Capture
Flash Pro

CFP-100

1) The status LED and the keyboard consists of 9 buttons which are mounted on the front panel of the device.

2) The power switch and two sets of connectors are situated on the rear panel of the device.
   – two <<VIDEO IN>> connectors (RCA and SVHS) to link up input video signals;
   – two <<VIDEO OUT>> connectors (RCA and SVHS) to link up video monitors;
   – the power receptacle <<12V DC>> to attach a power adapter;
   – the <<FS>> connector to attach an external control button;
   – the Compact Flash Card socket.

3) Input video signal standard: NTSC or PAL.

4) Output video signal standard: the same as input signal standard. Output video is transmitted to both <<VIDEO OUT>> connectors as Composite and S-video signals.

5) The device may be connected simultaneously to: One Composite or S-video source or two Composite and S-video sources of NTSC or PAL video; One monitor with Composite or S-video input or two monitors with Composite and S-video inputs; an external control button.

6) The format of the image frame recorded into a file on a Compact Flash Card is 640x480 RGB pixels of 8 bits each. The format does not depend on the type (Composite or S-video, color or b&w) and video standard (NTSC or PAL) of input video.

7) The image frame recorded into a file may be formed from one TV field or from two TV fields of a frame (defined by the menu item).

8) The file storage on a Compact Flash Card complies with the FAT16.

9) Number of files stored on a Compact Flash Card is defined by room of the used Compact Flash Card, but is not more than 512.

10) File names are produced automatically in increasing order.

11) Extension of all files is TIFF.

12) The device is compatible with Compact Flash Storage Card Type 1 of any volume, but more than 64 MB.

13) Graphic information screened on an external display contains the marker and menu.

   The marker is used to identify recorded images; the marker is included in a recorded image. The marker consists of two groups of symbols: the first group from 13 symbols contains a file name, the second group from 3 symbols – a file counter value. Characters of each symbol in the first group may be set by user from the keyboard before recording an image into a file.

14) Operation modes:
   – **<<LIVE>>** – view of input video: input video signal is transmitted to output.
   – **<<CAPTURE>>** – view of a captured image before recording it on the Compact Flash Card.
     To enter image/file name to identify recorded images – push the button "Up" or "Down" and select number/letter. The left and right keys are used to move from one character to another.
     • **<<SAVE>>** – save the image to the Compact Flash Card

– **<<MEMORY>>** – view of images that are recorded on the Compact Flash Card; viewing is made in forward or reverse direction.
– **<<MENU>>** – adjustment of video signal parameters using the menu: brightness, contrast, color, hue, sharpness. Additionally, the menu defines the procedure of image trans-formation that is executed before recording a captured frame on the Card; an image may be formed from one field or from two fields of a frame.
– Image rotation horizontally and vertically.
– Formatting of the Card and deletion of a single file or all files on the Card by selection of appropriate items of the menu.

15) Selection of modes is executed by using the embedded key-board and an external control button connected to the device.

16) The current state of the device is indicated by the LED placed on the front panel of the device.

17) The device is powered by an adapter 100-240V, 50 Hz, with stabilized output voltage 9-12V DC.

18) Power consumption is up to 250mA for 12V DC.

19) Overall dimensions – 146mm x95mm x 31mm.

20) Mass – about 0.4 kg.

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Fig. 1 Front Panel
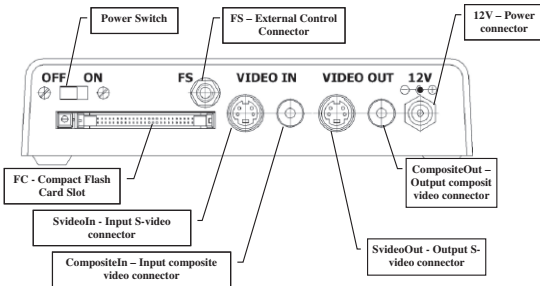

Fig. 2 Rear Panel

1) Connect power, input video and output video cables.

2) Insert Compact Flash Card in the slot.

3) Turn on the power switch to set the Live mode – viewing of input video.

4) Use buttons ▲ , ◄ , ► and ▼ for image mirroring.

5) Press the CAPTURE button to capture an image frame and to view it.

   Use the MENU button to turn on/off the marker.

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Use buttons $\boxed{\blacktriangleleft}$ and $\boxed{\blacktriangleright}$ to select symbol position for changing its content.

Use buttons $\boxed{\blacktriangle}$ and $\boxed{\blacktriangledown}$ to set required symbol on the selected position.

Press the $\boxed{\text{SAVE}}$ button to save captured image in a file on the Card and to return to the Live mode.

Press the $\boxed{\text{CAPTURE}}$ button again to return to the Live Mode.

6) Press the $\boxed{\text{MEMORY}}$ button to view images saved on the Card.

Use buttons $\boxed{\blacktriangle}$ and $\boxed{\blacktriangleleft}$ for viewing previous images, and buttons $\boxed{\blacktriangleright}$ and $\boxed{\blacktriangledown}$ for viewing next images.

Use the $\boxed{\text{MENU}}$ button to select a mode of file erasing.

To return to the Live mode press again the $\boxed{\text{MEMORY}}$ button or the $\boxed{\text{CAPTURE}}$ button.

7) To open the list of menu items press the $\boxed{\text{MENU}}$ button in the Live mode.

Figure 3 shows states and jumps between states.

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