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BROADCAST TECHNOLOGY & ENGINEERING

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Tested!

Plura PRM-217-3G

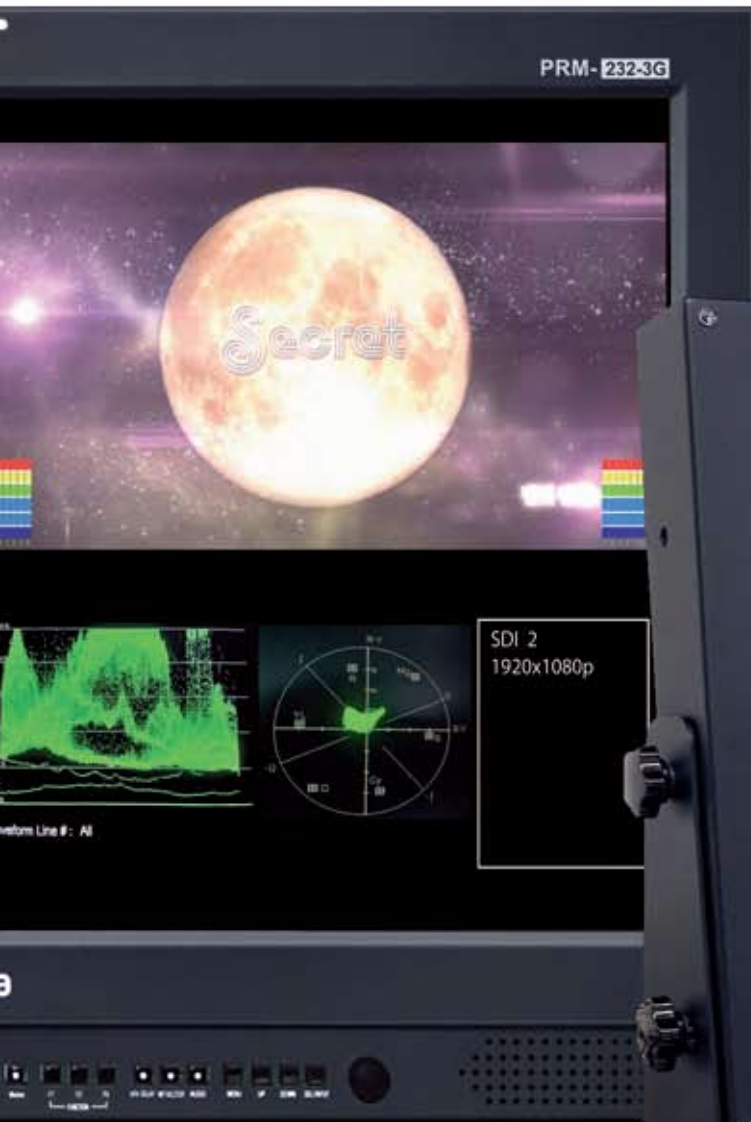


TEST
AREA



plura

®



Broadcast PRM-217-3G

THE BEST OPTION

In this new TM BROADCAST issue we analyze a kind of equipment that has a big presence in all our audiovisual productions. We are talking about the PRM-217-3G monitor from the American manufacturer " Plura Broadcast" represented by its subsidiary in Europe " Plura Europe GmbH ".

Txt: Pablo Martinez

Plura Broadcast, has extensive experience in the manufacture of technical systems for the broadcast industry worldwide , with excellent results. Always focused in facilitate the work of media professionals, with designs made considering the needs of the end user as described in the numerous positive reviews for their teams. We are in a situation in which the technology goes fast forward increasing multi - purpose products, with the highest possible characteristics and reasonable prices. On this monitor these premises have presence.

I work with all kinds of monitors during my workday. I meet with such classic tube monitors, although evicted years ago, but we still find them in almost all facilities, and also LCD panels, TFT, LED, etc, with different characteristics. With multi - screen generators is becoming increasingly complicated, through the screens on which are implemented, confirm that the



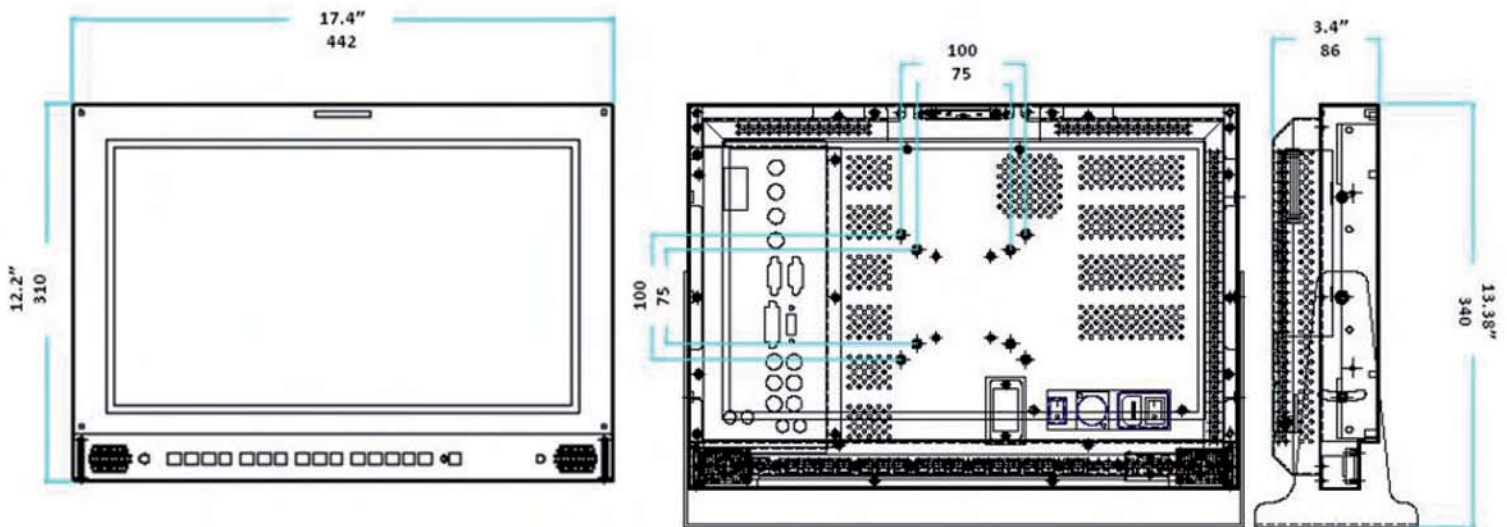


image you are monitoring is the standard reference we want in our productions. Hence the need for monitors capable of offering a reliable reference video, with the possibility of external calibration to adjust its parameters over the years, without having to perform on a single monitor a relatively excessive financial outlay.

WE VALUE THE POTENTIAL

We have a monitor that allows us to control quality of different signals, giving us several options for displaying data measured on the video and audio signal. Its main features are:

- •HD/SD SDI 2Input / 2Output.
- WAVEFORM / Vector Scope / Time code Display. - Dual waveform display available
- 16 ch Audio Level Meter Display. (SDI only)
- Analog & Digital Signal Audio Level Meter Display. - Lever Meter Size display selectable (Small or Large)
- Dual Link MODE & 1080p 60 Compatible
- Closed Caption CEA 608, 708, Line 801 & OP-47 • H Flip, H/V Delay.
- Audio Disembedder & Internal Speaker & Headphone out & Monitor out
- Color Temperature – User, VAR, 11000K, 9300K, 6500K, 5400K, 3200K
- Over Scan/Zero Scan/Under Scan/Pixel to Pixel
- PIP (Picture In Picture)/PIP Blend
- Tally LED function (Green/Red/AMBER)
- Integrated DVI (HDCP) function.
- HDMI (HDCP) function.
- Supports VESA DDC2B and a subset of VESA standards.
- Single board is suitable for mounting behind an LCD panel.
- Support RS-232C.
- Support External GPI Control (RJ-45).
- OSD: Graphic based OSD, 7 Languages (UNICODE System).
- LCD Dimming Control - Manual Dimming Level Control.
- Rack Mount (OPTION)
- Battery Mount (OPTION)
- UMD
- Native Calibration: CA-310, CA-210 (Minolta), K-10 (Klein)
- 10bits 3D LUT Color Calibration (BT.709, SMPTE-C, EBU, NTSC, D-Cinema)
- Multi Control(RS-232C)
- Lan To Serial
- Audio Loudness(LKFS)

The PRM- 217-3G monitor provides quick access to configuration menus, allowing you to create six memories functioning shortcut on the main keypad. A function that allows us to streamline the exchange of information and configuration data to display on screen, just pressing a memory button. The menu that shows the equipment is intuitive and logically structured, with easy navigation and selection of the various parameters to configure.

Once technically analyzed the signal quality monitor provides,

comparing patterns on several samples of video and audio and real signal, we get perfect results. The next step is to put it into production for verification of operation in a real environment. I support whenever I possibly can, making laboratories involving the personnel operating firsthand the different teams that I evaluate, so in this case I tested two different situations, because of the versatile this monitor is.

First was installed as measure monitor and main reference in the technical camera control site with a dual screen setup, the first switchable through the matrix, and a second fixed source in which we have the produced signal for On Air. This configuration on the same monitor allows us to easily manage the levels of video sources that we use in this production, making natural settings for control of cameras seeing reflected with vivid clarity on the monitor, and I did not detect problems at work and monitor response. In the second displayed signal I wanted to monitor on a given field video line, a feature included with this monitor that allows me to easily select the video line to check and monitor the data provided for faults.

On this position I did a test for temperature and stress along 48 hours. For which was injected video / audio signal on each input with loop video standard patterns and modified patterns, forcing levels of luminance and chrominance to check if it altered in some measure the sample and monitor display, for measurements on screen using a professional calibrator and its associated software, always on the same position. The results after 15 hours testing were represented by a variation of 0.01% over the initial levels of monitoring and signal processing, the signal values remained quite stable during this period. Personally I will say that I find some extremely good data



when compared to the alternatives in the market. Once done this test to other brand products offer a far superior error was obtained in comparison with the monitor Plura.

Once this first field test, the feeling of operators who could work with this monitor was overwhelming, highlighting the quality of the image and offered them operational con-



CONCLUSION

We are facing an extremely good equipment, for the versatility offered by the signals that can be analyzed and complementary functions that normally are not integrated in this type of monitor, with its robustness and price, is becoming one of the best options if we need to analyze and monitor video and audio signals. This laboratory is just a small sample of what they can do and their settings.

I invite all our readers to visit Plura website, where you will find out all the details and possibilities offered.

Thanks to IB3TV for the use of

control and measurement of two independent signals on the same monitor.

I also installed the monitor on a quality control position in the Master Control Room, where all incoming & outgoing signals of the TV Station are controlled. We placed a reflection of this monitor on the position of the technical supervisor where the management software allowed us to perform sampling data to generate quality reports on the different monitored signals. Three memories were performed on the monitor to visualize in a quick manner all necessary parameters for this quality control. Again, the PRM- 217-3G monitor demonstrated its ability to provide a quick interpretation of the received signals and to manage the checking of quality. Having the ability to perform the calibration settings for several standardized measurement equipment in the broadcast market, this added an additional value on the reliability of the monitor.



WHAT IS MISSED

The reality on Plura Monitor PRM- 217-3G is that nothing is missing, but I would appreciate the inclusion of external power supply within the basic purchase-package.

their facilities to perform these tests and to my colleagues for sharing their concerns to work with it, as well as Plura Europe GmbH for the transfer of equipment to perform this test.