IDB Communications

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Company Profile

Introduction

Satellite Guys and IDB Communications provides a worldwide range of services from a simple earth-station to complete end-to-end video broadcast and transmission services and facilities.

We can also offer uplink/downlink, record, studio facilities, network administration, network and system design, transponder leasing (voice and data) from full-time to part-time services.

Other areas include antenna verification testing, link design and anaylsis, supply of a wide range of services from simple TVRO to broadcast, transmission equipment, compression and data equipment in both new and used condition all the way up to complete satellite earth-station facility.

Mission Statement

Our mission is to provide affordable state-of-the-art telecommunications services in a broad range of solutions, with specific attention to voice and data. Our target customers are all those in need of basic and advanced telecommunications services globally in territories, being land, sea and sky. And provide the communications industry with the timely delivery of dependable flexible systems and services that meet our commitments and fully satisfy our customers' needs in testing, operating and managing their communications systems.

We are also involved in developing a wide range of leading-edge broadcast technologies and applications, including internet protocol TV (IPTV) delivery to wireless fidelity (WiFi) hot spots and remote cable head ends, advanced compression systems for both high-definition television (HDTV) and satellite digital television (SDTV), a unique HDTV evaluation facility, digital signage, electronic cinema, and the next-generation of digital video broadcasting (DVB) broadcast systems.

Our goal is accomplished by using advanced commercial equipment from reliable suppliers, and integrating it into systems tailored to meet specific needs. This approach means less development, resulting in lower risk and cost, and faster delivery. We take end-to-end responsibility for our systems, from design right through installation, operations support, and long-term maintenance. We support our customers from start to finish responding to their needs and helping them achieve success.

Service delivery - our proven ability to use our people, processes and infrastructure to ensure on-time delivery of quality goods and services that fully satisfy our customers.
In-depth RF capability - a detailed understanding of RF characteristics and applications that extends from system and circuit design through assembly, testing, tuning and troubleshooting.
Extensive test engineering know-how - a unique capability to develop and utilize automated test systems that rapidly and dependably verify the performance of communications systems.
Practical systems engineering - our ability to quickly analyse and enhance communication systems to increase functionality, extend applicability, maximize performance and improve manufacturability.

Strong software engineering - a structured process and depth in capable technical staff to build software management systems to administer and supervise communication and test system operations.

Background

Established in 1988, IDB Communications specializes in satellite communications providing design, consultation, supply, commissioning and installations of commercial/professional transmit/receive satellite antenna systems and related broadcast equipment.

Our vast degree of international experience began with the first digital video compression test of Compression Labs Incorporated Spectrum Saver over Intelsat in Los Angeles in 1992. This project also involved design of a prototype GPS embedded satellite receiver for testing and evaluation.

Further experience includes establishing a complete turnkey solution with design, supply,

installation and commissioning an entire PAS-8 uplink platform initially equipped for two transponders for TARBS, Sydney. The design allowed for the additional growth up to a five-transponder platform.

Logistical experience includes testing, disassembly, and transportation of 11.0M Ku transmit from Hillversum Amsterdam to Port Moresby Papua New Guinea, including complete reassembly, testing and commissioning.

Other expertise includes earth station design, antenna theodolite, pattern testing and antenna verification, as well as, installation and complete maintenance for all Fox Sports commercial sites in Sydney.

Objective

Our goal is to provide these services to our customer while maintaining the highest of professional standards, offering value for money, and assuring complete customer satisfaction.

Executives

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Australian References

CUSTOMER	PROJECTS
SBS Television St. Leonards	(12) Satellite antennas from 1.2M to 7.5M C and Ku Band supplied, installed and maintained.
SBS Television St. Leonards	6.5 M C Band fully motorised and step track, supplied, installed and maintained.
SBS Television St. Leonards	6.5 M C Band fully motorised and step track, supplied, installed and maintained. 4.5 M Ku Band, supplied, installed and maintained.
TARBS Australia	7.6M Ku Transmit PAS-8 including: System design and supply of 6 x 2,200W Klystron amplifiers, waveguide switching system, frequency selective diplexers, RSI upconverters, LNR uplink power control system, Radyne DVB 3030 ASI modulators and redundancy systems.
TARBS Australia	(9) Satellite antennas from 1.2M to 5.0 M C and Ku Band supplied, installed and maintained.
Planetel	4.6M Ku Transmit Intelsat 180E
United States Information Service Sydney	6.0 M C Receive AsiaSat 2
United States Information Service Canberra	6.0 M C Receive AsiaSat 2
Fox Sports Australia	Multiple commercial satellite antenna installations and maintenance.
Fox Sports Australia	Exclusive servicing of all Sydney sites (approx 1100).
Fox Sports Australia	RF Distribution and subsystem master control.

Global Vision	Multiple commercial satellite antenna installations, maintenance and consultations.
Galaxy Media	Multiple commercial satellite antennas supplied, installed and maintained, equipment verifications made and tested.
SBS Radio Federation Square Melbourne	6.5 M C Band fully motorised and step track, satellite antenna supplied, installed and maintained, equipment verifications made and tested.
SBS Radio Federation Square Melbourne	4.5 M C and Ku Band satellite antenna supplied, installed and maintained, equipment verifications made and tested.
SBS Radio Federation Square Melbourne	5.0 M C Band satellite antenna supplied, installed and maintained, equipment verifications made and tested.
SBS Television St. Leonards	6.5 M C Band fully motorised and step track, supplied, installed and maintained.
TARBS Australia	4.6 M Ku Band uplink realigned and tested for Intelsat POR 180 East. Supply 1:1 700 W TWTs, upconverters and ASI modulators.
TARBS Australia	4.5 M C Band uplink. Convert feed from Ku to C Band for Thaicom 3. Supply 1:1 700 W TWTs, upconverters and ASI modulators.
UBI Australia	Supply, Installation and maintenance of various antenna's and equipment for broadcast.
UBI Australia	Major revamp of uplink facility moving from PAS 8 to Optus B2.
UBI Australia	Changes to MCR (Master Control Room)

International References

CUSTOMER	PROJECTS
Keystone Communications Los Angeles, CA	First Compression Labs Spectrum Saver Compression tests on Intelsat satellite system; Intelsat 183E, 15.5 M transmit to 3.0 M receive, SCPC 6 MBps.
Pacific Television Center Los Angeles, CA	Multiple commercial satellite antenna installations and maintenance.
Republic Of Nauru	4.5 M C Band Transmit on PAS-2 including system design and supply of 2 x 100W SSPA amplifiers with redundancy switching, RSI upconverter, EF Data Modem.
Republic Of Nauru	6.5 M C Band Receive on PAS-8 including Comstream downconverter and EF Data Modem. KPN Telecom
Hillversum Amsterdam	11.0 M KU Band Transmit / Receive Antenna verification and testing, antenna pattern cuts, disassembly and container packaging for sea freight.
TARBS Europe Lavrion Greece	6.5 M C Band Transmit PAS-10 installation, full motorisation, antenna verification and waveguide.
EMTV Papua New Guinea	11.0 M KU Band Transmit / Receive Antenna, full motorisation, antenna pattern cuts and verification.
Unitel Hellas Lavrion Greece	7.6 M Ku Band Transmit installation, full motorisation, antenna verification and waveguide.

TARBS Europe Lavrion Greece	Installation of third transponder for Thaicom 3 uplink on 7.3 M. Waveguide and commissioning of extra HPA and hybrid.
TARBS Europe Lavrion Greece	7.3 M C Band Transmit Thaicom 3 installation, full motorisation and antenna verification. Supply and installation of 1:1 400W TWTs, upconverters and ASI modulators and waveguide components.
TARBS Europe Lavrion Greece	5.6 M Ku Band Transmit NSS 6 supply, installation and antenna verification. Supply and installation of 3:1 400W TWTs, upconverters and ASI modulators, hybrid and waveguide components.
TARBS Europe Lavrion Greece	5.0 M Simulsat supply and installation, antenna testing and commissioning.
Macedonian Government Skopjia Macedonia	3.7 M C Band transmit supply, installation, antenna testing and commissioning. Supply and installation of 1:1 750W TWTs, upconverters and ASI modulators and waveguide components.
Measat (MSS) Malaysia	Relocate TT&C from Langkawi Malaysia to Cyberjaya Malaysia. Done over (3) phases due to requiring TT&C with spacecraft constantly. Phase 1 – 11 M C Band step track, 8.1 M C Band step track, including waveguide and all equipment. Phase 2 – 11 M C Band monopulse, 8.1 M C Band step track, including waveguide and all equipment. Phase 3 – 7.2M Ku Band step track, including waveguide and all equipment. Perform Intelsat SSOG-210 antenna verification on each antenna.