



Newtec first company to successfully demonstrate commercial DVB-S2 ACM and 32APSK equipment during laboratory test campaign at the RAI Research Center

Sint-Niklaas, Belgium, August 2006 – Newtec today announces that it successfully demonstrated its latest-generation DVB-S2 product during a lab test campaign organised at the RAI Research Center in Turin during the second half of June 2006. Newtec DVB-S2 product series, including professional DVB-S2 modulators, demodulators and modems, are the first and (as of this date) the only commercially-available equipment that implements the Adaptive Coding and Modulation (ACM) and the 32 APSK options of the DVB-S2 standard.

The purpose of this test campaign, organised by the DVB-S2 ad-hoc group, was to verify the compliancy of available equipment with the DVB-S2 standard and compare the effective performance of this equipment with the simulations results and the performance of first generation DVB-S systems.

The results of these tests have been published in a paper recently released for a meeting of ITU-R study group in Seoul, Korea. It shows that the equipment presented by the 7 participating companies comply with the standard with an implementation margin ranging from 0.2dB (QSPK) to 1.2 dB (32 APSK). The tests also confirmed that when operating in Single Carrier or Multiple Carrier configurations, DVB-S2 offers a gain of about 30% in bandwidth efficiency compared to similar transmissions in DVB-S.

Next to the QPSK, 8PSK and 16APSK modulation schemes, 32 APSK is the highest constellation supported by the DVB-S2 standard, offering a capacity of 5 bits per symbol.

ACM is a mode of operation that allows the modulation and Forward Error Correction (FEC) parameters to be changed dynamically for each data frame. When combined with a system that reports the instantaneous receive conditions at the remote side back to the uplink, ACM allows to operate satellite links with a reduced rain margin, providing average capacity gains of up to 130%..

Newtec's DVB-S2 equipment is part of the modular Azimuth family and supports all the modulation parameters specified by the standard. This equipment can be operated in Constant Coding and Modulation (CCM), Variable Coding and Modulation (VCM) and Adaptive Coding and Modulation (ACM) modes, for broadcast, DSNG, contribution, primary distribution, trunking, IP-TELCO backbones and broadband interactive applications. The first Azimuth DVB-S2 modulator was introduced on the market in the second quarter of 2005. More than 1,000 units have already been shipped and it is considered by many as a reference in the industry.

About RAI Research Centre:

The RAI Research Centre is a complex of Laboratories divided in specialised areas which enable coverage of nearly the whole gamut of technical issues relevant to the different sectors of the radio-television system (production, transmission, broadcasting, receiver end). Its main objective is the survey of the technological innovation aimed at the creation of new services and the design of innovative technical models for the optimisation of the productive resources. It actively contributes to the work of international bodies where the issues relevant to technical innovation are dealt with, industrial policy strategies are debated and the standards are generated.

About Newtec

Since its establishment in 1985 in Belgium, Newtec has been among the market leaders of Satellite Communication, offering highly reliable products and solutions as DVB modulators, Digital TV & Radio Distribution networks, interactive TV networks and IP Broadband Access Networks to customers throughout the entire world.

With its ambitious policy of re-investment in R&D, Newtec is being recognized as the forerunner in several innovative satellite communication technologies, which eventually were published as industry standards (DVB, DVB-S2, DVB RCS and iSatTV Cenelec pr EN50478).

Newtec has regional offices located in Stamford (US), Singapore (Singapore), Beijing (China), Dubai (UAE), São Paulo (Brazil) and Johannesburg (South Africa).

Newtec is part of a group of companies that also includes Teamtec (manufacturing) in Belgium and Tellitec (IP software solutions) in Germany.

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