

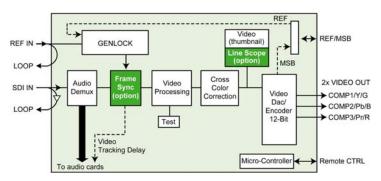
ENC-1103

DESCRIPTION

The ENC-1103 is a high-quality encoder with 12-bit conversion allowing operators to convert a SDI signal to Composite, CAV or RGB. The composite outputs can be NTSC, PAL or PAL-M and the component outputs can be SMPTE. BETACAM or GBR formats. With its on-board Genlock and Video Proc-Amp, the card provides flexible system integration. An optional Frame Sync provides infinite timing adjustment relative to an external reference. When embedded audio is required to be separated into discrete channels, the built-in audio demux (24-bit) allows up to 8 channels (2 groups) to be passed to an audio card. New technology includes thumbnail generation and an optional Waveform/Vectorscope over IP of the output signal which allows operators to control and see the changes made to the signal.

This card operates with the MSB-1121 Monitoring Switching Bridge which allows the output of any module in the Densité frame to be monitored.

FUNCTIONAL BLOCK DIAGRAM



SPECIFICATIONS

INPUT

S	G	Ν	A	L:
-	-		<i>'</i> `	<u> </u>

EMBEDDED AUDIO: CABLE LENGTH: RETURN LOSS:

SMPTE 259M-C (270 Mbps) isolated with active loop through SMPTE 272M-A 300 m (1000') of Belden 1694A > 15 dB up to 270 MHz

EXTERNAL REFERENCE

SIGNAL:	NTSC SMPTE 170M, PAL ITU
	624-4 or Composite sync with
	passive loop-through
RETURN LOSS:	> 35 dB up to 5.75 MHz

Features and Benefits

- SDI isolated input w/active loop-through
- External reference input w/passive loop-through
- Up to six (6) Composite / two (2) CAV analog video outputs
- 12-bit D to A video conversion
- Line comb pre-filter selection for NTSC
- Video processing controls •
- Hot-switch detection and handling
- Frame Sync Option provides timing, full phasing and • freeze modes
- **Thumbnail Generation**
- Waveform/Vector over IP option (operates with iControl)
- Provides output to Monitoring Switching Bridge option (MSB-1121)
- De-embedding of 8 channels (2 groups) of audio to a linked audio card (ex: UAP-1781)

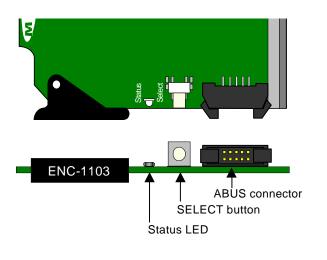
VIDEO OUTPUTS (6)

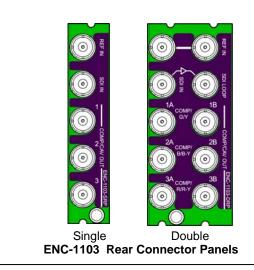
SIGNAL:

SIGNAL:	NTSC (525/60) SMPTE
	170M, PAL (625/50) ITU 624-
	4, incl. PAL-M
	Component Analog (GBR with
	sync on G or Y/B-Y/R-Y)
	Betacam and SMPTE Levels
RETURN LOSS:	> 35 dB up to 5.75 MHz

VIDEO PROCESSING PERFORMANCE

SIGNAL PATH:	10 bits
QUANTIZATION:	10 bits
DAC:	12 bits
SAMPLING:	108 MHz (8X over-sampling)
FREQ. RESPONSE:	COMP./Y : ± 0.1dB to 5.5
	MHz, +0/-0.6 dB from 5.5 to
	5.75 MHzR-Y/B-Y : ± 0.15 dB
	to 2.0 MHz
NOISE:	< -60 dB to 5.75 MHz
	(UNWEIGHTED)
DIFFERENTIAL PHASE	: < 1.5 degree
DIFFERENTIAL GAIN:	< 1%
PROCESSING DELAY:	75 µs (min.)
TEST GENERATOR:	• • •
POWER:	5 W





INSTALLATION

Make sure you have ordered and received the ENC-1103 and its associated rear panel. If any of the following items are missing, contact your distributor or Miranda Technologies Inc.

- * ENC-1103 SDI to Composite/CAV/RGB Encoder
- * ENC-1103-SRP or ENC-1103-DRP Rear Panel (see figure)

The ENC-1103 must be mounted in a DENSITÉ frame. The installation includes both the ENC-1103 module, and the rear panel module. It is not necessary to switch off the power from these frames when installing or removing the ENC-1103.

When used in conjunction with an audio module such as the UAP-1781, the ABUS flat cable needs to be installed between the ABUS connector of the ENC-1103 and the connector of the audio module. The ABUS flat cable is supplied with the audio module.

Detailed instructions for installing cards and their associated rear panels in the Densité frame are given in the Densité Frame manual.

Rear Panel Options

The ENC-1103 has different output types: composite, CAV and RGB. Three composite outputs or one CAV/RBG output is available on the single-width rear panel; six composite outputs or two CAV/RGB outputs are available with the double-width rear panel.

When a double-width rear panel has been installed, the module must be installed in the right-most of the two slots covered by the panel in order to mate with the rear panel connectors. Should it be installed in the wrong slot, the front panel LED will flash red. Move the card to the other slot for correct operation. No damage will result to the card should this occur.

OPERATION

Overview

The DENSITÉ frame incorporates a central controller card, located in the center of the frame, it is equipped with an LCD display and a control panel. The controller handles error reporting and local and remote control for all cards installed in the frame. The display and control panel are assigned to the card in the frame whose SELECT button has been pushed.

User Interface

Pushing the SELECT button will cause the on-card STATUS LED to flash yellow, and the card identification and the current status will be shown on the controller card's display. The STATUS LED will revert to it's normal state upon a second push of the button, or after a short delay. The messages which may appear are shown in the top line of the menu chart on page 3

Status Monitor LED

The status monitor LED is located on the front card-edge of the ENC-1103 module, and is visible through the front access door of the DENSITÉ frame. This multi-color LED indicates module status by color, and by flashing/steady illumination, according to the following chart (which also indicates fault reporting for this card on the DENSITÉ frame's serial and GPI interfaces).

A "Flashing Yellow" Status LED indicates that the SELECT button on the front panel has been pushed, and the controller display and control panel are now assigned to this card.

The LED color assignments for some error conditions can be reconfigured by the user (see the chart and menu for details).

Example :

-SELECT button pushed twice when there is no input signal connected to the rear panel and the LED is steady red:

EN	- C	1	1	0	3					
NO	S	I	G	Ν	A	L				

Use the local control panel to access the detailed status report shown in the STATUS menu below.

	Serial Report	GPI Report	Green	Yellow	Red	Flashing Red
No input signal presence					0	
Reference mismatch					Q	
No reference					0	
No audio group 1				0		
No audio group 2				0		
No audio group 3				٥		
No audio group 4				٥		
Test				0		
Card System					0	

• : Factory default

iControl Interface

The operation of the ENC-1103 may be controlled using Miranda's iControl system. This manual describes the control panels associated with the ENC-1103 and their use. Please consult the iControl User's Guide for information about setting up and operating iControl.

In *iControl Navigator* or *iControl Websites*, double-click on the ENC-1103 icon to open the control panel.

	FRS-1103 [SLOT :	16]	
	Video Processing		Miranda
	Audio Processing	REM 525 Reference In Use: Input	
	Audio Output	Video Processing	
	Thumbnail	All Gain	
	RALM		800 0 0
	Blanking	Luminance	
	Timing		
	Reference Input	Chrominance	800 0 0
	Input Error		800 ()
₽	Test	Hue (degrees)	
	Operation Mode	-180	180
	Options	Black Level	
	ABUS	00.100 V	
	Factory	Cb	
	Alarm config.	00 <u>-800</u>	800 0 0
	Info	_ Cr	
	User Presets	00 _{.800}	800 0 0
	User1 Load Save	MOTOROLA DSR-4520X IRD	
	Profiles		

Note the following features of this panel:

Status Icons - At the top, to the left of the Miranda logo, are five status icons that report various aspects of the card's operation:



- (a) this icon shows whether manual card configuration of this ENC-1103 is on [LOC] or off [REM]
- (b) this icon reports the input format (525 or 625 lines)
- (c) reference status green if OK, red if an error has been detected, white if the reference is absent, yellow if the input is used as a reference
- (d) Audio/video test green during normal operation, yellow (as shown) when Test Mode is activated
- (e) ABUS multiple card configuration green if configuration and card setup are OK; red if there is a mismatch between the ENC-1103 configuration and the actual card setup

Move the cursor over an icon to see its current status in the **message area** below the icons. If there is an error status, the message will appear automatically. If there are multiple error messages, the display will cycle through them

Panel selection buttons – the buttons on the left side of the panel are used to select the contents of the main portion of the screen. The selected button is highlighted, and the main screen heading matches the button name. The column of buttons can be hidden/revealed by clicking the arrow icon at the left-hand side.

User Presets – the buttons at the bottom left control the saving and recovery of sets of user-defined card configurations

Profiles – the Profiles button opens a panel that allows the entire card set-up to be copied to other ENC-1103 cards

All of the individual control panels are described in detail below.

Panel	See Page
Video Processing	4
Audio Processing	5
Output	5
Thumbnail	6
Blanking	6
Timing	7
Reference Input	7
Input Error	8
Options	8
ABUS	9
Factory	10
Alarm Config	10
Info	12
User Presets	14
Profiles	

Video Processing tab

These controls reflect the type of output selected: *NTSC* or *PAL-M* (composite), *GBR*, *YUV* or *Betacam*.

ALL GAIN: -800, -799, ..., 799, 800: Sets Luma and Chroma gains to a specific value. When others gains are individually set, ALL GAIN reflects the average value of the combined gains for a given output format.

LUMA GAIN: -800, -799, ..., 799, 800: In Composite mode, sets Luma gain to a specific value.

CHROMA GAIN: -800, -799, ..., 799, 800: In Composite mode, sets Chroma gain to a specific value.

G GAIN; *B* GAIN; *R* GAIN: -800, -799, ..., 139, 140: In RGB mode, sets the gains for the individual components of the video signal to a specific value.

Y GAIN; B-Y GAIN; R-Y GAIN: -800, -799, ..., 799, 800: In YUV and BETACAM mode, sets the gains for the individual components of the video signal to a specific value.

HUE:-180, -179, ..., 179, 180: Sets Hue to a specific value in degrees.

BLACK LEVEL: -100, -99, ..., 99, 100: In NTSC mode, sets Black level to a specific value.

PRE FILTER: OFF, ON: In NTSC mode, applies a line comb pre-filter to the video input signal.

	ENC-1103 [SLOT : :	12]	
	Video Processing		Miranda
	Audio Processing		
	Output	Video Processin	g Composite Mode
	Thumbnail	- All Gain	
			800 0 0
		- Luminance	
	Blanking		800 0
	Timing	Chrominance	
	Reference Input		800 000
	Input Error	- Hue (degrees)	
•		33 .180	
	Options	- Black Level	
	ABUS	••••••••••••••••••••••••••••••••••••••	
	Factory	1	
	Alarm config.	Pre Filter	
	Info		
	User Presets		
	User1 🔻		
	Load Save		
	Profiles		

Audio Processing tab

Group Detected: highlights the AES audio groups detected in the input signal.

CH1,2,3,4, and *CH 5,6,7,8:* select the AES group to be used as source for channel 1 to 4 and 5 to 8.



Output tab

These controls allow the selection of the different output formats and parameters.

OUTPUT FORMAT: NTSC, PAL-M, GBR, YUV, BETACAM (for 525) or *PAL, GBR, YUV, BETACAM* (for 625): Sets the video output type.

VIDEO SETUP: O IRE, 7.5 IRE: In 525 lines operation, enables or disables 7.5 IRE units set-up on the output NTSC video signal.

H BLANKING: WIDE, NARROW: Sets the value of the horizontal blanking interval.

CLOSE CAPTION: In 525 lines operation, check the box to enable 7.5 IRE units set-up on line 21 of the output NTSC video signal.

GAIN: -75, -74, …, 74, 75: Sets the value of the overall output gain; this gain modifies the amplitude of the analog video signal amplification.

COLOR BARS: check the box to select a 75% color bar test signal at the output.

	ENC-1103 [SLOT : 1	12]		
	Video Processing Audio Processing			Miranda
	Output		Output	
	Thumbnail	Output Format NTSC	⊂ Video Setup	H-Blanking
		O PAL-M	• 7.5	
		O GBR		
	Blanking	O YUV	Close Caption	
	Timing	🔘 ВЕТАСАМ	P close caption	
	Reference Input			
	Input Error	Gain		
Þ			V	76 00 0
	Options	Color Bars		
	ABUS			
	Factory			
	Alarm config.			
	Info			
	User Presets			
	User1 🔻			
	Load Save			
	Profiles			

Thumbnail tab

Thumbnails are used to monitor the video output signal of the ENC-1103. Streaming parameters are set using these controls.

ENABLE: OFF, VIDEO: enables thumbnail streaming or turn streaming OFF

SIZE: SMALL, MEDIUM, LARGE: select the size of the Thumbnail image.

PLAYER: OFF,THUMBNAIL: Click on the Thumbnail box to enable the thumbnail Player. A window opens in the top section and shows a thumbnail associated with the SDI video stream that is being encoded by the ENC-1103.

• Note: you must check the VIDEO box in the ENABLE section to see the video image.

Quality and Refresh Rate:

- Use the left-hand pulldown to select the video quality to be sent by the streaming encoder. The choices are Poor, Normal and HiQ (e.g. high quality).
- Use the right-hand pulldown to select the refresh rate for the transmitted thumbnails. The choices are Fast, 1 sec, 2 sec, ... 10 sec.

Streaming Priority Control: Click the Take control from Slot [###] checkbox to force the Densité Controller for this frame to assign more bandwidth for this card's streaming output. Only one card in the frame can use this feature. It has no effect unless you have selected *Fast* for the refresh rate. The actual slot number of this card, as shown in the window title bar, will appear when the checkbox is ticked.

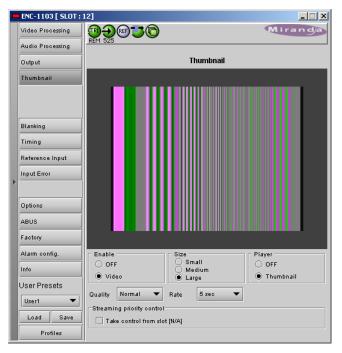
Blanking tab

Control over VBI data is achieved using this tab.

VBI: PROCESS, PASS, BLANK, LINE BY LINE: select whether the overall VBI data field will be processed, will pass or be blanked. If *Line By Line* is selected, use the right-side panel to set each line individually.

LINE BY LINE: Available when Line by Line is checked in the previous section. Radio buttons allows the selection of conditions for each line of the VBI data field.

SETUP: check this box to enable a 7.5IRE setup on the VBI.



ENC-1103 [SLOT : 1	12]				_ 🗆 🤇
Video Processing	@@ @ @ @			•	Miranda
Audio Processing	REM 525				
Output		I	3lanking		
Thumbnail	VBI	Line By			
	O Process		Process	Pass	Blank
	O Pass	6		۲	
	U F 435	7		۲	
Blanking	🔘 Blank	8		۲	
Timing	Line By Line	9		۲	
Reference Input	· · ·	10	0	۲	0
Input Error	🗌 Setup	11	0	۲	0
		12	0	۲	0
		13	0	۲	0
Options		14	0	۲	0
ABUS		15	0	۲	0
Factory		16	0	۲	0
Alarm config.		17	Ö	۲	Ö
Info		18	Ő	۲	Ő
User Presets		19	Ő	ě	Ő
User1 💌		20	ŏ	ě	Ő
		21	0		0
Load Save		22			
Profiles		22			

Timing tab

These controls provide access to timing adjustments which affect the signal outputs. There are three slider controls, each with a data reporting box which shows the current value, and into which values can be typed directly. If the Frame Sync option is not enabled, only the Horizontal delay may be accessed.

VERTICAL: 0, 1, ..., 523, 524 (for 525 operation), 623, 624 (for 625 operation): sets the number of lines for vertical delay. This control is available when the *Frame Sync option* has been activated (see *Options* tab).

HORIZONTAL (μ s): 69.7, 70, ..., 132, 133.22 (for 525 operation), 133.7 (for 625 operation): sets the horizontal delay in μ s.

HORIZONTAL FINE: -40, -39 ..., 39, 40: provides fine adjustment for the horizontal delay. This control is available when the *Frame Sync option* has been activated (see *Options* tab).

FRAME DELAY Pulldown box: sets delay by frame steps: 0, 1, or 2 frames. This control is available when the *Frame Sync option* has been activated (see *Options* tab).

	ENC-1103 [SLOT :	12]	
ł	Video Processing		
	Audio Processing		
	Output	Timing	
	Thumbnail	Vertical (Lines)	
		00 ¹⁰	
		Horizontal (µsec)	
	Blanking	0 0 12.33 63.62 0 0 12.33	
	Timing	r Horizontal Fine	
	Reference Input		
	Input Error		
		Frame Delay 🛛 🗸 🔻	
	Options		
	ABUS		
	Factory		
-	Alarm config.		
	Info		
	User Presets		
	User1 💌		
	Load Save		
	Profiles		

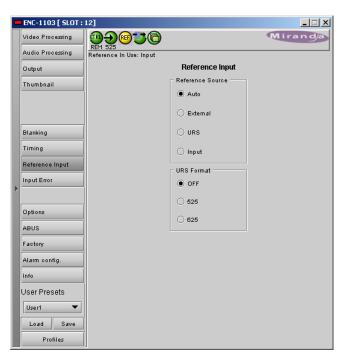
Reference Input tab

These controls allow selection of the reference signal.

REFERENCE SOURCE: Select between *AUTO*, *EXTERNAL* (use the REF input signal connected to the rear panel), *URS* (see below) or *INPUT* (use the input video signal as reference) as the reference source. AUTO mode searches for available signal in this order: REF input, URS and finally video input signal.

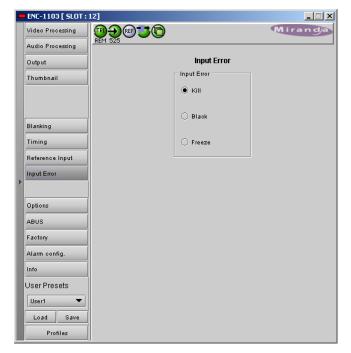
URS FORMAT: Select between OFF, 525 or 625 for the Universal Reference Signal format.

- The URS is a multistandard audio/video reference generated by an REF-1801 card, and distributed internally to all cards in the Densité frame
- The REF-1801 card must be installed in slot 10 of the Densité frame



Input Error tab

INPUT ERROR: KILL, BLACK, FREEZE: Sets card behavior when an input error is detected. When KILL is selected, the card will not take any action; BLACK will generate a video black at the output, and FREEZE will freeze the last video frame before the error was detected.



Options tab

Two options are available for the ENC-1103: the Frame Sync option (ENC-1103-OPT-FS) and the Line Scope over IP option (ENC-1103-OPT-LS).

FRAME SYNC Option : to activate this option, you must obtain a licence key from Miranda Technologies. Type in the licence key in the data box. Click the ENABLE OPTION button to enable additional timing controls.

	ENC-1103 [SLOT :	12]
	Video Processing	
	Audio Processing	REM 525
	Output	Options
	Thumbnail	Frame Sync Option IP Scope Option
		ENC-1103-OPT-FS(Frame Sync Option). ENC-1103-OPT-FS(Frame Sync Option). the ENC-1103 Encoder. For additional details, please consult our Web site at http://www.miranda.com.
	Blanking	Tor additional details, please consult our web site at http://www.miranda.com.
	Timing	To activate the option on this card, please contact Miranda Technologies Customer Service at +1-514-333-1772, and specify card serial number:
	Reference Input	075611-20008010
	· · · · · · · · · · · · · · · · · · ·	
Þ	Input Error	
		Frame Sync activation
	Options	Enterkey: Enable option
	ABUS	Frame Sync is Activated
	Factory	
	Alarm config.	
	Info	
	User Presets	
	User1 💌	
	Load Save	
	Profiles	

IP SCOPE Option: to activate this option, you must obtain a licence key from Miranda Technologies. Type in the licence key in the box. Click the ENABLE OPTION button to enable the waveform monitor and vector scope feature.

To view the waveform monitor and vector scope data, use the Streaming Player that is provided with the iControl software. Consult the iControl documentation to learn more about the Streaming Player.

Click in the *ENABLE* checkbox to enable the waveform monitor and vector scope data transmission, and select the line that will carry the data using the slider below. The *REFRESH RATE* pulldown box selects the desired refresh rate: *Fast*, *1 sec*, *2 sec*, *...*, *9 sec*, *10 sec*.

	ENC-1103 [SLOT : 3	12]
	Video Processing	
	Audio Processing	
	Output	Options
	Thumbnail	Frame Sync Option IP Scope Option
	Blanking Timing Reference Input	ENC-1103-OPT-LS (Line Scope Option). ENC-1103-OPT-LS is optional software that adds Waveform Monitor and Vectorscope over IP functions to the ENC-1013 Encoder. The displays are created from data generated by a line scope embedded in the ENC-1103 Encoder, and can be viewed on a standard PC using the Streaming Player provided with iControl. For additional details, please consult our Web site at http://www.miranda.com. To activate the option on this card, please contact Miranda Technologies
•	Input Error	Customer Service at +1-514-333-1772, and specify card serial number: 075611-20008010
	Options	IP Scope activation Enter key: Enable option
	ABUS	IP Scope is Activated
	Factory	Waveform Monitor & Vector Scope
	Alarm config.	Enable
	Info	- Line
	User Presets	
	User1 Load Save	Refresh Rate
	Profiles	

ABUS tab

When optional audio cards such as the UAP-1781 are used to provide additional audio signals, the ABUS audio bus links installed audio cards and the ENC-1103. The ABUS tab is used to instruct the ENC-1103 about the presence of installed audio cards.

Multiple Card Config sub-section:

The indicators signal the presence of UAP-1781 cards installed in the chassis. To enable the audio bus, use the pulldown box and select your system's configuration. Selecting *Video* restricts available audio signals to audio channels embedded in the SD input signal; Video / A1 or Video / A1 / A2 adds signals incoming from the installed audio cards detected.

-	ENC-1103 [SLOT :	12]	1
	Video Processing		1
	Audio Processing	REM 525	1
	Output	ABUS	
	Thumbnail		
		⊢ Multiple Card Config	
		A1 Presence	
	Blanking	A2 Presence	
	Timing	Card System Config	
	Reference Input		
Þ	Input Error		
ľ			
	Options		
	ABUS		
	Factory		
	Alarm config.		
	Info		
	User Presets		
	User1 🔻		
	Load Save		
	Profiles		

Factory tab

The Factory tab contains only the LOAD FACTORY button. Clicking this button will reinstate all default parameter values.

See the ENC-1103 Menu below (page 16) to see the default value for all parameters.



Alarm Config button

This panel allows the alarm reporting of the ENC-1103 to be configured. The panel opens in a new window when the button is clicked, and can be resized if needed.

The panel is organized in columns.

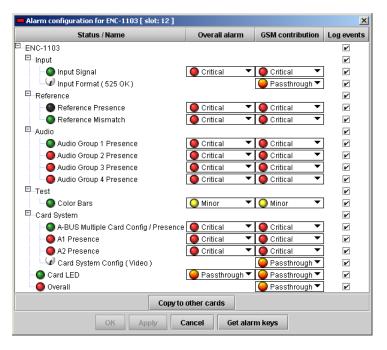
Status/Name

This contains an expandable tree listing all the alarms reported by this ENC-1103 card.

- Each alarm name includes an icon that shows its current status
- Some alarms may be text-only and the alarm status is shown in the name and not by a status icon, e.g.

🗆 🕼 Input Format (525 OK)

The **Overall alarm** and **GSM contribution** columns contain pulldown lists that allow the level of contribution of each individual alarm to the alarm named in the column heading to be set.



• If there is no arrowhead in the box, there is no pulldown and the alarm is not user-configurable

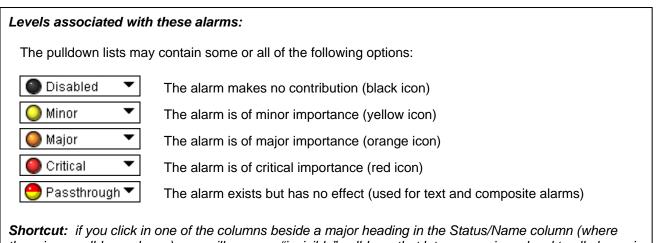
Overall Alarm

This column allows configuration of the contribution of each individual alarm to the Overall Alarm associated with this card. The Overall Alarm is shown in the upper left corner of the iControl panel, and also appears at the bottom of the Status/Name column.

GSM Contribution

This column allows configuration of the contribution of each individual alarm to the GSM Alarm Status associated with this card. GSM is a dynamic register of all iControl system alarms, and is also an alarm provider for external applications. The possible values for this contribution are related to the Overall alarm contribution:

- If the Overall alarm contribution is selected as Disabled, the GSM alarm contribution can be set to any available value
- If the Overall alarm contribution is selected as any level other than disabled, the GSM contribution is forced to follow the Overall Alarm.



Shortcut: If you click in one of the columns beside a major heading in the Status/Name column (where there is no pulldown shown), you will open an "invisible" pulldown that lets you assign a level to all alarms in that section of the column simultaneously.

Log Events

iControl maintains a log of alarm events associated with the card. The log is useful for troubleshooting and identifying event sequences. Click in the checkbox to enable logging of alarm events for each individual alarm.

At the bottom of the window are several other controls

Copy to other cards

Click this button to open a panel that allows the alarm configuration set for this card to be copied into other ENC-1103 cards.

- Select one or more destination cards from the list in the window by clicking in the checkboxes, or all of them by clicking in the *All* checkbox
- Note that when you do a Copy Profile for this card (see page 14), the alarm configuration is copied along with all the other settings.

ENC-1103 AppServerTable_3_4 9	Label	App. Server	Frame	Slot	Transfer s
ENC-1103 AppServerTable_3_4 8 ENC-1103 AppServerTable_3_4 1	ENC-1103	AppServer	Table_3_4	9	
	ENC-1103			8	
ENC-1103 AppServerLabC_Tabl 18	ENC-1103	AppServer	Table_3_4	1	
	ENC-1103			18	

Get alarm keys

Click this button to open a save dialog where you can save a file containing a list of all alarms on this card and their current values, along with an Alarm Key for each. The alarm keys are useful for system integration and troubleshooting.

• The file is saved in Excel.csv format

= Save			×		
Save in: 🗖	Infrastructure	▼ 4			
📑 Backup Fil	es	ADC-1101-63c.csv	🗋 IRD-3801-ST		
E Functionals		DEC-1003-studio 24.csv	🗋 REF-1801-27		
📑 Miranda do	ocumentation	ENC-1103-MCR-rack7-profi	les		
📑 Network R	esources	FRS-1103-MCR_rack_4			
📑 Servers		HCO-1831-MCR-profiles			
Troublesh	poting	HMP-1801-ST_5.csv			
File Name: ENC-1103-MCR-		-rack7-alarmkeys			
Files of <u>Type</u> : All Files			•		
		Sa	ve Cancel		

OK, Apply, Cancel

- OK accepts the settings and closes the window once the card confirms that there are no errors.
- Apply accepts the settings, but leaves the window open
- Cancel closes the window without applying any changes, and leaves the previous settings intact.

Info tab

When the ENC-1103 is included in an iControl environment, certain information about the card should be available to the iControl system. The user can enter labels and comments that will make this card easy to identify in a complex setup. This information is entered via the Info control panel. This panel also shows other information about the card.

- Label: type the label that appear for this ENC-1103 when it appears in iControl applications
- Short Label type the short-form label that iControl uses in some cases (8 characters)
- Source ID type a descriptive name for this ENC-1103
- Comments: type any desired text

-	ENC-1103 [SLOT :	12]		
	Video Processing		Miranda	
	Audio Processing	KEM 525		
	Output		Info	
	Thumbnail			
	Blanking			
	Timing Reference Input	Label:	ENC-1103	
		Short label:	ENC-1103	
	Input Error	Source ID:		
Þ		Device type:	ENC-1103	
		Comments:	Encoder	
	Options	Manufacturer:	Miranda Technologies Inc.	
	ABUS	Vendor:	Miranda Technologies Inc.	
	Factory	Service version:	1.00	
	Alarm config.		Details	
	Info	Advanced	Remote system administration	
	User Presets			
	User1 🔻			
	Load Save			
	Profiles			

The remaining data boxes show manufacturing information about this card.

• Details...: Reports the Firmware version, service version, and panel version for this card

- Advanced...: Shows the Miranda LongID for this card. The Miranda LongID is the address of this ENC-1103 in the iControl network.
- Remote System Administration opens the Joining Locators data box, which lists remote lookup services to which this ENC-1103 is registered.

Add: Force the iControl service for this ENC-1103 to register itself on a user-specified Jini lookup service, using the following syntax:

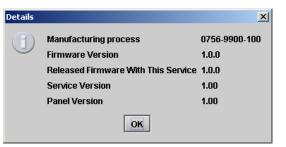
jini://<ip_address>

where <ip_address> is the ip address of the server running the lookup service

Enter the address in the Input data box, e.g.:

Input		×
9	Enter a new locator's URL	
9	jini://123.45.6.789	
	OK Cancel	

Remove: select one of the services listed in the window by clicking on it, and click *Remove* to delete it from the window.



Advance	1 <u>×</u>
1	Long ID: AppServer_LabC_1_IRD_Frame22_Densite_SLOT_12_85
	ОК

Joining Locators : ENC-1103	×
jini://123.45.6.789/	
Add Remove	
Huu	

User Presets

The User Preset controls allow the user to save and recover all configuration settings on the card.

Select any one of the five presets using the pulldown list. The name of the currently-selected User Preset is shown on the on the pulldown icon (e.g. *User1*, *User2*,... *User5*)

- Click *Load* to load the contents of the selected User Preset into the ENC-1103. All parameter settings and values will be replaced by the contents of the selected User Preset.
- Click Save to store the current parameter settings and values from the ENC-1103 into the selected User Preset. The existing contents of the preset will be overwritten.

	ENC-1103 [SLOT :	12]		
	Video Processing	CR D REF C	Miranda	
	Audio Processing	REM 525		
	Output		Info	
	Thumbnail			
	Blanking			
	Timing	Label:	ENC-1103	
	Reference Input	Short label:	ENC-1103	
	Input Error	Source ID:		
Þ		Device type:	ENC-1103	
		Comments:	Encoder	
	Options	Manufacturer:	Miranda Technologies Inc.	
	ABUS	Vendor: Service version:	Miranda Technologies Inc.	
	Factory		1.00	
	Alarm config.		Details	
	Info	Advanced	Remote system administration	
	User Presets			
	Load Save			
	Profiles			

Profiles

This section provides the option to save and recover the entire card configuration (including user presets if desired) on an external disk, or to copy it to another ENC-1103 card.

Click on the *Profiles* button at the bottom left corner of the control panel to open the Profile Copy window.

🛃 Profile copy for card [ENC1103]							
Copy profile from							
App. server	Densite	Slot	Card	Firmware	Profile	Select	Transfer status
AppServer_La	IRD_Frame22	12	ENC-1103	100	Current 🔻	Ľ	
Save profile to disk Restore profile from disk							
Copy profile to							
App. server	Densite	Slot	Card	Firmware	Profile	Select 🗌 all	Transfer status
AppServer_La	Table_3_4	8	ENC-1103	100	Current	~	
AppServer_La	Table_3_4	1	ENC-1103	100	Current		
	Copy Exit						

Copy Profile From:

This line shows this ENC-1103 card, and identifies it by App server, Densité frame and slot number, card type and firmware version.

The *Profile* column has a pulldown that allows you to select which profile you will work with, and gives these choices:

• Current, User1, User2, User3, User4, User5

The *Select* column includes a checkbox, preselected as checked, to confirm that you want to work with the current card.

Firmware	Profile	Select
102	Current	
	Current	
	User1	
Firmware	User2	Select 🗌 All
	User3 🐴	
102	User4	
102	User5	

Save Profile to Disk ...

Click this button to open a Save dialog allowing you to specify a file name and location to which the selected profiles for this card will be saved.

Hint - It is a good idea to create a folder for these files, because they are not explicitly identified as ENC-1103 profiles, and will be difficult to find and identify if not clearly named and conveniently located.

- Click the save button once the name and location have been identified in the Save box
- If the file is saved correctly, the Transfer Status box on the right of the *Copy profile from* line will indicate *Succeeded* against a green background
- If the file was not saved for some reason, the Transfer Status box to the right of the *Copy profile from* line will indicate *Failed* against a red background

Save Save in:	frastructure		a 6 0	3 88 8=
Backup File Functional: Miranda do Network R Servers Troublesho ADC-1101-	Gradient Commentation Gradient Comm	3-studio 24.csv D-MCR_rack_4 1-MCR-profiles 1-ST_5.csv -STD-1-profiles -27a.csv		
File <u>N</u> ame:	ENC-1103-MCR-rack7-pro	files		
Files of <u>T</u> ype:	All Files			-
			Save	Cancel

Restore profile from disk...

Click this button to open an Open dialog box within which you can locate and select a valid ENC-1103 profile file.

- Click Open to read the contents of the file and to reconfigure this ENC-1103's profiles according to its contents
- While the reconfiguration is in progress, the Transfer Status box on the right of the *Copy profile from* line will indicate *Working* against a yellow background
- When the reconfiguration is complete, the Transfer Status box on the right of the Copy profile from line will indicate Succeeded against a green background

Note: There is no need to select a profile using the Profile pulldown (e.g. current, User1, etc.) when restoring a profile from disk. The profile selection is stored within the file.

🕌 Open		×			
Look <u>i</u> n: 🗖	Infrastructure				
📑 Backup Files		DEC-1003-studio 24.csv			
🗂 Functionals		ENC-1103-MCR-rack7-profiles			
🗂 Miranda documentation		FRS-1103-MCR_rack_4			
🗂 Network Resources		HCO-1831-MCR-profiles			
🗂 Servers		HMP-1801-ST_5.csv			
🗂 Troublesh	ooting	🗋 IRD-3801-STD-1-profiles			
ADC-1101-	63c.csv	BEF-1801-27a.csv			
File <u>N</u> ame:	ENC-1103-MCR-rack7-profiles				
Files of <u>T</u> ype:	All Files	•			
		Open Cancel			

Copy profile to section

This line shows other ENC-1103 cards that are available on the iControl network, each identified by App server, Densité frame and slot number, card type and firmware version.

The Profile column shows the same information as is shown for the current card in the Copy profile from line, i.e.

• Current, User1, User2, User3, User4, User5

The *Select* column includes a checkbox to identify which ENC-1103 cards you wish to copy profiles into from the current card.

• For convenience, a Select all checkbox is provided in the column header

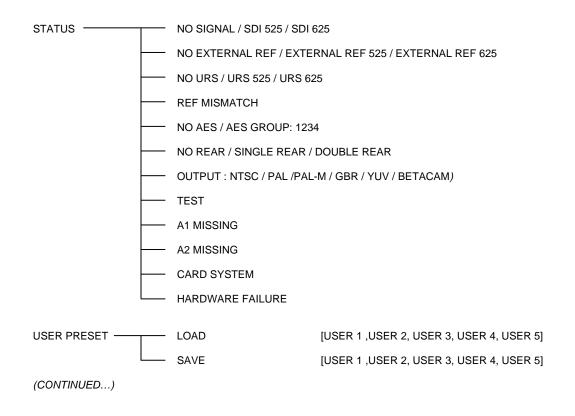
Click Copy to copy the selected profiles from this card into the selected other ENC-1103 cards

- While the profile copy operation is in progress, the Transfer Status box on the right of the *Copy profile to* line will indicate *Working* against a yellow background
- When the profile copy operation is complete, the Transfer Status box on the right of the *Copy profile to* line will indicate *Succeeded* against a green background

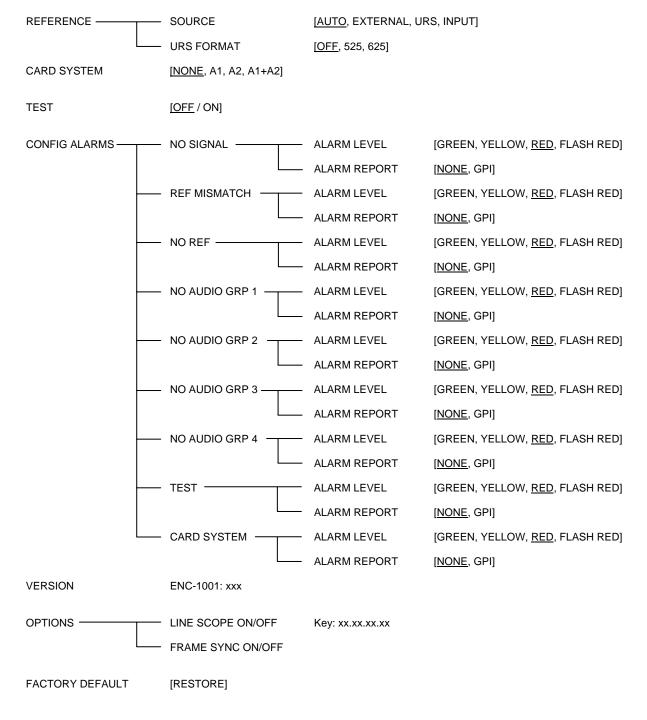
ENC-1103 Menu

Operating Parameter Adjustment

The ENC-1103 has operating parameters which may be adjusted locally at the controller card interface. After pressing the SELECT button on the ENC-1103 module, use the keys on the local control panel (described in the Controller card manual) to step through the displayed menu and adjust the parameters. The menus are shown below; <u>underlined</u> values are factory defaults.



OUTPUT		FORMAT	[NTSC, PAL-M, GBR, YUV, BETACAM]	(525)	
			[PAL, GBR, YUV, BETACAM]	(625)	
	<u> </u>	SETUP	[0, <u>7.5]</u> (<i>IRE</i>)	* Available with 525 input	
	<u> </u>	GAIN	[-75, -74, <u>0</u> 74, 75]		
		H BLANKING	[WIDE, NARROW]		
		СС	[OFF / <u>ON]</u>	* Available with 525 input	
		ALL GAIN	[-800, -799, <u>0</u> 799, 800]		
		LUMA GAIN	[-800, -799, <u>0</u> 799, 800]	* Available in composite mode	
		CHROMA GAIN	[-800, -799, <u>0</u> 799, 800]	* Available in composite mode	
		G GAIN	[-800, -799, <u>0</u> 139, 140]	* Available in RGB mode	
		B GAIN	[-800, -799, <u>0</u> 139, 140]	* Available in RGB mode	
		R GAIN	[-800, -799, <u>0</u> 139, 140]	* Available in RGB mode	
		Y GAIN	[-800, -799, <u>0</u> 799, 800]	* Available in YUV mode	
		B-Y GAIN	[-800, -799, <u>0</u> 799, 800]	* Available in YUV mode	
		R-Y GAIN	[-800, -799, <u>0</u> 799, 800]	* Available in YUV mode	
		Y GAIN	[-800, -799, <u>0</u> 799, 800]	* Available in Betacam mode	
		B-Y GAIN	[-800, -799, <u>0</u> 799, 800]	* Available in Betacam mode	
		R-Y GAIN	[-800, -799, <u>0</u> 799, 800]	* Available in Betacam mode	
		HUE	[-180, -179, <u>0</u> , 179,180]	(degrees)	
		BLACK LEVEL	[-100, -99,, <u>0,</u> , 99, 100]	* Available with 525 input	
		PRE-FILTER	[OFF / ON]		
AUDIO DE-EMBED -		CHANNELS 1234 CHANNELS 5678	[<u>GRP 1</u> , GRP 2, GRP 3, GRP 4]		
			[GRP 1, GRP 2, GRP 3, GRP 4]		
BLANKING ———		LINE 10 – 20	[PASS, BLANK, PROCESS, USER]* Available with NTSC output		
		LINE 6 – 22 LINE 11 – 20	[PASS, BLANK, PROCESS, USER]* Available with PAL output [PASS, BLANK, PROCESS, USER]* Available with PAL-M output		
				liable with PAL-IN output	
		VBI SETUP	[<u>OFF</u> / ON]		
INPUT ERROR		[KILL, BLACK, FREEZE FIEI	_D]		
TIMING		FRAME DELAY	[<u>0</u> , 1, 2, 3]		
			[0, 1, 2, 523, 524] (lines)	(525)	
			[0, 1, 2, 623, 624] (lines)	(625)	
			[<u>0</u> , 0.037, 0.064, 63,5] (us)	(525)	
			<u>[0</u> , 0.037, 0.064, 64] (us)	(625)	
		H FINE	[-40, <u>0</u> , 40]		
(CONTINUED)					



COMPLIANCE

Radio Frequency Interference and Immunity

This unit generates, uses, and can radiate radio frequency energy. If the unit is not properly installed and used in accordance with this guide, it may cause interference with radio communications. Operation with non-certified peripheral devices is likely to result in interference with radio and television reception. This equipment has been tested and complies with the limits in accordance with the specifications in:

FCC Part 15, Subpart B;

CE EN50081-1:1992;

CE EN50082-1:1992.

CONTACT MIRANDA

For technical assistance, please contact the Miranda Technical support centre nearest you:

Americas Telephone: +1-800-224-7882 e-mail: techsupp@miranda.com Asia Telephone: +81-3-5730-2987 e-mail: asiatech@miranda.com Europe, Middle East, Africa, UK Telephone: +44 (0) 1491 820222 e-mail: eurotech@miranda.com

France (only) Telephone: +33 (0) 1 55 86 87 88 e-mail: eurotech@miranda.com

Visit our web site at www.miranda.com