stoffo has been at the heart of wireless communications at Superbowl events around the US. He described how PWS and RadioCom™ were involved in coordinating wireless for the game-day entertainment:

"BTR-800/TR-800 & TR-825 UHF Frequency Agile Intercom systems were used by the pre-game and half time show production personnel. Audio Tech of L.A. organizes all of the audio for the entertainment at the Superbowl. They sub-contract Professional Wireless Systems to handle all of the RF equipment specification and design. PWS then goes out on site and does a field sweep, months in advance. This preparation is necessary as, for

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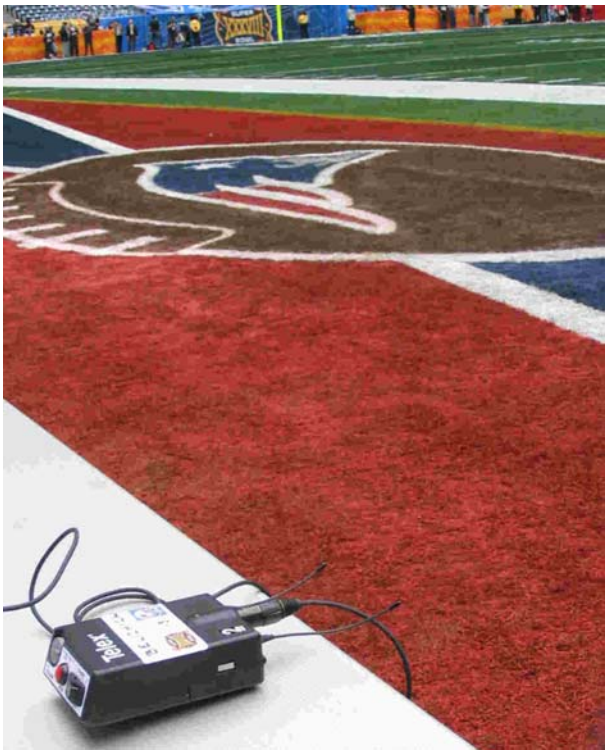
example, there are over 100 frequencies in use during the half time show. About 65 of those are wireless intercom, the rest are wireless in-ears and wireless microphones. We also use Telex for ADA hearing enhancement. We used the new Telex Radiocom™ BTR-800 UHF wireless intercoms this year. We had to use all of the splits available; those 100 frequencies not only need to work with each other, they need to work in a very congested environment with over 1000 other wireless frequencies."

TR-800s awaiting deployment for the pre-game show

Stoffo continued: "I'm on the phone with numerous people about three or four months before the Superbowl actually happens. I speak with the host broadcaster - this year it was CBS - and then with their RF supplier, CP Communications. I speak with the RadioCom™ specialists at Telex, Jamie Schnakenberg and Mark Gubser, to get the coaches' intercom frequencies well in advance and to coordinate the referee's microphones for EV wireless microphones manager Dave Egenberger. We have all of our BTR-800s, wireless microphones, intercoms, in-ears, IFB and ADA equipment coordinated. All in all there's about 1200 wireless microphone and wireless intercom frequencies on the field during that one day. We've tried various intercom systems over the years, and we've settled upon Telex - to the point that next year I'm pushing to have everybody use Telex equipment exclusively. This will work for many reasons: not only do we have to do inter-mod studies to avert distortion problems, but there's also an overall frequency band plan in which I keep all of the base station transmitters below 600MHz and all the base station receivers above 600MHz. This fits well with the way RadioCom™ has their A, B and C splits. Similarly, all the wireless in-ears are kept below 600MHz, all the wireless microphones above 600MHz. We also used our helical (rotating polarity) antennas exclusively to

extend the useful range of the intercom systems, so they work equally well on the base transmitter or on the receiver."

Below: TR-600 – ready for the coaches



In closing, Stoffo commented on the teamwork that is so integral to this level of production: "Telex® RadioCom™ has always played an integral part in the overall band-plan, as have the Electro-Voice® referee mic specialists, in terms of coordinating turning devices on and off to keep things running smoothly. They're real team players behind the scenes - there's an invisible harmony on the field that's just as impressive as the organizational efforts the public can see. This year CBS also used BTR-800/TR-800 & TR-825 UHF Frequency Agile Intercoms exclusively too, from CP Communications. When I found out that Michael Mason of CP - another well-known name in Superbowl intercom - was involved with CBS, my blood pressure went down immediately! He's great to work with, and so are all the Telex guys."

TR-825s awaiting deployment for pre-game show

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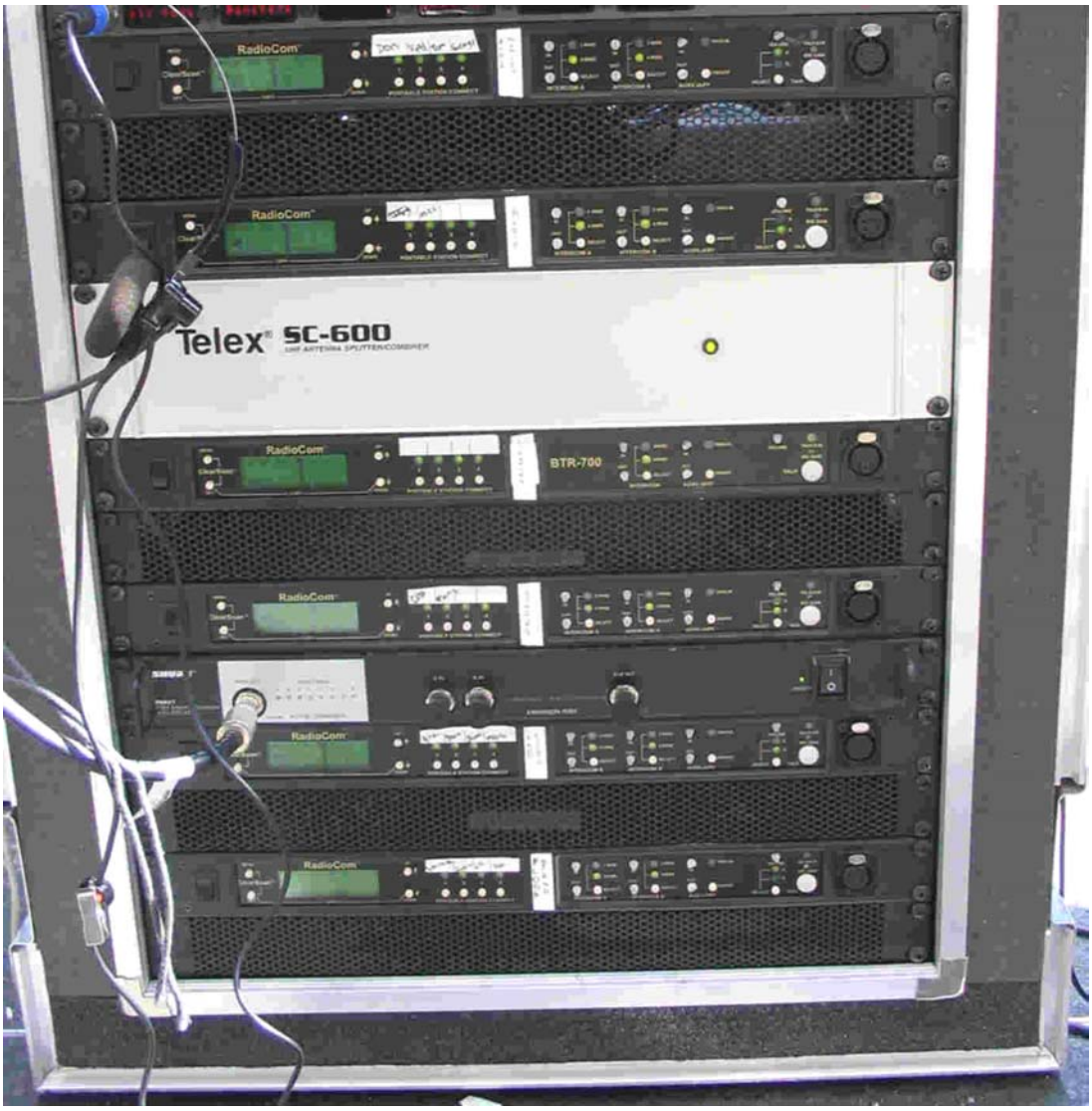

BTR-800 equipment rack for the pre-game and halftime productions: (6) BTR-800s with a mix of (24) TR-800 and TR-825s

The Telex® Radiocom™ BTR-800 UHF wireless intercom is truly different. The 800 offers a list of standard features that is unparalleled in the industry and will change the way wireless intercom is done forever. Features like full UHF operation, two intercom channel access from each beltpack, stage announce output with relay closure, wireless talk around (ISO), Enhanced ClearScan™, talk/listen headset station at the base, and much, much more. Combine all of that with an easy-to-use graphical user interface that lets you get started right out of the box, and you've got the most innovative and versatile wireless intercom ever made. But features aren't the only story. The BTR-800 wireless intercom is a serious performer too. With technology leaps like Intelligent Power Control™, combination tone code/RF noise squelch

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and DSP digital audio processing, this is one wireless intercom that sounds great, even at a great distance! If your application requires the highest performance and utmost reliability, you need the new Telex® Radiocom™ BTR-800 wireless intercom system.

For full details on all Telex® RadioCom™ products,
please visit www.telex.com

Telex® is a professional audio brand of Telex Communications, Inc., a leader in the design, manufacture and marketing of sophisticated audio, wireless, multimedia, aircraft, broadcast and communications equipment for commercial, professional and industrial customers. Telex Communications markets its products in more than 80 countries under the brands EV®, Telex®, RTS™, Dynacord®, Midas®, Klark Teknik®, University® and others.

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