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sensational. The receiver was used two large (but Italian: lish) speakers in the system Dome, 2 tweeters and one central speaker . Maybe the physical is 2 x 40 W +10 W. Also used : Power Bass system, which

- when used appropriately _ amplifier in the receiver - highlights low tones. The audio signal is also fed to the stereo headphones . The sound path is adapted to receive the stereo signals emitted in the analog signal siser A2

and in the NICAM digital tanker .

The AV-32 W receiver is equipped with two RF tuners , which allow: to perform the functions: picture in picture (PIP), two pictures side by side (PAP) and simultaneous presentation of 12 or 5 pictures, picture plus teletext, still picture (pl us stop the cage).

A Megatext de - encoder with memory CII: I was used to receive teletext 512 pages. The decoder corresponds to the so-called at the level of 2.5, which provides better: I the legibility of subtitles and graphics . May be downloaded from the network by the receiver is 218 W. Considerably reduced can download: I in standby ; it is less than: 1 W.

The operation of the receiver, with a large number of functions and a great variety of accessories , is simple. All functions are directly accessible without the need for , w dr6wek "through the next submenu. The menu is colored and the cursor is operated on the remote control is easy and convenient . The remote control is adapted to work with a VCR.

The menu appears sit ;! on the screen in one of 10 languages.

Programming of the receiver takes place automatically. The tuner uses synthesizer! czl,! stotliwosci z p tll: I PLL. Wait a minute , you can save 100 programs.

The receiver equips: it with numerous ports . 3 eurozlls were used: connectors , S-VHS and audio-video sockets, as well as 5 audio output sockets with adjustable voltage level .

To sum up : I think it should be stated that : that the disconnection of the receiver corresponds to the highest: world class and fully deserves _ _ _ highest rating, awarded by EISA.

Jerzy Chabrowski



Mixer

Video Tech Designs

VMX410

The English company Video Tech Designs offers two mixers on the Polish market. The VMX400 model, described a month ago, and the VMX410 model, submitted to the Editorial Office for comprehensive tests.

First impressions

C I have already seen a similar person . Like a luxurious briefcase with a handle. inside : test reprint rniksera from an English -language magazine, Polish and English manual , rigid , handy scil : manual -instruction manual , 2-year warranty, rich set of high- quality audio and video cables, cinch -euro connector, traditional power supply (9 V DC) and the mixer itself (dimensions in mm width x depth x height:

415 x 270 x 75). The manual is clear with many very useful comments, also of a general nature. The housing has a solid and aesthetic finish (here there are various cheap plastic), ergonomically spaced and reliable buttons and 2 sliders resembling knobs.

The deer device holds the bed well to the bottom of the bed , which is ensured on one side by the ear of the bed 3.7 kg, gummed n6i: ki and none the need to apply great force during the operation of the microcontroller will be.

Words of explanation

The VMX400 rnikser described before IDJeStqc is a device: a landing device similar to the currently tested device. Therefore , in this test, they only signal the common functions, thus referring to the previous LV number, where the Reader will find a more complete description of them . I will describe in detail those features of the VMX4LO mixer that are not present :

the simpler VMX400. The @ sign signals the common functions of both servers. At the same time, I recommend that you familiarize yourself with the detailed description of the functions in the previous LV issue, in the VMX400 mikser test .

Device functions

Contrary to all predictors available on the Polish market , only Video Tech Designs products (including the tested VMX410 and the one described before the developer VMX400) offer an unusual amount ! used beyond the compulsory mixing of video signals .

So let's recall: 30 basic patterns of transitions between channels @ (from stanning), fading @ and cil ,! Cie @.

Taking into account the degrees of blurring of the edges at the junction of the mixed images and from the wrapped curtain, we will get the above 240 original video - channel transitions .

Effects: colored background @ (choice of 100 preset pure and pastel colors, both high and low brightness) . The lack of a separate potentiometer for the fader @ function causes

that the colored Ua in conjunction with the mix function enable an equivalent effect . Freezing the image @: we can choose to freeze: p6t image or full image (high resolution). Due to the steepness (8 Mbit) , apart from the resolution (720 x 625 dots) , we obtain an excellent , 16-bit resolution for the color.

Picture in Picture @. We have a choice 5 window sizes (3/4, 2/3, 1/2 , 1/3, 1/4 of the screen) freely displaceable on the screen.

Keying @ - until recently _ an effect reserved for a professional studio, today it has become a standard in amateur equipment . The mixer provides 4 variants of keying by reference:

- to the components of luminance (Y) and chrominance (C);
- only to component Y (C information is ignored);

- only to the C component (ignored Y information);
- to store Y and C in the color scheme blue.

The selection of the keyed part of the image is made with the cursor. Moreover, we programmatically define the accuracy threshold separately for the Y component and the C component - af 1 6 degrees for each of the nothing. Feedback (!). This effect is not achievable with the MX400 version . The assumption of the effect is to re- feed the input frame from the output. Depending on the other enabled functions (e.g. picture -in -picture, keying, negative, plaster curtain, or blending) it gets a sit ;! several unique effects. For example , combining the picture-in -picture function with a rotating link results in the overlapping of several video images .

content, but of varying size.

The number of images can be modified to. Also the position of the starting point of the axis along which the given S < subsequent window sizes. The end point of the axis is always the center of the screen.

In the further part of the description of the mixer functions, only the remaining possibilities of the VMX410 mixer, together with the VMX400, were signaled by the remaining possibilities of the competition:

TBC function

Time base corrector @. It works when the video signal is sent only to channel! A.

Additional Lockout Modes:

[a] Sync Lock Mode @. They enable (! Recovery of image stability and legibility in many cases of tape damage, bad

operation of mechanisms
mu recording or
playback (!), or the low
quality of the recording.

[b] Color Lock Mode @. function, intended to the visible flickering or temporary fading of the color, thus improving the color stability.

[c] Black and white mode display play Mode) @ (This applies to the black - and - white signal.

in sync imbalance, [3] all previously mentioned correction functions from bear (! siC (only to digital channel A. The mixer accepts the iS -Video composite input. Any two signals can be mixed up (!).

- The Mixer is not operated by the connection menu (! Combined with the on -screen display. The on-screen menu is

Practical with alphanumeric displays, placed directly on the console. Buttons located (directly below a particular display) allow (! Easy selection of a parameter for the function: curtain type, one hundred hundred edge blur ((today, the time of automatic drawing and background color. The values of the above - mentioned functions are displayed on The other two two-position S < multi - functional displays. First, select the function ((e.g. dE - i.e. the demonstration program

makes it possible to amplify each audio signal over ((cuts by 14 dB. Sound level ((- can also be observed on the display (14 LEDs).

Picture quality, effects and sound

Of all the tested and known servers for the amateur market, the VMX410 (similar to the VMX400 described a month ago) is characterized by a very high image quality.

If not the highest, then at least the r6w are also the Panasonic and Vivanco mixers described in LV. The VMX410 clearly outperforms Videonics' image quality.

Any mixes and effects performed S < smoothly and flawlessly. You could say - exemplary. Image correction options, effective and not found in competitors, increase the value of the VMX410.

The bandwidth for each video channel is different. It does not, however, cause any limitations in work. Both kana! digital (band

> 5.5 MHz) and analog (> 7.0 MHz) enables processing (images from the latest amateur cameras digital loss of bone and resolution. Somehow he scratched the divi ((the pitch is high. In the 10Hz + band + 20kHz we note a characteristic similar to the linear characteristic with deviations within ± 3 dB.



Digital Image Editing @

The tested mixer offers the same digit of the image ((image. So I refer to the previous LV number. Below is a list of CZC) (only specified parameters: [a] negative (3 versions), [b] lightness, [c] contrast, [d] saturation color, [e] change register for color: vertically (Vertical Color Shift), horizontally (Horizontal Color Shift) - this function enables coordinated display of the lumioance and chrominance signal, [1] image enhancement: composite picture enhancement, S-Video (S (Y / C, Picture Enhancement) - filters improve the picture readability.

Functional features - operation

The VMX410 mixer is a device that enables the drawing of two video signals @ and four stereo audio signals.

- The mixer contains only one digital channel with all the consequences: [1] the need to provide a stable signal to the analog channel B, [2] change of the source whether the stoppage of playback in channel B causes (! Instant

ny), next ((then select the parameter (in a specific case, we have the values 0 and 1, which correspond to disabled or enabled miks demonstration function). The total number of functions - up to 27 - is the dose shown, which makes it a bit difficult to set them for them meter pair. On SZCZC (SCie not S (! to CZC (100 changeable parameters. In addition, they can be saved in 4 memories ((cut.

- The mixer has 2 outputs for monitoring the video signal on the inputs and 1 output from the listening signal and the thrust output (the sound level on the headphones can be controlled by a separate potentiometer).

- A connector (XCON) is used for communication between the mixer and other devices.

In the manual you will find (a comprehensive and precise description of the possibilities of using the connectors. In addition, the Video Tech De signs company has various devices in its offer (devices that support the XCON connectors, and further assemblies are in preparation.

- Possibility to mix the sounds ((there are sufficient ones. 4 stereo channels (for each channel a separate potentiometer + sum), it is possible to connect to 4th channel of the microphone. Unlike other similar devices, this mixer

Mixer limitations

Signal mixing from 2 sources. One channel only ! digital. There is no functional potentiometer for the screen blanking function (Jader).

Summary

A very solidly designed and manufactured device. Impact resistant. Stabi1oie working (! Ce. It offers a lot of cool mixers, very useful correction functions.

The smoothness of mixes, the quality of effects and signals of audio and video after processing can be treated as a model for amateur devices. Probably the best blue-box.

Perfect for recovering written off archive recordings.

Price suggested by the Polish distributor, Studio Honek - below PLN 4,300.

R oman Roszko