- television and radio broadcasting
TELEVISION AND RADIO
BROADCASTING

From the generation of radio and digital TV signal to its reception and transmission – Spain has achieved competitive advantages across all parts of this industry.

Specifically, the Spanish equipment, radio and digital TV systems manufacturing industry is leader in the global market.

With its technical competency and experience, Spain offers a variety of products and services, as well as consulting activities to companies and organizations responsible for developing digital television in their countries.

Spain has been the first country to install Digital Terrestrial Television (DTT) equipment and high definition TV in the market with its own technology.

The early decision of Spain to develop DTT has enabled the industry to acquire technology and experience to position itself as world leader in this sector.

In the field of DTT, the Spanish industry builds equipment for any of the existing standards, and its work on the European DVB standard has further contributed to its positioning worldwide.

Through the process of developing of DTT, the Spanish industry has placed itself as a world leader in this activity, exporting more than 50% of its production.

The majority of the 120 countries from Asia, South America and Europe that have adopted the DVB standard utilize Spanish equipment.

In fact, broadcasting equipment for DTT mobile networks in Shanghai was made in Spain. In addition, the decoders used by important TV Channels have also been manufactured in Spain, and Spanish companies have implemented and developed digital TV in the United States, South America, Asia and Europe.

In the digital radio field, the Spanish industry offers a great variety of infrastructure products.

This industry has been setting standards in important events as the Olympic Games, where Spanish Audio Technology was implemented.

REFERENCE LIST OF MAJOR INTERNATIONAL CONTRACTS

— Commentator’s equipment used in various Olympic Games as well as Angolan and Russian national radio facilities
— Providers of analogue and digital broadcasting systems in Colombia, Peru and Uruguay
— Graphic design for the virtualized presidential elections on NBC and BBC, software for virtual stage set product on RTL, Al Jazeera and Fuji TV. Cinema preview technique
— Implementation of TV and FM radio transmission stations for the Africa Cup of Nations
— Audio and video transmission equipment provided for the South Africa World Cup and the 2008 European Football Championship
— Provision, installation and setting up of the Indonesia Public Television (TVRI) network
— Echo cancelling gap fillers for the Azteca Television from Mexico
— Audio and video codification libraries and OEM solutions for APT compression technologies
— Development of a complete centralized signal generating system to serve diverse DTTV production lines for SONY
— Provision of encoders and decoders for CNN and multiplexors for RTVC
— High quality encoders for the Scienzi Naturali di Prato Center
— Decoder for Alcatel-Lucent
— Digital media and low power transmission equipment for NEC
— Mobile HD production units and transmission equipment for the Olympic Games in Beijing
— Signal contribution and distribution systems for Radiotelevisión in Morocco
— Digital television gap fillers for the Singapore television
The Olympic jump to the podium of telecommunications

Since 1979, Aplicaciones Electrónicas Quasar (AEQ) has been a market leader in development, production and commercialization of automation and production equipment and systems for audiovisual media that are innovative, secure and advanced products. Present in five continents, AEQ exports its products and solutions to almost 60 countries from Spain, Portugal, the United States and the United Kingdom.

To demonstrate the power and competitive advantages of AEQ’s in radio-diffusion and telecommunications, one would refer to their highest profile client project, the Olympic Games. AEQ has been a successful provider to the Olympic Games in Seoul in 1988 to those in Beijing in 2008. However it was the Olympic Games in Nagano in 1998 which led to AEQ obtaining the exclusive rights for DCS-10 sportscaster equipment. With these exclusive rights, AEQ established facilities in a number of stadiums and a central control at the International Broadcasting Center (IBC). Further more, AEQ services innumerable sports events such as European championships, World Cups, the NBA and Pan American Games.

AEQ’s technical leadership comes not only from always being in the vanguard through R&D, but also from being able to improve and combine matured technologies with more recent discoveries. With their experience, AEQ has successfully completed the set up of the autonomic Basque radio EITB as well as Angola’s and Russia’s national radios with remote locations, different studios, various audio mixers and central routers.

Beyond AEQ’s continuous technological improvements, they have gained expertise in the unified digital treatment of content, quality maintenance and the combined and decentralized control and configuration. One of its top products, BC-2000 D system, offers a single hardware platform for a large number of devices across various applications. For example, on one platform the product offers a matrix of 1000 audio channels, a multiplexer for E1/T1 lines, an entire digital mixer and an audio concentrator system which enable the simultaneous management of up to 5000 independent channels.

In addition to this, AEQ aims to achieve high cost efficiencies as well as efficiencies in response to high volume requests while maintaining quality and speed. AEQ has been awarded with the AENOR certification due to its quality plan according to ISO-9001, and the UNE-166002 certification for its R&D management system. This Spanish company continues to grow and expand while holding a strong philosophy and culture to be a company creating technologies not for today or tomorrow but for years to come.

"Thanks to AEQ, many sports events such as Olympic Games have been broadcasted successfully"

Innovations:

• The multi-conference system called Systel 6000 is one of the recent products of AEQ. It is best used in situations where immediacy is key.

• ARENA, the digital console for audio mix distributes the audio, enables the connection between emitter studios and a centralized control.

• The routing and communication platform BC-2000 D, together with TITAN, enable the simultaneous management of up to 5000 channels of independents studios.

• One of AEQ’s latest innovations is Phoenix, a family of audio codecs and IP for outdoors and fixed applications.
A pioneer of flat antennas

Antenas Moyano is a young company that began its activities in May 2004, but its personnel is formed by engineers with more than two decades of experience in the antenna and passive transmission devices fields. An example of the company’s maturity is the project it carried out alongside the Universidad Carlos III and the Universidad Politécnica de Madrid on flat satellite antenna for X, Ku and Ka bands. This initiative is a pioneer in its field and uses 100% Spanish technology. Aside from being at the forefront of the scientific-technical field, this project presents cost, size and weight advantages compared to previous models.

Antenas Moyano has its own R&D department with five telecom engineers and cutting-edge design software and measurement systems. This company currently has more than 30 R&D projects on innovation in antennas and passive devices like distributors, filters and multiplexers for digital content.

Based in Madrid, Antenas Moyano develops wireless telecommunication networks used in the different phases of projects, from their design to their implementation, devoting special attention to broadcasting networks — radio, television, DAB and TDT digital audio — and those of multipoint linkages and satellite wireless networks for the land segment. From Antenas Moyano’s comprehensive approach emerges a great variety of products for radiant systems of analog and digital diffusion, filters, multiplexers, connectors and wires for such technologies.

Its clients are important companies such as Abertis Telecom, Egatel, Axión, Mier, Tradia, Seratel, Servitex, SER, CDPE, Onda Cero, RNE, Catalunya Radio, Radio Rioja, Retevisión, CCNP, the Colombian public TV, Intelec Peru, Sodre Uruguay, Canal Nou, Canal Sur and a long list of local radio stations and regional television broadcasters.

With a staff of 15 professionals, Antenas Moyano is a model in its sector, revalidating successful projects and always being one step ahead of the competition. In 2008, it was certified UNE-EN ISO 9001 and became the first Spanish antenna-technology developer company to obtain the UNE 168.002 certification. This was a logical result of its corporate philosophy based on the continual improvement of new products demanded by the market and in response to the fast evolution of radio frequency transmission technologies.

Innovations:
- Antenas Moyano focuses on components for analog and digital HF, DM, FM, VHF, UHF, DVB-T, DVB-H broadcasting radiant systems and space telecommunications.
- This company is a pioneer in the development of flat satellite antenna for X, Ku and Ka bands, a cutting-edge project carried out alongside two prestigious Spanish universities.
- Antenas Moyano currently has over 30 R&D projects on innovation and passive transmission devices.
In the virtual technology revolution

Founded in 1893 from the merger of Montesa 3 (a company from Valencia dedicated to TV graphic design) and Punto y Chroma (a producer from Madrid), Brainstorm Multimedia has become one of the world’s leaders in virtual technology and a pioneer in providing real-time 3D graphic solutions to the broadcasting industry. Its product is mainly aimed at production centers and television broadcasters and consists of creating real-time virtual sceneries. The company designs and produces virtual sceneries for many types of multimedia applications, such as 3D animations, weather forecasts, and real time data displays for polls, election results, sports results, economic reports and movie previews.

The Brainstorm eStudio Version 11 is its emblematic product and is a master tool for real-time 3D graphic multiplatform presentations that allows for modeling objects, texts, film systems, screen systems, offline renders, time lines, etc. This product can work as a stand-alone system or as an integrated platform to develop solutions for 3D graphic presentations, virtual stage sets or previews of on-air visual effects. Brainstorm eStudio V.11 is the graphics engine from which emerges a wide range of applications adapted to the needs of each of the company’s clients: EasySet, virtual scenery accessible to all. It is an impressive catalog of elements to compose all of the necessary components of a television stage set. Easy On Air Graphics, the most intuitive tool for live streaming of graphics based on predefined templates no matter how complex they might be. EasyMaps, a high definition news-map generator based on GoogleEarth, VirtualEarth and Nasa resources. PhotoShop and PowerPoint translator, a program that allows for the development of graphic templates with standard tools. BrainNews, the most complete news system. It is the advanced version of the news graphic system, compatible with the MOS protocol and iNews and can either be integrated with ENPS or used with its own management and graphics control system.

In addition to these products, the recent acquisition of the company Aston – the international labeler – in 2009 expanded the range of options for meeting the needs of the company’s clients around the world.

Brainstorm is committed to developing solutions and expanding its commercialization by following a clear philosophy: to be flexible and transparent with technology, to be compatible with the standard products of the market, and to set standards without imposing brands or models on the clients, which allows the clients to choose the products desired and be able to do maintenance independently.

Brainstorm is currently composed of 30 professionals working at its offices in Madrid and Valencia. Today, the company stands out because of its international commitment thanks to its developments in Europe, America and Asia. Remarkable international business chains as important as BBC, CNBC, MSNBC, RTL and TVE, in addition to institutions like Nasdaq and The Pentagon, have acquired the Brainstorm tools.

The expectation of new televisions that will demand low cost production and high definition production creates a highly optimistic picture for this company positioned at the forefront of technology.
Transmitting the future

The 2002 African Cup, an eagerly awaited event and the Moroccan Government announced that it will enable open TV and radio signals for the entire population. The country was not easily covered as it posed a dispersed population with numerous geographic challenges. This project consisted in designing, engineering and installing 23 TV and FM radio broadcasting stations. A complex project, planned at a very short notice and with an incredibly short deadline: the installations, some of them in the middle of the Sahara desert, were to be completed in six months. It seemed impossible, but BTESA was the only company in the world capable of guaranteeing the execution in such a short period of time.

It was the first fulfilled challenge for an SME based in Madrid that gained its first experiences at the Atlanta Olympic Games and now boasts the most advanced technology in television transmitters. The company was created in 1995 by a group of telecommunication engineers with a solid background and more than 25 years’ experience in the areas of broadcasting and satellite communication and specialization in radio frequency, transmission, program production studios, mobile units and network management systems.

From the start, the founders of Broad Telecom, SA, the company name of which BTESA is a commercial brand, chose two key strategies to grow and develop: internationalization due to local market saturation; and development of their own technology in order to be able to offer a competitive product and to adapt to clients’ needs.

As is often the case with Spanish companies, the first projects abroad were signed in Latin America. As a result of this the BTESA America branch was created in 2001 to service all South American countries. Following its consolidation in Spanish and Portuguese speaking countries, BTESA began to enter in African, Asian and European markets.

Today, 15 years after its creation, the international market represents 60% of BTESA’s total turnover, which surpassed €18.8 million in 2008. BTESA works with some of the most important image and television companies in the world as well as with governments and universities. As an example, 2008 marked the starting date of the contract between BTESA and the Communication Ministry of Indonesia for the implementation, in 35 locations across a country made up of hundreds of islands and in a timeframe of barely 18 months, of a turn-key delivery project which consisted in supplying, transporting, installing, training and maintaining all the required equipment.

The transition from analogue to digital television in Spain has also been an opportunity for this company to develop its own DVB-T technology so it doesn’t depend on external products.

Innovation and investing in R&D are, along with familiarity and flexibility, the keys to BTESA’s success in system engineering. BTESA’s staff, made up of 80 employees, has an impressive record of completed projects and systems; some of these include designing and installing TV and radio studios for many broadcasting companies and events. Mobile units, transmitting stations and TV networks are also part of a brilliant trajectory that has gone from the desert to the oasis of success.

“The success of implementing the project for the African Nations Cup was the first fulfilled challenge for an SME based in Madrid that began gaining experience with their project at the Atlanta Olympic Games. By developing this rapid response for clients BTESA now boasts the most advanced technology in television transmitters.”

- BTESA is one of a handful of companies in the world that produces equipment across the entire spectrum of power, from 1W to 40 kW, including all the bands.
- It is the pioneering company that installed the first DVB-T transmitter in Spain’s public television in 1996.
- It is the first Spanish company to market transmitters with a liquid cooling system.
The digital TV world model

After its foundation in 1992, Egatel has experienced a continuous growth trajectory in the digital television broadcasting industry. Egatel is based out of the Technology Park in Galicia, Spain. Today, it is setting the standards in the professional market of the sector. Its commitment to R&D has resulted in the development of innovative solutions for the Digital Terrestrial Television (DTT) industry and represents the kick-start of Egatel’s expansion into national and international markets. The frequency agile exciters, the echo cancellers demanded by the SFN networks implemented in Spain, and the world’s most compact solutions for digital micro transmitters and micro remitters, are examples of the products that have positioned Egatel at the forefront of the Spanish DTT sector.

The company’s commercial achievements are outstanding. In 2005, Egatel closed an agreement with a leading German OEM to provide digital exciters with echo cancellers. Thanks to that contract, the Spanish company sold thousands of gap fillers around the world. Egatel’s products have been implemented in the Spanish Abertis Telecom TV operator making Egatel the main provider of low and middle power digital transmitters in Spain.

Egatel has been part of the COMSA-EMTE group since 2006 and has commercial headquarters in Spain, Argentina and Finland. Egatel is committed to providing high quality, relevant products. It is also committed to quality control and continuous improvement in its processes. Egatel also customizes products to meet new needs and offers after-sale support. It seeks the optimization of cost and price. The experience of its personnel in manufacturing and design of products, micro-waves and radio frequency systems has allowed Egatel to meet the strictest international regulations while designing new, intuitive solutions for easy maintenance.

Egatel is consistently seeking technological excellence. While aiming at its own improvement, it has renewed and enlarged the range of low and middle power digital transmitters, generating more compact and low-energy consuming products. Egatel’s international reach is truly competitive with other world leaders in this sector.

“Egatel is a model in the world of digital television broadcasting using radio frequency systems”

- Egatel has left a mark on the Turkish TV, TRT, the Colombian Consortium, CCNP, and the Moroccan TV, SNRT, among many others.
- It has worked on the digitalization of the Argentinian cable operator networks Canal del Viento, the Finnish radio diffusion network VLT and the public operator of Taiwan PTS.
- The company’s project on gap fillers for the Mexican Televisión Azteca is a world landmark of the implementation of echo cancellers in iso-frequency ATSC operations.
“The road to Santiago” technology

From Santiago de Compostela to the world using technology. This is the journey of Sistemas Audiovisuales Itelsis, S.L., a company dedicated to designing, manufacturing and installing transmission and receiving equipment for digital and analog television. In addition, it manufactures and installs DTT headends, contribution and access links (SDH, PDH, IP) and mobile units (DSNG), among other facets. Its particular Camino de Santiago has carried it to various locations in Europe, Australia, Southeast Asia and North Africa. In Morocco, Itelsis was in charge of installing the systems for the distribution of signals between various principle centers of production and broadcasting for radio and television. Itelsis was also responsible for the launch of mobile HD production and diffusion equipment for Jiangxi Broadcasting and TV Bureau, a 5 million dollar project for the Beijing Olympic Games, which added to the supply of broadcasting equipment for television signals in the Jiangxi region.

Itelsis is dedicated to transmission and rebroadcasting equipment for low, medium and high power analogue television with interfaces that allow for remote management and remote monitoring. Within the field of digital television, it provides DVB-T and DVB-H solutions consisting of gap fillers and transmitters with agile exciters, COFDM modulators and digital pre-correction, as well as hot plug amplifiers and SNMP management. Itelsis’ performance is demonstrated by their provision of digital television gap fillers in Singapore for receiving signals in the urban bus service as a source of entertainment for travelers. Itelsis also provided DVB-S monitoring receivers for IPTV network headends in Malaysia. The success of these projects is due to Itelsis’ dedication to technological innovation. This corporate philosophy is evident in the dedication of a third of its workforce, mostly telecommunications engineers, to R&D efforts, as much in the areas of hardware and software as in design. One innovative activity of Itelsis has resulted in contributions such as the suppression of non-coherent interference using fractional filtration, which allows teams to cancel signals from different transmitters while suppressing the coupling of the rebroadcasters. Itelsis’ activities have also led to results in the pre-correction segment based in high frequency amplification models, a method that reduces the output intermodulation of the power amplifiers with a notable decrease in the complexity of digital processing.

In short, Itelsis, based in the Industrial Park of Tambre (Santiago de Compostela), has advanced its goal of providing its clients with optimal service, together with industry leading products. Galician fashion dresses the world with cutting edge Spanish technology.

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Itelsis offers the most cutting edge technology of its sector in various areas of Europe, Australia, Southeast Asia and North Africa.

It launched mobile unit HD production and broadcasting equipment for Jiangxi Broadcasting and TV Bureau, a project at the Beijing Olympic Games.

Among its exploits is the provision of digital television gap fillers in Singapore for signal reception in the urban bus service.

Itelsis dresses the world with cutting-edge made in Galicia technology through the design, manufacturing and installation of transmission and reception equipment for digital and analogue television.”
The company that took television to the Internet

Few companies make it to the audiovisual hall of fame, and Prodys is one of them. Its success is due to a revolutionary product for television news programs. This product, called Ikusnet, utilizes the Internet as a means to transmit high quality video signal instead of using satellites. Ikusnet was presented at the IBC in Amsterdam in September 2009, and it caught the attention of TV executives and other producers from Europe. It will soon be attracting producers from the United States when the first units are displayed at the NAB (National Association of Broadcasters) Show in Las Vegas in April 2010.

Ikusnet is the result of 15 years of dedication and hard work by a group of professionals with renowned careers in the television broadcasting industry. Since 2002, the company has specialized in high-precision audio compression products and online live streaming platforms like ProntoNet and Nómada IP, which have become industry standards due to their great performance and reliability.

This completely Spanish-run company supplies audiovisual codification libraries and OEM compression solutions to important manufacturers such as IPV, Tandberg, APT, Bosch, Lawo and Haivision.

Prodys operates from a local office in the United States since 2003, which came as a result of the acquisition of the company Musicam-CCS, a pioneer in the development of audiovisual applications and audio treatment products. Its products are specially adapted to the US market, which is the largest market for the professional audiovisual industry.

Nevertheless, all the products are conceived, developed and manufactured in Leganés (Madrid) and are the result of the company’s substantial investment in R&D. In addition to its staff of 20 development engineers, Prodys has collaboration agreements with R&D groups from Spanish universities, especially with the Universidad Carlos III of Madrid.

Prodys’ products have an excellent reputation in the international broadcast market and are commercialized worldwide through a network of over 50 official distributors with a strong presence in the professional audiovisual market.

Innovation and distribution, combined with a specialized marketing strategy focusing on attending the most important international fairs (NAB Show in Las Vegas, IBC in Amsterdam, Broadcast Asia in Singapore, CABSAT in Dubai), allows Prodys to achieve its goal: to continue innovating and improving the speed on the net.
Technology at its purest

When José Clotet founded Promax in Barcelona in 1963, he did not expect that the small technology company, made up of three newly licensed engineers, would expand to five continents in just a few years. With virtually no financial resources, Promax began work at the same time that television was introduced in Spain. One of the first systems it developed was the field meter SF-571. This measurement instrument was launched in 1964 for the installation of receivers as well as the Spanish public television network.

Today, Promax helps with the implementation of television networks in more than 100 countries. Its secret is none other than knowing how to adapt to changing market circumstances. A good example of this is the advent of television generators, which came into use in the early 60s. The few hours of broadcast emissions and the unreliability of TV sets made necessary equipment that would allow technicians to adjust the receivers. This line of products continued to adapt to the needs of its users and today, Promax provides the tools for manufacturing new lines of TV sets used by clients with European plants, such as Sony and Sharp, and increasingly, for manufacturers based in China.

Today, the company has four product lines: measurement instruments, transmission equipment, educational products, and television signal distribution systems. In this last field, all the operators have made an effort to present their content in digital format to the user. However, content is still being transferred in analog mode between the operator and the viewer. Promax has designed and proposed the Digital To TV, a multipurpose switchboard control unit that can adapt satellite signals, terrestrial or IP, to DVB-T format, which can be understood by all TV sets without the need for additional receivers.

This diversification has been made possible by a strategy based on investment in research and development. As a general rule, the company invests 15% of its turnover in R&D. In fact, 30% of Promax’s staff of engineers and PhDs is dedicated to R&D.

Promax relies on a team of 120 people in Germany, the United Kingdom, France, and Eastern Europe, but it does not forget its origins, with a capital structure still 100% Spanish.

Germany has always been the main destination of exports from this company. Since the 80s, Promax derives 2/3 of its sales from exportation. Of these sales, half are made in the European Union.

Innovations:

- **Digital To TV (DTT)**, a switchboard for TV distribution in DVB-T that converts any video source, analog or digital, to Digital Terrestrial Television (DTT or DTT) format, ideal for use as a headend in large stores, hotels, convention centers, hospitals, and other facilities.
- **TV Explorer HD**: The first meter for HDTV in its class which complies with requirements for being considered as true equipment for HDTV measurement.
Designing the television of the future

Sapec is a Spanish capital society with advanced technology in product and service design for the transportation and compression of video and audio signal; from their generation in studios or streets to their arrival at the user’s receptor via satellite, Internet, cable or cell phones.

Apart from a high demand in the United States, Canada, UK, France, Italy and South America where renown and prestigious companies sell this Spanish brand, some of Sapec’s most prestigious Spanish clients are Telefónica, Radio Televisión Española (RTVE), Antena 3, Sogecable, Telecinco and the majority of regional television networks.

The market in which it operates has big expectations of growth because the trends are not only to digitalize all the audiovisual signals to be transmitted – compressed or not – through dedicated lines or Internet, but also there are totally new markets like high definition TV, 3D and TV on mobile telephones. These are markets where Sapec is already positioned and to which it has a wide range of corporate solutions to offer.

In addition to being professional, Sapec’s directors are company shareholders, and, because of this, they are committed to the best alternative: to design products using the company’s technology. Such strategy has allowed them to position themselves as the world’s top company to do video signal compression through MPEG (Moving Pictures Experts Group), which is used to digitalize video and audio for transmission signals including satellite, cable and Digital Terrestrial TV.

Half of its staff works on the development of new products and solutions, and their work is strongly supported by a significant annual investment in R&D. In 2004, this company started to consolidate a new strategy consisting in using its own technology for the development of products and to focus on the transportation of audiovisual signals. Ever since that year, Sapec has had an important growth tripling its EBITDA (Earnings Before Interest, Taxes, Depreciation, and Amortization) in less than five years and expanding the range of products and markets.

Sapec’s equipment has been used to broadcast world events like the Olympic Games in Beijing in high definition (HD) and the Expo Zaragoza 2008 where Sapec’s technology was implemented to work on WiMax (Worldwide Interoperability for Microwave Access), a regulation that allows for the reception of microwave data and its retransmission through radio waves.

Currently, this Spanish company is actively working on the Proyecto Vision, a project on 3D next generation video codification framed in the CENIT (National Strategic Consortiums in Technical Investigation) program that is sponsored by the Spanish Ministry of Industry. This represents a new challenge that keeps Sapec at the forefront of technology and enables it to design the television of the future.
A passion for manufacturing

Televés is at the forefront of a group of technological companies with a presence in over 80 countries and is a world leader in the design, development and manufacturing of systems and products related to in-home telecommunication services. It is also specialized in receiving and distributing TV and radio signals.

Televés was created in 1958 in Santiago de Compostela (Galicia) and its 50 years of history have been devoted to analogue and digital terrestrial television, satellite and cable television, mobile and high definition television, test measuring equipment, and telecommunication and audiovisual home services.

It has 20 industrial and service branches, over 800 employees, more than 4,000 customers and 53 international patents. The group’s revenue was €188 million in 2008 with a cash flow of €24.5 million and has manufacturing plants in Spain and Portugal as well as branches in France, Germany, the United Kingdom, Italy, United States, China and United Arab Emirates.

Throughout its long history, Televés has built a solid business reputation based on the values that define the company’s identity: innovation, quality, commitment to clients, international vocation, leadership, excellence in human resources, sustainable development support and commitment to the environment.

As a pioneering company in the production of radio and television receivers, Televés developed and manufactured the majority of its components. This need for self-sufficiency bore one of its most important virtues: a passion for manufacturing. This business philosophy makes Televés the only company to conduct R&D and to manufacture the whole range of products for managing television signals, from antennas to receivers. It is also the only European company that manufactures decoders for Digital Terrestrial Television (DTT).

Its experience and its cutting-edge technology have given Televés a key role in the ongoing process of dissipating analogue TV signals and their substitution with digital terrestrial television in Europe. It is also a leading company in the design and manufacture of antennas for distribution and measuring equipment specifically made for this new television model.

The future challenge for Televés is to continue to have a leading role in the era of High-Definition Digital TV (HDTV) and to reach that goal, it has participated in all the relevant projects tied to this technology such as ADL, Furia and Palco HD. Televés also has its own equipment to distribute the services of high definition satellite TV and is ready to seize the opportunities posed by the so-called Digital Dividend, the part of the spectrum freed by the analogue blackout, as well as the development of mobile television services.

In the era of globalization, when most of the companies in the sector decide to outsource manufacturing processes in order to reduce costs, Televés stays faithful to its industrial tradition: controlling the whole process at home, from design to manufacturing. This is a strong held belief of the company: A successful belief that can be summed in the motto “European technology made in Europe,” the motto world markets associate with Televés.

“Televés is the only company to conduct R&D and to manufacture the whole range of products for managing television signals, from antennas to receivers. It is also the only European company that manufactures decoders for Digital Terrestrial Television (DTT)”

Recent Technological Innovations:

- First communication platform for all types of buildings (COAXCOM).
- Revolutionary H45 portable field meter including digital processing, a world’s first in equipment of this kind.
- The new DAT HD BOSS: the antenna designed for DTT and the future high definition TV (HDTV). Its most novel feature is the Boss-Tech system, which enables it to automatically adjust the outbound signal level, making it a true intelligent antenna.