


A close-up, horizontal view of a row of books on a shelf. The books are mostly dark, with some showing signs of wear and age. The central book has a bright red spine with white text. The text on the spine is in Cyrillic, reading 'Образование с детьми' (Education with children). The books are arranged in a slightly overlapping manner, with the red spine book being the most prominent.

Образование с детьми

INTRODUCTION

EDUCATE WITH ECLER



Audio intelligibility is a key factor in the learning process. A professional audio system should fill a classroom with clear and even sound so every single student understands every word of a speech. For this reason sound quality should be a priority in a classroom installation.

Moreover a good quality and well-designed sound system brings benefits not only to students but also to teachers. A well designed and balanced system reduces vocal strain and fatigue, overcomes background noise easily and improves classroom management by increasing efficiency. This reduces the need for repetition, reduces the likelihood of confusion and holds the listeners attention more effectively. There is a strong link between clear, well understood instructions and a students ability to process, apply and retain them. Removing the barriers to effective learning should begin with the senses and our hearing plays a significant part in this.

If we jump from speech intelligibility to music as a way to increase skills we should remember the words of the Greek philosopher Plato: "Music gives a soul to the universe, wings to the mind, and life to everything."

The art of listening is key to receiving information, advice and instruction and the use of music to enhance other forms of communication is effective and well established in education.

Despite this for many years Education has struggled with poor quality sound production linked to crackling radio broadcasts, cheaply made video programmes and computer/ whiteboard speakers. The direct benefits of music in the classroom can be so easily eroded by reproducing sound badly, Poor quality music

serves only to distract and detracts from learning.

Schools and classrooms are all about learning. They are about discovering information, acquiring skills and asking questions and in order to achieve this purpose schools are constantly striving to improve the learning experiences of their pupils. Research indicates that music integrated into classroom routines and practice can enhance learning by heightening thinking, processing and memory skills.

Music is an enriching and valuable academic subject. A quality music education can improve self-confidence, behaviour and social skills, as well as improve academic attainment in areas such as numeracy, literacy and language.

We know that music can stimulate anticipation, build atmosphere and so establish a positive learning state. The rhythmic elements of music can facilitate and promote effective memorisation, and the multisensory dimension of using music to layer other sensory triggers for learning helps energise the learning process. Many schools use music to prepare children for a focused activity and to sustain and focus concentration for extended periods of time.

Music allows pupils to release tension and provides a universal means of communication for emotions and expression of self. In the classroom carefully chosen background music can effectively enhance imagination and provide a vehicle for release of tension and feelings. In association with dance and drama, music compels movement in people and builds expressive skills and control and awareness of emotional states that will impact throughout their lives.

Finally another beneficial area of music for children is music therapy. For many children with Special Needs this essential therapy is a means of acquiring basic skills in other areas.

BENEFITS OF USING ECLER AUDIO SOLUTION

RELIABILITY

Only 0,7% return on warranty. One of the lowest of the industry. Forty five years of know-how in professional audio solutions

SOUND QUALITY

Using SPM Technology (Switching Power MOSFET) in audio amplification improves the sound experience. This patented technology has been chosen the best sound quality in the industry by the prestigious German magazine Production Partner

GIUGIARO DESIGN

AUDEO speaker cabinets have been designed by the famous Italian industrial designer Giugiaro (www.italdesign.it). Giugiaro has designed more than 200 cars in 40 years (Volkswagen, Fiat, Ferrari, ...) as well as some other products for brands like Nikon, Motorola,...



REMOTE CONTROL

Would you like to control all your audio systems (classrooms, lecture theaters, sports hall, different buildings...) from a single screen? ECLER digital matrix MIMO 88 and NZA zone amplifiers can be controlled via Ethernet with EclerNet Manager software

GREEN

We save energy thanks to higher efficiency of SPM patented technology (74% efficiency against 50% efficiency of traditional bipolar transistor technology used by most of audio amplifier manufacturers).
We use non contaminant components. All of them lead free
We recycle materials. 70% of our packaging is recycled
If NZA amplifiers are used we can save up to 61% energy in comparison with an standard amplifier

THE GREEN FACTS

ENERGY CONSERVATION
Ecler's SPM Technology (patented by ECLER) in our amplifiers, Switching Power MOSFET, allows a more efficient 74% than bipolar transistors and conventional modules. The benefit of this technology is more efficient power consumption and less heat production.

HIGHER EFFICIENCY
Ecler's SPM Technology (patented by ECLER) in our amplifiers, Switching Power MOSFET, allows a more efficient 74% than bipolar transistors and conventional modules. The benefit of this technology is more efficient power consumption and less heat production.

ENERGY SAVING
Energy saving during the transmission thanks to the ultra-light weight and compact size of the latest generations of amplifiers, like NZA, MIMO and MIMO.

NO CONTAMINANT COMPONENTS
Ecler's products are lead free and RoHS compliant. Ecler's products include the Safe Standby function, which again drastically reduces the power consumption. Usually below 5 Watts, in this case during the periods the device is not utilizing full functionality.

RECYCLED MATERIAL
70% of recycled material in packaging is 100%. This 100% recycled carton with ensures that the final result is fully recyclable and eco-friendly. Through our carbon footprint we ensure that the final result is fully recyclable and eco-friendly. Through our carbon footprint we ensure that the final result is fully recyclable and eco-friendly.

Environmentally Sustainable AV **ecler**

CONFIGURATION EXAMPLES

Few examples of surfaces and combinations (70/100V line, low impedance and networkable).

SMALL CLASSROOM (20 seats)	Low Z
IC	4 IC6 (40 W) 1 CA120
ICCLASSTR	2 IC6CLASSTR (75 W) 1 CA200Z
AUDEO	2 AUDEO106 (50 W) 1 CA200Z

MID SIZE CLASSROOM (80 seats)	Low Z	Low Z - Networkable
ICCLASSTR	4 IC6CLASSTR (75 W) 1 MPA4-150R 1 SAM512T 1 AUDEOSB110P (Optional)	4 IC6CLASSTR (75 W) 1 NXA4200 1 SAM412T (Optional) 1 AUDEOSB110P (Optional)
AUDEO	4 AUDEO106 (50 W) 1 MPA4-80R 1 SAM512T 1 AUDEOSB110P (Optional)	4 AUDEO106 (50 W) 1 NXA480 1 SAM412T (Optional) 1 AUDEOSB110P (Optional)
DACORDi	2 DACOH206i (220 W) 1 MPA4-150R 1 SAM512T 1 AUDEOSB110P (Optional)	2 DACOH206i (220 W) 1 NXA4200 (bridged) 1 SAM412T (Optional) 1 AUDEOSB110P (Optional)

CONFIGURATION EXAMPLES

LECTURE THEATRE (250 seats)	Low Z	Low Z - Networkable
	1 MIM088 2 UMA112i (350 W) 2 DACORDH206i (220 W) 1 MPA4-400R 2 UMASB118i (500 W) 1 MPA4-400R 6 DACORDT208i (300 W) 1 MPA6-150R	1 MIM088 (Conference) 2 UMA112i (350 W) 2 DACORDH206i (220 W) 1 NXA4400 2 UMASB118i (500 W) 1 NXA4400 6 DACORDT208i (300 W) 1 NXA6200

SPORTS HALL AND GENERAL AREAS	70/100V line + Low Z	70/100V line + Low Z - Networkable
	1 MIM088 60 IC6 (15 W) 20 AUDE0106 (30 W) 2 HSA2400 6 CKL110T (350 W) 2 CKLSM115T (600 W) 2 DPA4000T	1 MIM088 60 IC6 (15 W) 20 AUDE0106 (30 W) 1 NXA4700 (bridged) 6 CKL110T (350 W) 2 CKLSM115T (600 W) 2 NXA4700

REFERENCES

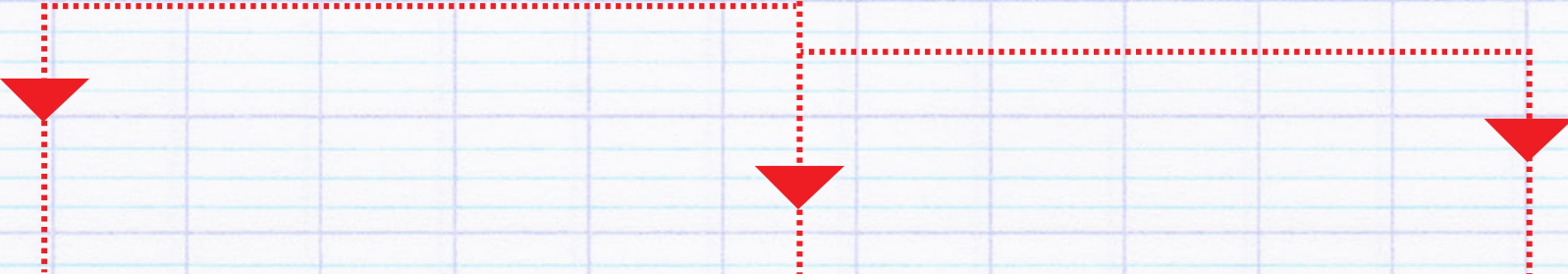
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- Universitat Autònoma de Barcelona – Spain** (www.uab.es)
- Universidad Politécnica de Madrid – Spain** (www.euiti.upm.es)
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- Huaqiao University – China** (www.hqu.edu.cn/)
- Qinghai Institute of Salt Lakes – China** (www.isl.cas.cn)
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REFERENCES



EDUCATE WITH ECLER

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ENGLISH



All product characteristics are subject to variation due to production tolerances. NEEC AUDIO BARCELONA S.L. reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.