Training and Broadcasting Replay - 05

Device "Training and Broadcasting Replay - 05" is designed to record the signal from the camcorder and simultaneously playback this signal on the external monitor screen with a preset time delay.
The camera and monitor are installed at the place where the training process takes place and allows the athlete to see and evaluate the quality of the exercise. It is also possible to use the device when issuing a broadcast signal with a delay in order to have a time reserve for emergency switching to a backup signal source.

The video recording begins when the device is turned on and a detained video signal appears through the previously selected time interval at the output of the device.
The device works in autonomous mode, continuously overwriting the existing memory of the SSD drive (we recommend using the models: "Samsung SSD 870 Evo Sata 2.5 250GB", "Transcend SSD225S 250GB"). A progressive video format "1080p50 Hz" is used with encoding "YCBCR 4: 2: 2 10 (BIT)" and intraframe video compression.
Such a record allows you to display the quick movements of athletes without visually visible losses. Sound recording, due to the absence of necessity in it, is not carried out (although it is possible, as an additional option when ordering).

Input video signal can be supplied to the input "HDMI" (when the camera is a few meters from the device) or to the input "SDI_3G" (when the camera is required from the device by 10-50 (m)). The selection of the input used is automatically made (the connection and disconnecting of the input signals is recommended when the device is turned off).

The output signal enters the output "SDI_3G", which allows you to place the video monitor at a large distance from the device (up to 50 (m). As a monitor, you can use a household TV with "HDMI" input, and the external converter of the signal "SDI 3G → HDMI" (purchased product).
After the power supply is turned on, before the extraction of the predefined interval, on Its output is formed by a test video signal, which allows you to check the performance of the display system.

The interval of delay (and other necessary parameters) is set from the PC (laptop), through a simple one to use the program. On the work field of the program, it is enough to set the main parameter - the time for the delay in playback.
More complex parameters are available on the menu. To connect the PC, the Gigabit Ethernet port is used. In addition to setting up the parameters, this port allows you to strimen for the training process to display it on the computer screen or broadcasting on the Internet (the computer computing

power is used to transcode into the necessary format). The Gigabit Ethernet port is also used to update the device software.

 The device is made in a metal case with dimensions of 162x120x44 mm and is powered by an external DC source 12 (VDC) 2A.

 When connecting the device through an external power adapter ~ 220V /+12V DC 2A (not included), all electrical safety measures must be observed.

 With increased requirements for electrical safety, we recommend using the battery (it is not included in the delivery).
A transit connector 12V DC is provided on the device's case for a video camera (a transition cable is purchased separately).

The purpose of the connectors on the device case:
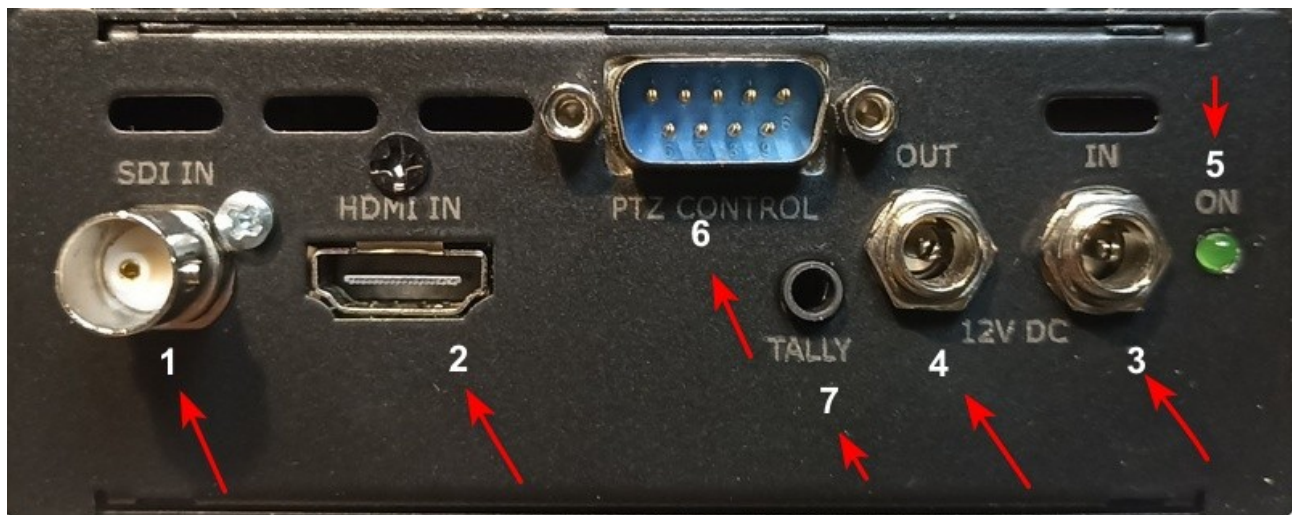
1. The entry of the video signal "SDI_3G";
2. Entering the video signal "HDMI";
3. Power supply "12 (VDC) 2 (A)";
4. Power output (on camera);
5. Indicator of the availability of input power;
6. RS-232 interface connector for PTZ camera control (in this model of the device, the function is optional and is performed on order);
7. Connector for external Tally indicator (in this model of the device, the function is optional and is performed on order);

8.   Connection of the port «Gigabit Ethernet»;
9.   Connector for SFP module (connecting the output video signal throughan optical channel allows to increase the distance up to 500(m) and control the device through a reverse channel (in this model of the device function is optional and made to order), SFP module is purchased separately);
10. Output of the delayed video signal.