VIN-11c

CVBS logo inserter

USER MANUAL FOR USE AND MAINTENANCE

Read the instructions before using the device. Keep this manual for periodic usage.



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WARRANTY

Dear User,

Thank you very much for purchasing our product.

Your purchase is a wise investment. The equipment you have purchased is manufactured with great care from high-quality parts and materials. It is designed to fully meet the needs according to specifications, if properly installed, used and maintained according to the enclosed instructions.

Any technical failure or deficiency that occurs during the warranty period specified on the invoice of the purchased equipment will be inspected and serviced by Sams elektronik doo or an authorized service center of the manufacturer, with the conditions set out in the warranty statement.

THIS DEVICE IS INTENDED FOR PROFESSIONAL USE.

WARRANTY STATEMENT

- 1. Product has declared characteristics. Within the warranty period, manufacturer ensures the removal of technical failures, product defects or replacement of products if declared characteristics of the product are changed.
- 2. If the goods are not delivered as specified with the contract, the consumer has the right to request from the manufacturer / service provider to eliminate the lack of conformity, without charge, repair or replacement, or to request an appropriate price reduction or terminate the contract.
- 3. Any repair or replacement must be made within a reasonable time without significant inconvenience to the consumer, taking into account the nature and the purpose for which the consumer has purchased the product.
- 4. The consumer has the right to terminate the contract, if he can realize the right to repair or replacement, or if the manufacturer / servicer has not completed repair or replacement within a reasonable time or if the manufacturer / servicer did not perform repair or replacement without significant inconvenience to the consumer.
- 5. The consumer may not terminate the contract if the lack of conformity of the product is negligible.
- 6. The product will function properly when used in accordance with the user manual.
- 7. Period of servicing the product is 6 years from the launch on the market.

The product purchased outside the territory of Serbia does not fall under the terms of this warranty, only to 1 year factory warranty from date of purchase.

TERMS OF WARRANTY

- 1. The warranty period begins on the date of sale referred in the invoice.
- 2. The buyer loses the right to warranty if the defect cause failure from not following the user manual instructions, improper installation, comes to mechanical damage during use, repairs and modifications by unauthorized persons, installation of non-genuine spare parts, and if the buyer does not comply with all warnings listed in the user manual.
- 3. The warranty is voided if the device is damaged during the disturbances from the environment, natural disasters (floods, hail, etc.), suffered an electric shock or lightning strike.

IMPORTANT NOTES

- 1. Be sure to thoroughly read the user manual.
- If you have any doubts about the instructions, contact the technical support of the manufacturer.
- 2. Before contacting for technical help, please make sure that are provided with all necessary conditions for normal operation.
- 3. If the malfunction or defect in the device does not eliminate within a reasonable time from the date of failure, the warranty period shall be extended for as many days as the unit is in service.
- 4. For all maintenance interventions shall solely be authorized services listed in this Warranty Certificate.



SAFETY WARNINGS



IMPORTANT SAFEY

WARNING TO AVOID RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THE UNIT TO MOISTURE OR RAIN



The symbol "lightning in a triangle" is to alert the user to the presence of high voltage. In poor conditions the user may be exposed to shock.



The symbol "exclamation mark in a triangle" is to alert the user to comply by the terms of use in user's manual, which is supplied with the device.



CLASS I DEVICE

Grounding is connected to the chassis of the device. The power supply is protected with fuse against overload.

WARNING

TO AVOID ELECTRIC SHOCK, DO NOT OPEN COVER.

DEVICE MAINTENANCE REQUIRES PROFESSIONAL PERSON AUTHORIZED BY THE MANUFACTURER.

- Read all safety and operating instructions before using the device. 1.
- Keep all safety and operating instructions. 2.
- 3. Follow the instructions from the user manual.
- 4. Do not upgrade device, except in the case advised by the manufacturer.
- 5. Do not use the device in the presence of water and / or moisture.
- 6. Do not pour water or moisten the device with any type of liquid.
- 7. Openings on device are provided for ventilation.
- 8. Do not block air flow through the ventilation openings.
- This product is powered by AC $\sim 230V \pm 10\%$, 50Hz. 9.

- This product is equipped with a three-wire cord with grounding.
 This device is equipped with a protective fuse in the power outlet. Do not bypass fuse.
 Do not replace the fuse. Replacement can be made by a person authorized by the manufacturer.
- 13. Do not bend the power cord so that it can be damaged.
- 14. Connect connectors as in the enclosed instructions. Deviations from the allowed values predicted for the inputs and outputs of the device can cause severe damage and warranty void.
- 15. Do not use the device in an environment that contains flammable or explosive materials in any physical state.
- 16. Turn off the power corde before cleaning. Do not use liquid, aerosol or flammable cleaners. Use only a dry cloth.
- 17. Servicing is performed by a qualified person. Removing the cover user is exposed to high voltages.
- 18. Never use the device when the cover is open and the device is powered on.
- 19. Do not expose to extreme high or low temperatures.
- 20. Do not expose to sudden temperature changes.
- 21. Call service in the following cases:
 - The power cord or plug is damaged
 - Liquid or foreign objects is inside the device
 - The machine is exposed to water and moisture
 - The device does not function according to specification
 - The unit has been dropped or damaged
 - The characteristics are significantly changed
- 22. Use only specified replacement parts.23. Professional person authorized by the manufacturer must check the device after completion of service.
- 24. Allow a free rack unit (1RU) above and below the device for ventilation or put rack fan under the device.

Pictures and drawings listed in this user manual are for information purposes only and may differ from the actual device. Design and specifications of the device may change without prior notice.

TECHNICAL SUPPORT AND SERVICE

Sams elektronik has made every effort to ensure that the equipment works in perfect condition. In the event that problems that occur can not be resolved, or if you have any questions regarding this equipment or information about other products produced from Sams elektronik, contact your local sales representative or call Sams elektronik directly through one of the ways listed below:

Sales: +381 11 3806 254 Technical support: +381 11 2402 212 Service: +381 11 4056 051 Email: Sales - sasa@sams.rs Technical support and service - sams@sams.rs

Web site: www.sams.rs

Address: SAMS ELEKTRONIK d.o.o. 48 Zivka Davidovica st 11050 Belgrade Serbia



Description

TABLE OF CONTENTS

UNPACKING AND INSTALLATION	6
MAINTENANCE	6
REMOVAL AND STORAGE	6
DESCRIPTION	7
INSTALLATION	8
FUNCTIONS	8
BLOCK DIAGRAM	9
NETWORK SETUP	10
NETWORK ACCESS AND DEVICE CONTROL	10
PLAYLIST SELECTION	11
LOGO CONTROL	11
LOGO POSITION	12
IMAGE PREPARATION FOR INSERTING	12
PREPARATION OF THE LOGO	12
PAY ATTENTION BEFORE INSERTING LOGO	15
SOFTWARE	16
REMOTE CONTROL	17
JOINT CONTROL OF INSERTERS	18
LCD TOUCH SCREEN - DESCRIPTION	19
STATUS OF DEVICE	19
MACRO STATUS	19
MACRO CONFIGURATION	20
GET LOGO	20
ADJUST LOGO LEVEL	21
ADJUST HV POSITION	22
EDIT GPI	22
MACRO EDIT	22
PLAY LIST	23
LOGO POSITION	24
LOGO LEVEL	24
FADE IN TIME	24
ADVANCED SETTINGS	25
SC PHASE	25
H PHASE	25
SOFTWARE SUPPORT	26
FRAMING	26
PROBLEMS AND SOLUTIONS IN A NETWORK ENVIRONMENT	28
CABLE WIRING BETWEEN DEVICE AND REMOTE CONTROL	30
CABLE WIRING FOR CONNECTION TO PC	30
CABLE WIRING BETWEEN THE LOGO INSERTER AND DigiTIM-1	30
GPI / TALLY PINOUT	30
NOTES	31

5

UNPACKING AND INSTALLATION

The box contains:

- Device
- Power corde
- User manual (optional)

Before use, check the contents of the box. For any deficiency report to the seller or the manufacturer of the product.

DEVICE IS INSULATED BY PROTECTIVE WRAP AND PACKED IN A CARDBOARD BOX. DEVICE IS SENSITIVE TO SHAKES AND DROPS. HANDLE WITH CARE DURING TRANSPORT AND ASSEMBLY.

Check if the product is damaged during transport.

PROCEDURES FOR SAFE USE OF THE DEVICE:

- 1. Remove the protective wrap from the chassis.
 - For devices that are AC 230V / 50Hz powered, the device is supplied with power cord.
 - Use only power corde that comes with the device.
- 2. Device is mounted in a 19" special-purpose rack cabinets designed for this type of device. Screw device with four screws. Screws for fastening are not supplied with the device.
- 3. The device must be connected to ground. A device that is not connected to the grounding does not function properly according to factory declarations and can cause adverse effects on users and other equipment.
- 4. Strictly comply to all steps for proper connection of devices in the system.



Places for fastening

MAINTENANCE

The system maintains only person authorized by Sams elektronik doo.

Any voluntarily opening device, upgrading or servicing is strictly prohibited and is subject to warranty void, and the possibility of injury.

REMOVAL AND STORAGE

- 1. Before dismantling the device, switch off the power, remove the power cord and remove all other connectors.
- 2. Remove the four screws for fastening.
- 3. Remove the device from rack cabinet.
- 4. Wrap the machine in the foil to protect it from dust. Package it in a box.
- 5. The device must be stored in a room without moisture.



Illustration - mounted device

DESCRIPTION



VIN-11c

CVBS motion logo inserter

- Power off / unit fail program video bypass relay High quality (10/21 bit) Programable hard or transparent key capability

- All four corner display capability Suport up to 229 independents logos
- Flash memory allows instant reprogrammability
- Analog preview output 7 preset animations
- Remote control panel with LCD touch screen
- Control of device via network trought web browser
- GPI control and TALY

The VIN-11c is device witch stores and recalls up to 229 individual, dynamically positionable logos to multiformat analog program signal. It supports real-time play back of video, and can store animated logos lasting up to 9 seconds. Inserter stores full bandwidth logos in high density flash memory that allows instant in-circuit reprogrammability. Logos sizes are 1/9th screen size (256x128 pixel). The device have 7 independently direct access logo settings (macro's). Every macro consist of a 230 steps deep play list and and several programable settings. Every step in a play list contains information of currently displayed frame and step duration time (from 1 frame to 40 minutes adjustable). Play list can be programmed to run animation once or to make a loop or to make static logo. Programmable setting per each macro are: transparency, fade-in time and position information for all four corners. Device can be controled with LCD touch screen remote control, via network trought web browser on any OS or trough GPI control switch. Advanced users can create custom applications for controling of device in playout sistems or some remote programming by sending special instructions. The device can be linked with DigiTIM-1 for some joint functions, like ON/OFF and corner position. To protected your program signal against failure or power interruptions, a built-in bypass relay routes the program input signal to the output (only for CVBS) for uninterrupted operation. Pictures are uploaded with included Image Uploader Software for PC or compatible. The device accepts Windows® 8-bit bitmap format.



TECHNICAL SPECIFICATIONS

GENERAL INFORMATION
- Code:
ANALOG INPUT
- Number:1, BNC female (relay bypass) - Signal type:CVBS - Impedance:
ANALOG OUTPUT
- Number:
MONITORING OUTPUT
- Number:

REFERENCE INPUT

TCP/IP - Number:1, RJ45
GPI INPUT - Number:
TALLY - Number:
RS-232 - Number:
PERFORMANCE - Bit Resolution: .10 bit extended, 21 bit mixer - Signal to Noise: .60 dB - Black offset: .5elf adjusting - H adjustment range: .0-128 (37ns step) - SC range: .0-360°
POWER - Voltage: ~230V AC ± 10% - Power: 30W - Frequency: 50Hz - Overload protection: front Mounted Circuit Breaker
TEMPERATURE - Performance:

Specifications and designs are subject to change without notice

ORDERING INFORMATION

Code Name 004.102 VIN-11c

Description CVBS logo inserter

VIN



- 1. TCP/IP (red LED) LED flashes when in communication with the device.
- 2. PC (red LED) when you put images into the device, the LED lights up, otherwise it is OFF.
- 3. RMT (red LÉD) when connected to a remote control, the LED lights up, otherwise it is OFF.
- GPI (red LED) if the GPI cable is connected, the LED lights up, otherwise it is OFF.
 REF (yellow LED) if the reference cable is plugged in, LED lights up, otherwise it is OFF.
- PGM (green LED) if the PGM cable is connected, the LED lights up, otherwise it is OFF.

BLOCK DIAGRAM



NETWORK SETUP

To change the settings, consult your network administrator.

The default IP address is 192.168.0.200. If there is a DHCP server, the device will be assigned a new address.

If there is a problem with connecting the device, check the firewall and allow UDP port 3040.

NETWORK ACCESS AND DEVICE CONTROL

The device can be configured through the web browser. First, the device must be found in the local network. To do this, start the Sams Netfinder software double clicking on the icon. The software first scans for devices.



Sams Netfinder: scan for devices

When the search is completed, a new window will open showing found devices.

SamS Elektr	onik, TCP/IP Equipme	nt Finder			X
	Show MAC Address	Show Time Powered	Show Time on Network	Sort By: Unsorted	•
Search Web Browser	DigiKEY-1 SamS SDI Keyer		IP Address: 19 MAC Address: 00-0b-3	92.168.0.6 3c-00-c7-70	
	Digivin		IP Address: 19 MAC Address: 00-0b-3	92.168.0.7 3c-00-4c-bf	
Exit					

Sams Netfinder: found devices

Click on the desired device and press the "Web Browser" located on the left side of the software. Browser will display the configuration options.

NOTE:

The device will be found from across the network only if the device was connected to a network cable before turning on. If the program NETFINDER does not find the device on the network, try the following: - Connect the inserter directly to the computer; - The computer set with fixed IP address, as follows: IP ADDRESS 192.168.0.15 SUBMASK IP 255.255.255.0 IP GATEWAY left blank; - Set REPAIR network card, in order to fully accept the new settings (alternatively RELEASE / RENEW scenario); - Try NETFINDER; - The device must be seen; - Write down the MAC ADDRESS and consult with the network administrator. NOTE: Do not use simultaneously with multiple places control over the network! Just enter the correct value in the permitted range. The manufacturer does not guarantee the validity of the results of irresponsible use of the device.

After a few seconds, the page will open.

🖉 DigiVin-1 (C)2008 SamS Elektronik - Windows Internet Explorer		
	Google	•
😭 🏟 🎉 DigiVin-1 (C)2008 SamS Elektronik	🗄 • 🖻 · 🖶	▼ 📴 <u>P</u> age ▼ 🎯 T <u>o</u> ols ▼ 🂙
Sams elektronik		<
PlayList 1 2 3 4 5 6	7	
Logo ON Logo OFF 86 Get Logo 197 Fadeln	127 Transp.	
Logo Position Up Left Up Right ↑ 0 H-Pos.]	
Down Left Down Right 4]	
Signal PGM SDI EXT Ref		
Done	😜 Internet	€ 100% ·

Web browser: configuration

At the bottom of the page, you can see the status of the device.

PGM - Programming Input: If it's green, it's OK. If it is red, check cable or video source. REF: if it is green, everything is OK. If it is red, check cable or reference source.

Device status is updated every 0.5 seconds.

PLAYLIST SELECTION

This is the option to select a preconfigured macros. By clicking on one of seven buttons, selected will turn green. Selected macro can be seen even if it is changed from another computer or a remote control.

LOGO CONTROL

This option includes:

- LOGO ON / OFF buttons to control when the logo will appear on / off in the program signal.
- GET LOGO select the logo that will be displayed in the program signal. Selecting this option turns
 off the macro. The value is entered in the box next to the button, after which it is necessary to click
 with mouse button (do nor press ENTER/RETURN).
- FADE IN this option sets the effect of appearance of logo after pressing LOGO ON button. The values are entered in the tenth of a second (1 sec = 10), and the maximum time is 25 seconds (250). The value is entered in the box next to the button, after which it is necessary to click with mouse button (do nor press ENTER/RETURN).
- Transparency this option sets the level of transparency of logo. The value is within the range of 0 to 100. The value is entered in the box next to the button, after which it is necessary to click with mouse button (do nor press ENTER/RETURN).

SOFTWARE BUGs:

By selecting images in the Get LOGO, it is not possible later to return to the old macro. The only solution is to choose another macro and then to return to the previous.

LOGO POSITION

This option includes:

- SELECT CORNER this option controls in which corner of the screen will be the inserted logo
- PLACE SELECTION this option controls the place of the inserted logo by control buttons up-downleft-right.
- H-POSITION This option controls the horizontal position of the logo by entering values. The value is entered in the box next to the button, after which it is necessary to click with mouse button (do nor press ENTER/RETURN).
- V-POSITION This option controls the vertical position of the inserted image by entering values. The value is entered in the box next to the button, after which it is necessary to click with mouse button (do nor press ENTER/RETURN).

IMAGE PREPARATION FOR INSERTING

General rules:

- 1. The logo is preparing an application Adobe[®] Photoshop[®].
- 2. The image size is 256x128px.
- 3. The logo is made in the RGB color palette.
- 4. he final version of the logo is converted to an 8-bit palette (Indexed colors).
- 6. The final version of the character is saved as BMP.

PREPARATION OF THE LOGO

The sign is (in principle) prepared in two ways. The rule, which is used depends mainly on ways how logo was created.

- 1. Logo preparation in application Photoshop[®] (raster logo) requires that the logo must be originally made for the size of the preparations for the inserter (we do not recommend this method):
 - Open a new document sized 256x128px, 300dpi, transparent background.
 - Open raster logo. The sign can not be scaled. It will lose quality.
 - Position the logo in the middle.
 - Convert to 8-bit palette (Indexed colors)
 - Select logo (Ctrl+click on layer) -> Meni: SELECT -> INVERSE (Shift+Ctrl+I)
 - Paint background in BLACK (R:0 G:0 B: 0)
 - Save As BMP.

2. Logo preparation in application Photoshop[®] (vector logo):

- (This variant is the most common and recommended as preparation)
 - Open a new document sized 256x128px, 300dpi, transparent background.
 - Open vector logo (Adobe Illustrator) in Photoshop®.

- Rasterize Generic PDF Format: Height: approximately 40-60px, resolution 300dpi, Mode: RGB, Anti-aliased: on/off (this option gives different results, and allowed the user to decide which to use), Constrain Proportions: ON -> OK.

- Transver logo to preparation window. Position the logo in the middle.
- Convert to 8-bit palette (Indexed colors)
- Select logo (Ctrl+click on layer) -> Meni: SELECT -> INVERSE (Shift+Ctrl+I)
- Paint background in BLACK (R:0 G:0 B: 0)
- Save As BMP.





Logo on picture 2 is 40px height. In this case, the logo was in the vector format. Convert logo in 8-bit color palette – Indexed colors (Picture 3).



Next, it will open Indexed Color options. On picture 4 are displayed setting. Select "Local (Selective)" Palette. The most important thing is that to select an option Black and White in settings "Forced". In this way BLACK will be the key.

Indexed Co	lor	
Palette: Colors:	Local (Selective)	OK Cancel
Forced:	Black and White 🔽	Preview
	Transparency	
- Options		
Matte:	None	
Dither:	None 🔽	
Amount:	%	
	Preserve Exact Colors	



Logo edges will be without Anti-aliasing. Select layer (Ctrl+click on layer) -> Meni: SELECT -> INVERSE (Shift+Ctrl+I)



Picture 5 - Selected layer



Picture 6 - Inverse selection

Paint background in black (R:0 G:0 B:0) (Picture 7)



Save As BMP

In BMP options select Windows File format and 8 bit Depth. Click on OK.





PAY ATTENTION BEFORE INSERTING LOGO

LOGO SIZE:

The most ideal logo size is 40-60px height (depending on the shape and proportions). Logo height / his part necessarily have to be an even number in pixels. It is very important that the character would not "flicker" on the screen.

SAVE AS BMP

Saving logo is the most important process. Be sure to check the background color after conversion to 8 bit color palette. The rule is that the background is marked as Index 0 (Idx: 0). You can check this by placing MOVE TOOL over background. If the background is at as shown in Picture 8, the preparation is successful. It is recommended that the name of the image is no larger than 8 characters written in small letters, in order to fully display name on the remote control and in order to prevent any system errors caused by the inability to display certain characters.

				×
Navigator	Info	Histogram	V	۲
R:	0	C:	9596	
A.G:	0	∦M:	83%	
В:	0	Y:	82%	
Idx:	0	K:	90%	
8-bit		8-bit		
+ X:	207			
1• Y :	56	4 H :		

Picture 8

NOTES:

Due to differences in the algorithm, for certain types of logos it is recommended to:

- Open prepared BMP file in the program Microsoft[®] PAINT

- Save As and overwrite an opened file.

If the appearance of the logo is not satisfactory:

- On left and right edges appears green and magenta - Change Aspect Ratio to 1.09 or change the width of 2px.

- Parts of logo "flicker" - correct logo in the parts that height have an odd number of pixels.

SOFTWARE

INSTALLATION

- Start SETUP.exe from installation disc
- Follow instructions due installation.

CONFIGURATION

- OS Windows[®]
- VGA: 1024x768px
- 15" moniotor
- Pentium or compatible processor
- COM port that can support boud rate 38400.



SOFTWARE

- 1. Exit from software
- 2. Selection of COM port
- 3. List of files in a folder
- 4. > Add selected images
 - >> Adding all of the images in folder
 - < Rejection of selected image
 - << Rejection all images
- 5. List of selected images
- 6. Button to start inserting pictures in the inserter
- 7. Preview of selected image
- 8. Stopping the process of inserting images in the inserter
- 9. Expected time for finalization
- 10. Name of the image that is uploading
- 11. Images position in list
- 12. Information of uploading
- 13. Progress bar
- 14. Preview of uploaded image
- 15. Location in disc drive

After selecting the folder, select the image you want to upload in the inserter. If you want more images at once use the CTRL key to select individual or SHIFT for group of images. After selecting press ">". If you want all images in the folder to add click on the button ">>". After that, the software will ask from

which number you want to upload images. If the inserter have pre-uploaded images, this can be useful, in order to avoid numbers of this images (unless if you want to overwrite them). After prepared image list, press the "UPLOAD FRAME(S)". Images will then start to be uploaded into the inserter. One image takes about 23 seconds to be uploaded into the inserter.

NOTES:

- To make the device function properly, presence of external reference is mandatory.
- Do not upload images in the inserter immediately after turn on. Wait for it to finish initializing for up to 2 minutes.
- Make sure that the inserter during images upload does not turn off.
- Not recommended that the first letter of image name is the capital letters: L, C and R.
- Maximum number of uploaded images which can store is 229.
- Maximum number of uploads is 20.000, whether it is a single image or all 299.
- If it happens that the logo does not meet the quality or have some artifacts, reuplad the same with the exact number as the previous one.
- BEFORE UPLOADING LOGO(S) INTO INSERTER UNPLUG TCP-IP CABLE FROM THE DEVICE! DURING UPLOADING LOGO(S) IN INSERTER, STOP ALL OPERATIONS THAT MAY AFFECT THE EXECUTABLE FUNCTIONS OF THE DEVICE!
- After the device is switched off, and then on, the system initializes about 2 minutes. During this period, the logos on the program output are not present, but loaded logos will be available on a "preview" output.

REMOTE CONTROL



REMOTE CONTROL

- 1. 9-pin connector for connection with inserter
- 2. LCD touch screen
- 3. Panel lock key. After pressing this key, LCD screen turn off. To turn on again, press again LOCK key.
- 4. Corner position keys. Each key calls the recorded position of the corresponding macro.
- 5. Keys for ON/OFF logo in program.
- ON to activate the logo in program with defined FADE IN time.
 - OFF turn off logo from program

NOTE:

LCD screen is touch-sensitive. Take care during pressing on the screen. For pressing on the screen, use only fingers.

Inadequate use of LCD touch screen is subject to warranty void.





Version of remote control, without LCD display (IR-1a) has the option to choose the corner and power on / off image. LOCK key in this version is called MACRO SELECT. By pressing this button, you can select 6 macros. MACRO SELECT and active macro keys flashing. The numbers next to the keys represent macro. Functions that are set via LCD screen, in this version are set via web browser by sending commands.

JOINT CONTROL OF INSERTERS

Compatible devices can be connected via RS-232 connector.

In this way allows simultaneous switching from one corner to another and at the same time appear / disappear. For easy reference, use the command IR-1d, which in 2RU panel has dual controls.





LCD TOUCH SCREEN - DESCRIPTION

During the initialization of the device (about 10 seconds) the display shows the manufacturer's logo. After initialization, the device displays the status and configuration macros.



When it is not used, LCD screen turn off after 2 minutes. To activate it, touch with finger anywhere on the screen.

STATUS OF DEVICE

Device status in a simple way showing all the necessary information, such as:

- Status of the programming signal "PGM" if in this status writes OK, everything is fine, and if it writes ERROR, check the presence of the program signal. NOTE: Due to the loss of the program signal, inserted logo will still be present on the background black. If a power is loss, relay protection will override the programming signal to the output without interruption.
- Status of the reference signal "REF" if in this status writes OK, everything is fine, and if it writes ERROR, check the presence of a reference signal.

MACRO STATUS

The device has seven configuration macros. Each macro can define different style of inserted logo, whether static or animated. Below the status of the program signal and the reference is printed information of the status of the active macro.

Macro status describes:

STEP - represents currently active frame of animation.

LOGO - represents the number of currently active image. These are numbers that are defined during the image uploading in the inserter. Below is the number of the currently active image.

HOLD TIME - time of active image. Time is reduced to zero, after which the display prints time of the next step.

H. POS - represents the horizontal position of the currently active macro. Values are changing in relation to the selected corner.

V. POS - represents the vertical position of the currently active macro. Values are changing in relation to the selected corner.

LOGO LVL - is the level of transparency of currently active macro.

MACRO CONFIGURATION

Press the button of the desired macro and then the MENU button.





Menu includes:

- GET LOGO In active macro and already configured animations temporarily recall an image.
- ADJUST LOGO LVL Temporarily set the level of transparency.
- HV ADJUST POS Temporary setting position of the displayed image.
- MACRO EDIT Configure active macro.
- EDIT GPI Configuration for GPI.
- EXIT Exits the menu.
- Number in the lower-right corner of EXIT button represents the number of active macro. The number is displayed in two ways:
 - Flashing background color macro is active

- Flashing inverted - the macro is not active. This happens when in macro set temporary adjustment: GET LOGO, LOGO LVL ADJUST or ADJUST HV POS.



GET LOGO

Get Logo Select Logo Logo: Ю test_001 7 9 8 4 5 6 3 1 2 Exit Show ø +

Press GET LOGO button in the menu. In a new menu select an image. You can select picture by typing the number in the numerical keypad or by pressing the plus and minus. Displays the currently selected image will be displayed above the numeric keypad with number and name. When you find the desired image, click the SHOW button. Currently Active macro will replace with selected image. SHOW button is no longer displayed. The number at the EXIT button that has so far flashed on the background color, flashing inverted. If you do not want selected image, you can change the selection, but this time any change is visible both in program and in the preview output (unless it is pressed LOGO OFF).



Press EXIT button to exit the menu. Press EXIT again to return to the main screen.



Since the active macro is changed, return to the main screen. Previous active macro will not be marked. Inverted number is now displayed on the main screen showing the previously active macro. You can activate any other macro than that was previously active.

ADJUST LOGO LEVEL



Press ADJUST LOGO LVL button in the menu. In a new menu select the level of transparency. Choose transparency by typing the number in the numerical keypad or by pressing the plus and minus. Currently selected transparency will be displayed above the numeric keypad. When you have selected the desired transparency, click the Show button. Transparency will replace with new selected in active macro. SHOW button is no longer displayed. If you do not like it, you can change it, but this time any change is visible both in program and in the preview output (unless it is pressed LOGO OFF).

Press EXIT button to exit the menu. Press EXIT again to return to the main screen.



Since the active macro partially changed, when return to the first page, active macro button will be marked. The number in lower-right corner is now not present on the main page.

ADJUST HV POSITION





Inserter

Status

test_001 HoldTime

00:00.00 H.Pos: 25 V.Pos: 40

Lo9oLv1: 80

PGM Ref

Step:

Logo:

0k

0k

0

0

test_001

test_001

test_001

Menu

Press ADJUST HV POS button in the menu. In a new menu select the position of the inserted image. The position can be selected by pressing the arrow keys. Display of the currently selected position will be printed above the arrow. Position will replace with new selected in active macro.

Press EXIT button to exit the menu. Press EXIT again to return to the main screen.

Since the active macro partially changed, when return to the first page, active macro button will be marked. The number in lower-right corner is now not present on the main page.

EDIT GPI

test_001

test_001

test_001

test_001



GPI provides for the mixer (which has this option) to control the display of inserted images. The device has the ability to control with two GPI buttons. Control can be defined when the key is turned on or off. In this way, the device allows the execution of four commands Press the desired option and then you can choose the configuration by typing the number in the numerical keypad or by pressing the plus and minus. Options include: Logo OFF, select Macro and position the image in the program, select one of stored images or no function.

MACRO EDIT



This configures the selected macro. Under this option, there are settings:

PLAY LIST - configuring animation

LOGO POSITION - Configuration position on the screen LOGO LEVEL - configure transparency

FADE IN TIME - Configure the appearance of the image in the program

PLAY LIST



Creation of animation works as a small non-linear editing. Editing is made by selecting an image and their duration within the animation.

- STEP defining step in the animation. The maximum number of steps is 230. If the animation is set to 25 frames per second, it seems that the overall animation of 229 images can last 9.2 seconds. The animation starts from STEP 0 (zero) and ends with a step that is defined with a time 00:00.00. The maximum duration of one step is 40 minutes. If the STEP 0 defined time 00:00.00, this means that there is no animation or logo is static. You can choose to type in a number in the numerical keypad or by pressing the plus and minus.
- If you make a mistake during the configuration, you can correct it by pressing the button: Ins Step add step in front of that is currently displayed; Step Del deletes the currently displayed step.
- NOTE: Take care when insert or delete step. Each time when button is pressed, the command will be executed without any indication.
- LOGO defines what image will be within the selected STEP. After selecting step, press the button LOGO. You can choose to type in a number in the numerical keypad or by pressing the plus and minus.



- HOLD TIME hold time of STEP. After selecting step and image, you must adjust time. Time is set independently for minutes, seconds and frames by pressing the appropriate buttons that define them. The minimum hold time is one frame and maximum is 40 minutes. You can choose to type in a number in the numerical keypad or by pressing the plus and minus.
- ANIM WIZ determines the final frame of the animation. You can choose to type in a number in the numerical keypad or by pressing the plus and minus. All settings of the STEP 0 will be included for the other images in order. All that is behind the final frame is defined with a time 00:00.00, which the device recognizes as the end of the animation, and start from the beginning. Once defined the last image in the animation, press the OK button.

LOGO POSITION



Hor. Pos	Edit	Posi	tion	
	Ver.	Pos	40	
Ver.Pos	7	8	9	
	4	5	6	
	1	2	3	
	-	0	+	Exit

Before entering this menu, press corner on the remote control that you want to define. Then enter the menu. Horizontal / vertical position, you can choose by typing the number in the numerical keypad or by pressing the plus and minus. After defining the position, press the EXIT button. Press the next corner and repeat the operation as the previous one.

LOGO LEVEL



Press LOGO LEVEL button in the menu. In a new menu select the level of transparency. Choose transparency by typing the number in the numerical keypad or by pressing the plus and minus. Display of current selected transparency will be displayed above the numeric keypad. When you have selected the desired transparency, click the Show button. After defining transparency press the EXIT button.

FADE IN TIME



Press the FADE IN TIME button in the menu. A new menu set time of appearance of a logo through fade in effect. You can choose time by typing the number in the numerical keypad or by pressing the plus and minus. Displays the currently selected time will be displayed above the numeric keypad. The value is entered in seconds. Shortest time for this effect is 0.1 and longest 25.5 seconds. After defining press the EXIT button.

ADVANCED SETTINGS



Press MENU button.

LOCK

When you enter the menu, press the LOGO ON plus LOCK button (in reverse combination does not work).

SC PHASE

SC

HP

F

Exit

This menu is used to adjust the Subcarrier Phase of the output video signal.

Left is one of 256 (0-255) values that can be entered on the keypad.

Right number represents the degree of phase rounded to whole number.

Select an option by pressing the left / right (</>) button.

To save, after adjusting in this and two other offered menus, press the EXIT button. Only then settings are saved.



0Z 0

8

5

2

< 0

9

6

3

×

7

4

1

CVBS

Select

input

CVBS&Y/C

Select

outpit

H PHASE

This menu is used to adjust the horizontal phase of the output video signal in relation to external reference.

The horizontal phase moves from 0-127.

During the change in value, it may cause short-term image disturbance in monitor due to the transition to a new time.

Select an option by pressing the left / right (</>) button.

To save, after adjusting in this and two other offered menus, press the EXIT button. Only then settings are saved.



FRAMING

This menu is used to set the color framing.

Due to the different length cables for external references, it is sometimes necessary to change the PAL sequence start. Color framing in a given field work only when connected to an external reference.

The factory default setting is 0.

It can be adjusted by selecting one of the two fields by selecting 0 or 1.

Select an option by pressing the left / right (</>) button.

To save, after adjusting in this and two other offered menus, press the EXIT button. Only then settings are saved.

SOFTWARE SUPPORT



The device supports the development of specific software for customer needs, whether it's a macro or remote configuration of software for playout systems, sending specific commands to the device IP address.

Commands are sent in the format: http://[IP_device_address]/get_data?[command]

For each command is entered a value: [command=value]

LIST OF COMMANDS:

ip_addr - changes ip address. Enter it in the form aaa.aaa.aaa.aaa.mmm.mmm.mmm.mmm,ggg.ggg.ggg.ggg.ggg (aaa - ip address, mmm - mask, ggg - geteway)

h_offset - horizontal phase shift. Enter from 0-127, where the increase in the value is 37ns.

sc_phase - sc phase shift. Enter from 0-255, where the increase in the value is 1.41 degree.

src_type - select the type of the input signal. The values are: 1 - cvbs, 2 - yc, 3 - yuv, 4 - beta.

dst_type - select the type of the output signal. The values are: 0 - cvbs&yc, 2 - yuv, 3 - beta, 4 - rgb.

pl_hvpos - adjusting the position of all 4 corners of the currently active macro. Enter in the form: x1/ y1,x2/y2,x3/y3,x4/y4. (x=0-431, y=0-624)

pl_lvl - level of transparency of the currently active macro. The values are from 0-100.

pl_step - defines a step in the animation of currently active macros. Enter in the form: step,logo,mm:ss:ff. (step=0-229, logo=0-228, mm=0-42, ss=0-59, ff=0-24)

pl_fade - Time for FADE IN effect in the current active macro. The values are from 0-255.

pl_flash - save into memory all commands under certain macro. The values are from of 0-6.

pls - macro select. The value of this command must be the same with the value of pl_flash. The values are from od 0-6.

pos - corner select. The values are from 0-3.

Ion - logo on/off. on=1; off=0.

hpos - temporary horizontal position.

vpos - temporary vertical position.

trn - temporary transparency.

Inum - temporary image selection.

- **pgm** check the presence of the program signal. This command gets the return value 1 or 0, where 1 signal OK and 0 signal ERROR.
- **ref** check the presence of the reference signal. This command gets the return value 1 or 0, where 1 signal OK and 0 signal ERROR.

gpi_a_open - set the GPI

gpi_a_close - set the GPI
ani h close - set the GPI
Values for GPL from 0-229:
0 - 199 - stop macro and show image with that number
200 - macro 0, up-left
201 - macro 1, up-left
202 - macro 2, up-left
203 - macro 3, up-left
204 - macro 4, up-left
205 - macro 5, up-left
206 - macro 6, up-left
207 - macro 0, up-right
208 - macro 1, up-right
209 - macro 2, up-right
210 - macro 3, up-right
211 - macro 4, up-right
212 - macro 5, up-right
213 - Illacio O, up-liglit 214 magra 0, down laft
214 - Macio U, uuwi-leit 215 - macro 1, down-left
215 macro 2 down-left
217 - macro 3 down-left
218 - macro 4. down-left
219 - macro 5, down-left
220 - macro 6, down-left
221 - macro 0, down-right
222 - macro 1, down-right
223 - macro 2, down-right
224 - macro 3, down-right
225 - macro 4, down-right
226 - macro 5, down-right
227 - macro 6, down-right
228 - logo off
229 - desable GPI (no function)

EXAMPLE:

http://[ip_address]/get_data?pl_step=5,17,00:00:15

This means: in the currently active macro, on step 5, add image 17, that will be present 15 frames The procedure for programming animations:

1. pls - choose a macro in which will be programmed animation.

2. pl_step - add steps for animation. If the animation, for example, in 10 steps, ten times must be added command for each step. Note: If animation is in loop, last step must be the in time format 00:00:00.

3. pl_flash - save animation in memory.

NOTE:

- If you use a web browser for programming inserters, we recommend that it be Mozilla Firefox[®], with desabled options to cache the page.

- It is not recommended to use Internet Explorer[™], due to some errors in the understanding of the application (problem with sending command in address bar, must press F5 - refresh to send) - AFTER SAVING (COMMAND PL_FLASH) FOR THE SELECTED MACRO, PLEASE CHANGE TO ANY MACRO AND RETURNED TO THE SAVED IN ORDER TO INITIALIZE SETUP.

PROBLEMS AND SOLUTIONS IN A NETWORK ENVIRONMENT

If the software NETFINDER is not able to locate the device in the network try the following:

- 1. Right click on Local Area Connection
- 2. Select option "Change Windows Firewall settings"



3. When a window "Windows Firewall" opens select tab "Exceptions"

🐸 Windows Firewall 🛛 🔀
General Exceptions Advanced
Windows Firewall is helping to protect your PC
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
🔮 💿 🗓 (recommended)
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Friewall blocks programs. Selections on the Exceptions tab will be ignored.
Off (not recommended)
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
What else should I know about Windows Firewall?
OK Cancel

4. Click on button "Add program"

🐱 Windows Firewall 🛛 🛛 🔀
General Exceptions Advanced
Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk.
Programs and Services:
Name
Adobe Dreamweaver CS3
Adobe Version Cue CS3 Server
✓ Bonjour
✓ File and Printer Sharing
✓ Internet Explorer
Add Program Add Port <u>E</u> dit <u>D</u> elete
☑ Display a notification when Windows Firewall blocks a program
What are the risks of allowing exceptions?
OK Cancel



5. Click button "Browse".

Add a Program
To allow communications with a program by adding it to the Exceptions list, select the program, or click Browse to search for one that is not listed.
Programs:
Br Adobe Bridge CS3
Adobe Device Central CS3
Dw Adobe Dreamweaver CS3
Adobe ExtendScript Toolkit 2
🚅 Adobe Extension Manager CS3
Adobe Flash CS3 Professional
Adobe Flash CS3 Video Encoder
Adobe Illustrator CS3
Adobe InDesign CS3
Adobe LiveCycle Designer 8.0
Adobe Photoshop CS3
Path: C:\Program Files\Adobe\Adobe Bridge CS3\Br Browse
Change scope OK Cancel

6. Select application NETFINDER.

Browse						? 🗙
Look jn:	🞯 Desktop		*	6 🕫	• 📰 প	
My Recent Documents Desktop My Documents	My Documents My Computer Totalsemd totalsemd Server	ices				
My Computer						
	File <u>n</u> ame:	netfinder			*	<u>Open</u>
My Network	Files of type:	Applications (*.exe;*.com;*.ic	d)		*	Cancel

8. Click "Open", and "OK". "OK" and "OK"

If the above solution does not help, try the following:

- 1. Download from address "http://www.softcab.com/dhcp-server/index.php" Tiny DHCP server*.
- 2. Before installation, note down the MAC address of the device.
- 3. Turn off the UTP cable, and if your computer has another network access, BT, WiFi etc. disable them.

4. Network card on your computer set to a fixed address 192.168.0.1, subnet mask 255.255.255.0, default gateway and DNS leave blank.

- 5. Turn off all kinds of firewalls completely.
- 6. Install Tiny DHCP server.
- 7. In Tray icon will appear in the form of two shaking hands.
- 8. Click on that icon.
- 9. In the opened window, click the button "Add new".

10. Enter the MAC address of the device (MAC address is entered without dashes, dots and spaces) and press OK.

11. If the field is not marked with the MAC address of the device, click on it.

12. In the right part of the window in the drop down menu instead of "Ask me" choose "Automaticallz process the request".

13. In the IP Address field enter 192.168.0.200 (can be some other IP)

- 14. Connect the UTP cable to the computer and the other side to the device.
- 15. Turn on device.
- 16. Wait the computer to show "10mb connected..."

17. If the "tray" icon of DHCP server has not changed its color when you turn the device, turn the unit

- off, wait for a while and turn it on again.
- 18. Start application NETFINDER.

* Tiny DHCP server is free software, which is owned by the publisher SoftCab, Inc.

CABLE WIRING BETWEEN DEVICE AND REMOTE CONTROL



CABLE WIRING FOR CONNECTION TO PC



CABLE WIRING BETWEEN THE LOGO INSERTER AND DigiTIM-1



GPI / TALLY PINOUT



GPI A, GPI B - Setting the GPI button TALLY A - LED is on when there is no incoming signal TALLY B - LED is on when the logo is on



NOTES
