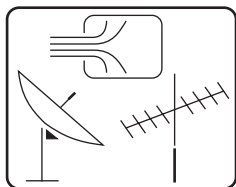


OPERATING INSTRUCTIONS

MIK 5S

Mini Info Channel – self starting



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We thank you for buying of a product of the company SAT-Kabel®.

This operating instructions shall help you to understand the functions of the instrument and to ease its use. If you have questions about this instrument or suggestions for further improvements, please get in touch with us.

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Associated elements

- 1 MIK 5S, basic device with wall mounting rail
- 1 wall power supply
- 1 audio/video cable
- 1 remote control with batteries
- 1 operating instructions

Product spezification

- Content format support:
 - JPEG (Baseline, up to 16 Megapixel)
 - Motion JPEG
 - MPEG-1 (QVGA resolution, up to 8 Frames per second)
 - MP3 (up to 320 Kbps; at pictures with sound only up to 128 Kbps)
- Connections:
 - Video (Composite) and Audio (Stereo)
 - Power
- Compatible Flash Memory Card formats
 - CompactFlash® Type I/II
- Special functions
 - self start after power blackout

Necessary items

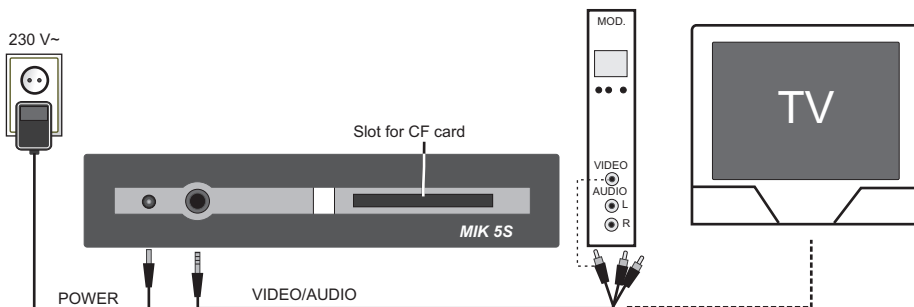
- For playback at least a TV set with A/V input (RCA).
For playback in a antenna system a suitable modulator with A/V input is necessary.
- For creating of the contents and storage on a flash card a PC with card reader and the suitable software for creating and processing of the desired information.

For attention!

With the MIK 5S it is not possible to write data on the memory card. Please pay attention at the playback of picture and sound material to the current legislation, especially to the copyright.

Installation of the MIK 5S

- Connect the power supply to the POWER socket of the *MIK 5S* – but don't connect it yet to the mains.
- Connect the audio/video cable with the modulator or for checking with a TV set. If another audio source is used, connect it to the audio inputs of the modulator.
yellow = video white = audio left red = audio right
- Connect the audio/video cable to the AUDIO/VIDEO input socket of the *MIK 5S*.
- Insert the batteries into the remote control.
- Switch on the control TV set – at antenna systems the modulator.
- Insert the CF card into the card slot (please do not use force). The *MIK 5S* is now ready for use.
- Connect the power supply of the *MIK 5S* into the mains socket. If the CF card is correctly inserted, the *MIK 5S* begins with the send activity. Naturally must be on the card photos (JPEG) or video clips (motion JPEG or MPEG-1). If no card is inserted, you see a request for the insert of the memory card. Please repeat this procedure without connection of the *MIK 5S* to the mains.
- If the *MIK 5S* is not switched on after approx. 30 sec., push once again the POWER key (on/off key) on the remote control. If there is no reaction, may be the device is defective. In this case get in touch with our company.



Self initialization

The special feature of this device is the automatic self start after a mains blackout.

General

- The self initialization of the device takes place automatically after mains blackout or system crash – e.g. by defective files on the compact flash card (CF card).
- After mains switch on it takes approx. ca. 30 s until the start of the self initialization of the device. Within this time no adjustments can be made with the remote control.

Before the self initialization starts and after the start of the send activity adjustments can be made with the enclosed remote control. Further information to the adjustments are made later in this operating instructions.

- After a system crash it takes maximally two minutes until the new start of the device.

Order of events

- 30 seconds after the switch on of the device a RESET will be released.
- After that is checked, if a compact flash card is inserted into the CF card slot.
 - ▶ If no card has been detected, the self initialization begins after approx. 1 minute once again.
 - ▶ If a card has been detected, it start the load proceeding of the data from the card to find out which file types are on the card (pictures, music, video, etc.). This procedure can take up to 40 sec., Depending of the volume of the data on the CF card. After that starts the send activity in a send loop.

Adjustments and options

After start of the send activity with the remote control can be made several adjustments. Some of them are not needed for the application as info channel and are therefore not further described. Don't use this possibility. If you should use such a adjustment accidentally, switch off the device. A defect or damage doesn't arise.

Several adjustments of the *MIK 5S* can be changed if necessary. Press the **SETTINGS & OPTIONS** button on the remote control to access the **SETTINGS & OPTIONS** menu. Use the arrow buttons and OK button to enter sub-menus and to select options. The activated Option is highlighted when you enter the menu. Push the **EXIT** key (conclude) to return to the previous menu or to leave the menu "SETTINGS & OPTIONS" without changing of the adjustments or push the OK key to store the changed option.

Select the menu:

- **STORING** – not needed
- **SLIDE SHOW** – to view or change the following settings:
 - PLAY ORDER** – Choose whether to show photos and video clips in alphabetical Order or randomly.
 - SLIDE-INTERVALL** – determine how long a picture shall be displayed on the screen, before the next picture is called. Pictures can be displayed only up to 30 sec. Because of the long load time.
 - SHOW LENGTH**– Choose whether to show every photo/video once and then stop, to loop playback of photos/videos or to show photos until the music stops.
 - TRANSITIONS EFFECT** – Choose which effect to use when changing slides, to randomly choose an effect each time or to use no effects at all.
 - MUSIC WITH SLIDE SHOW** – Choose whether music files should be played while showing slides. This is only functional if the CompactFlash card in the back slot contains MP3 files (see Playing Photos with Music).
- **MUSIC** – to view or change the following settings:
 - PLAY ORDER**– Choose whether to play songs in alphabetical order or randomly.
 - PLAY LENGTH** – Choose whether to play every song once and then stop or to loop playback of songs.
- **PRINT SETTINGS** – not needed in this case
- **LANGUAGE+** – for the desired menu language if necessary

- FIRMWARE – not needed

After conclusion of the menu "SETTINGS and OPTIONS" the slide show is to start by pushing the PLAY bottom.

Note about time interval: If times are needed longer than 30 s, store the corresponding file once again with a file name, which follows in the alphabetical order.

Example: Original file *picture0012.jpg* (30 s) + second file *picture0013.jpg* (30 s) = 60 s
 The content of both files are the same.

Creating of a slide show

To create and store the processed files on the flash card a separate computer with a suitable software is necessary. The ability to operate this computer is assumed. Depending of the files to be displayed graphic or picture processing programs are used. Most of them are available as freeware or Open-Source software. A suitable program must meet the following requirements: output of the picture in a format JPG with dimension (720×576 pixel), color depth (24 Bit = 16,7 Mio. colours) and resolution (96 dpi).

Creating of pictures

Start a new folder on the hard disc of the computer to store the processed files. Never don't overwrite the original files, especially pictures, during the processing. Because the format JPEG is a packed format, a repeated storage with overwriting can cause a loss of quality or a total loss of the picture! Another reason for the creating of a new folder is the setting of the order at the playback. The *MIK 5S* can playback the processed picture in a alphabetic order. Thus it is possible to realize a corresponding execution. Avoid using long file names! Use the old 8.3-schema. At tests occur problems with long file names.

A simple example shall show that (keep attention to the zeros):

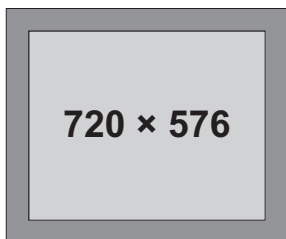
example 1	example 2	example 3
<i>picture0001.jpg</i>	<i>bathing.jpg</i>	<i>picture1.jpg</i>
<i>picture0002.jpg</i>	<i>flying.jpg</i>	<i>picture2.jpg</i>
<i>picture0003.jpg</i>	<i>sport.jpg</i>	<i>picture202.jpg</i>
...
<i>picture0202.jpg</i>	<i>summer.jpg</i>	<i>picture230.jpg</i>
<i>picture0203.jpg</i>	<i>winter.jpg</i>	<i>pictureBild3.jpg</i>
etc.	etc.	etc.

Take note of the changed order in example 3 by the syntax without zeros.
 The same happens in all other file formats as well.

Now insert the CF card of the *MIK 5S* into the corresponding card slot of the computer. A new removable drive is shown. Copy the processed files to this drive without to create a new folder – in the so-called root folder. This ensures the immediate start at switch on of the *MIK 5S* without to display a menu. After completion remove the removable drive, take out the CF card and insert this into the card slot of the *MIK 5S*. After the switch on of the power supply the slide show will start by oneself.
 Insert the CF card only when the device is switched off to ensure the prevention of data loss and damage.

Note for picture creation and picture format

In graphics or picture processing programs for screen size is usually specified a format of 640×480 pixels or 800×600 pixels. are the sizes for VGA and SVGA display, which are the measures of computer screens. The final storage of self-designed or ready pictures of the computer can optionally be done in the picture format 720×576 pixels. corresponds exactly to the PAL resolution of a TV picture in 4:3 format. No image parts are cut and there are no borders. The MIK 5S can display this pure PAL resolution. format is only applicable for a separate sound feeding to the modulator, such as a radio transmitter. However, if MP3 files are played to the picture, it is only the image format of exactly 640×480 pixels possible! For the resolution of the finished files choose 96 dpi. More cannot display a TV in 4:3 format. The files are smaller and it can be stored more on the memory card. not forget to 24-bit RGB colour depth as RGB. CMYK or other colour systems are not suitable.



Example 1:

The format corresponds to the PAL resolution

720×576 pixels

The picture fills the whole screen.

ATTENTION! No MP3 playback.



Example 2:

The format is not the PAL resolution, but it is the computer format with 640×480 pixels. The picture is aligned to both sides, but each cut off a strip (here, as black bars).

MP3 files will be played.

In a sound adding to the pictures with MP3 files can be used only the picture format 640×480 pixels - with the acceptance of partially cut borders. secure operation guarantee pictures created with graphic or photo-editing software. Presentation software can also store or export picture plates.

The resulting JPG files must be converted again with a suitable graphic converter in "running" JPG files, as tests have shown.

This guidance shall help to assure a stable flow to function. A certain period of training and experience is quite realistic, even if it is "only" a miniature of an information channel.

Final remark

We wish you a lot of success with this possibility, with low cost to distribute information for a specific group of people over a antenna system. For requirements and ideas, to be beyond the scope of this small info channel grasp, we naturally have professional systems.

When faults or problems occur with the device, please get in contact with our staff. We will definitely find a solution. Even questions for picture processing and creation of graphics can be answered. Also the making of pictures / slide show we can assume for you.

Cleaning and maintenance

The surface of the housing can be cleaned with a dry, soft and lintfree cloth. Do not use aggressive solvents for the cleaning.

This operating instruction has been drawn up to the best of our knowledge. Errors, technical amendmends and developments are subject to change without notice!

Updated operating instructions in PDF form can be also downloaded from our internet homepage. (www.sat-kabel.de)

Guarantee

State July 2006

For this instrument will be granted a service life (in following called guarantee) to following conditions:

- This guarantee is valid for new instruments purchased in Germany.
- New instruments and their components, which are defective because of production faults and/or material faults, are repaired or are replaced from SAT-Kabel® against a corresponding instrument.
- For wear parts, like accumulators, keyboards, housings, bags, connecting cables this guarantee is valid for 6 month from the purchasing date.
- The guarantee claim expires at matings by the purchaser or third persons.
- At defects, caused by improper handling or operating, by wrong installation or store, by improper connection or mounting, no guarantee is granted .
- For not justified demand of our service we charge for our service the usual payment for material, working hours and forwarding costs.
- Repairs are only made with filled service covering.

(Forms for service coverings and further information are found in the standard form contracts under:

www.sat-kabel.de)

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