





Ref. 563805

HDMI ENCODER/MODULATOR - Dual HDMI Component/IP to QAM/IP

QUICK INSTALLATION GUIDE

www.televes.com

Safety instructions

Caution Statements

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Only use attachments/accessories specified by the manufacturer.
- 10. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- 11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Warning

• Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Safe operation

 Should any liquid or object fall into the equipment, please refer to qualified personnel for service.

Safe installation

- Ambient temperature should not be higher than 95°F.
- Do not place the equipment near heat sources or in a highly humid environment.
- Do not place the equipment in a place where it can suffer vibrations or shocks.
- Please allow air circulation around the equipment.
- Do not place naked flames, such as lighted candles on or near the product.

Simbology



Equipment designed for indoor use.

CE The equipment complies with the CE mark requirements.

used.

This symbol indicate the maximum and minimum temperature limits at which the equipment shall be



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Responsible party: Televes USA LLC. 16596 E. 2nd Avenue Aurora, CO 80011 USA Telephone: +1 (720) 379 3748 televes.usa@televes.com Manufacturer: Televes S.A.U. Rúa B. de Conxo, 17 - 15706 Santiago de Compostela, A Coruña. Spain www.televes.com

Description of connectors

Front view



- 1.- ASI input
- 2.- ASI output
- 3.- Power connectors
- 4.- Ethernet connector
- 5.- Ethernet connector
- 6.- Programmer connector
- 7.- RF loop through input
- 8.- RF output

Rear view



- 1.- YPbPr component input. Channel 1
- 2.- Closed Caption (CC) input. Channel 1
- 3.- Analog (L/R) audio input. Channel 1
- 4.- HDMI[®] input. Channel 1
- 5.- SPDIF digital optical audio input. Channel 1
- 6.- SPDIF digital coaxial audio input. Channel 1
- 7.- SPDIF digital coaxial audio input. Channel 2
- 8.- SPDIF digital optical audio input. Channel 2
- 9.- HDMI[®] input. Channel 2
- **10**.- YPbPr component input. Channel 2
- **11**.- Closed Caption (CC) input. Channel 2
- **12**.- Analog (L/R) audio input. Channel 2

LED indicators

		Color	Internal temp	Comment
	TEMP	Solid green	Normal	Safe
	IENIP	Slow blink orange	High	Warning
		Fast blink red	Very High	Danger
		Color	Channel status	Comment
		Off	Disabled	Channel disabled
	CH1 – CH2	Solid green	Lock	Input locked and unit encoding audio/video.
		Solid red	Unlock	Input unlocked and unit not encoding audio/video.
Front LED alarms		Blinking red	Boot	Unit starting up.
		Color	Output mode	Comment
		Solid green	Normal	Output RF channel is ON, broadcasting audio/video (normal mode).
	OUIPUI	Slow blinking green	Carrier wave, null, or muted	Output RF channel is OFF or in an alternate signal mode.
		Solid orange/red	Normal	Config bitrate doesn't fit in output
		Color	Output loop status	Comment
	LOOP	Solid green	ON	Output loop-through enabled. Units may be daisy-chained using the internal combiner.
		Off	OFF	Output loop-through disabled. Units must be combined using an external combiner.
Back LED indicators	A/V inputs	Indicate the currently	selected audio and video inputs	and where the input signals should be connected.

Installation

1. Install all units in the rack and connect them as shown. Each P.S.U. can power a maximum of 6 units, except in the case of using video resolutions of 1080p, in which only 5 units can be powered.



Fig. 1

Connect the audio and video input signals to the back of the modules.



Fig. 2

3. If a network that provides IP addresses through DHCP is available, connect the encoders to the network as shown in fig. 3. If such a network is not available, then a computer will need to be connected as shown in fig. 4.



4. Power on the units.



 Connect the programmer to each unit and set a unique number in the "# ID" field according to the order of installation of the units in the rack.



6. Connect the programmer to a unit, usually the first one, and read

the IP address. Each unit can work as a master controller for the other units. All units can be configured by connecting to only one.



Fig. 6

- **7.** If a network was connected in Step 3 then proceed to step 8. If not, set the address of you computer as follows:
 - IP value = 172.20.0.2 netmask = 255.0.0.0 gateway = 172.20.0.3
- **NOTE**: The default factory configuration of the units has an IP address in this range (it should be different for each unit). If a unit was ever provided an address before, manually or through DHCP, this unique address may no longer exist. Resetting to IP factory defaults, will return the original unique private address though.
- 8. In your web browser, enter the IP address from Step 6 as the URL. A login prompt will appear. By default the parameters are:

Login: encoder Password: encoder The **Status** > **Summary** page (fig. 7) should appear as the first page. This provides a summary of all the units installed in the network and the units will be sorted by the number entered in Step 5.

NCODE	R													Change Password 🏠
STATUS	CONFIGURATION ADVANC	DED												
SUMMAR	Y DETAILED													
# ¥	Model 👻	Temp	EAS	CH1	CH2	CH3	CH4	OUT	RF Loop	Output Table	Output Channel	IP	Watermarking ID	STATUS
1	563805 - Dual Component/HDMI/IP web connected	NORMAL	OFF	LOCK	LOCK	n/a	n/a	NORMAL	ON ON	CATV	2	RX	DISABLED	ок
6	563803 - Dual Component/HDMI	NORMAL	OFF	LOCK	LOCK	n/a	n/a	NORMAL	ON	CATV	2	n/a	DISABLED	ок
12	563805 - Dual Component/HDMI/IP	NORMAL	OFF	DISABLED	DISABLED	n/a	n/a	NORMAL	ON	FREQUENCY	474 MHz	RX	DISABLED	ок
13	563805 - Dual	0		0	0	n/a	n/a		0	CATV	2	RX	DISABLED	ок

Fig. 7 - Status > Summary

Fig. 8 shows an example of a detailed status page.

ENCOD MODULA	ER OR						Change Password 📅
STATU	CONFIGURATION ADVAN	CED					
SUMMAR	M DETAILED						
# w	Model w	ID v	Serial Number	Temp	Resolution/Framerate	Version Info	Upgrade Options
1	563805 - Dual Component/HDMI/IP web connected	2817917		56°C 133°F	C1 10801/60 C2 1080P/60	Hardware - 1.01.00002 Software - 1.04.00255 Boot - 1.00.00002 O.S 1.10.00012 User Interface - 1.10.00012	DEFAULT (No Upgrades)
6	563803 - Dual Component/HDMI	2818005		61°C 142°F	C1 1080P/59.94 C2 1080P/60	Hardware - 1.01.00051 Software - 1.04.00264 Boot - 1.00.00002 O.S 1.10.00016 User Interface - 1.10.00012	DEFAULT (No Upgrades)
12	563805 - Dual Component/HDMI/IP	2817889		67°C 153°F	C1/ C2/	Hardware - 1.01.00003 Software - 1.04.00255 Boot - 1.00.00002 O.S 1.10.00016 User Interface - 1.10.00012	DEFAULT (No Upgrades)
13	563805 - Dual Component/HDMI/IP	2817888		63°C 145°F	C1/ C2/	Hardware - 1.01.00002 Software - 1.04.00255 Boot - 1.00.00002 O.S 1.10.00016 User Interface - 1.10.00012	DEFAULT (No Upgrades)

Fig. 8 - Status > Detailed

Note: Resolution/Framerate will indicate the output video resolution only if it is different form the input one.

9. Configure all units:

Select "CONFIGURATION". This page has 5 options, INPUT, TRANSPORT, OUTPUT, IP and NETWORK, shown in figures 9 to 14.

The last column of each configuration page is "Select". Any changes made will be saved only in the units with the "Select" option checked when you click "Apply Selected" is applied to the five tabs that exist under the "Configuration" menu.

Some items have a choice of automatic configuration. For example, the Network Configuration page allows you to change the number assigned in step 5 of the installation process.

The "Auto" option will request confirmation if the parameters of all units set in step 5 have been changed. The order will probably not correspond with the position of the units in the rack.

9.1 INPUT

Configuration of the physical audio and video inputs. It is possible to downscale the input resolution, modify the video codec (MPEG-2 or H.264) or choose between frame or field encoding. If the input resolution is 1080p60/50 and the video is being encoded in MPEG-2 it is necessary to set the "Max Output Resolution" to 1080pHR. and frame/field encoding to "frame". In this setup the output resolution will be 1080P30/25.

Apply Selected

ΕN	CO	D	ER
мO	DUI	.AT	OF

INPUT I TRANSPORT I OUTPUT I IP I NETWORK

CONFIGURATION ADVAN

# v	Model w	Enabled	Video Input	Video Codec	Encoding	Video Bitrate (Mbps)	Max Output Resolution	Aspect Ratio	GOP	Audio Input	Audio Codec	Audio Bitrate (kbps)	Audio Level	Closed Caption	Select
	563805 - Dual	I1 🔽	HDMI 👻	H264 AUTO(4.0) 🔻	Field 👻	18,00	AUTO 👻	PASS *	15 💌	HDMI 48 kHz 👻	DOLBY -	384 -	14 💌	V	
1	web connected	12 💟	Comp. 🔻	H264 AUTO(4.0) 🔻	Frame 🔻	18,00	AUTO -	PASS -	15 -	OPTICAL ·	DOLBY -	384 -	14 🝷	V	×.
	563803 - Dual	I1 🔽	HDMI 🔻	H264 AUTO(4.0) 🔻	Field -	08,00	AUTO -	PASS -	15 🔻	HDMI 48 kHz 🔻	DOLBY -	384 -	14 💌	V	
0	Component/HDMI	12 🔽	HDMI 🔻	H264 AUTO(4.0) 🔻	Field 🔻	08,00	AUTO 🔻	PASS -	15 💌	HDMI 48 kHz 🔹	DOLBY -	384 💌	14 💌		
	563805 - Dual	11 🛅	HDMI -	H264 AUTO(4.0) -	Field *	25,00	AUTO V	PASS *	15 👻	ANALOG *	MPEG *	384 -	14 *	1	
12	Component/HDMI/IP	I2 🕅	Comp. *	H264 AUTO(4.0) ×	Field *	17,00	AUTO *	PASS *	15 *	ANALOG *	DOLBY ~	384 👻	14 *	1	
12	563805 - Dual	I1 🕅	HDMI *	MPEG2 ~	Field *	17,00	AUTO 👻	PASS *	15 *	ANALOG *	DOLBY -	384 *	14 *	1	
15	Component/HDMI/IP	12 🕅	Comp. 👻	MPEG2 -	Field *	17,00	AUTO -	PASS *	15 -	ANALOG *	DOLBY -	384 *	14 -	1	
Set Conf	iguration for all Units (4):		Select 🔻	Select •	Select 💌		Select 💌	Select 🔻	Select 💌	Select 👻	Select 🔻	Select 💌	Select 💌		

Apply Selected

9.2 TRANSPORT

Changing the parameters of the output Transport Stream. The TS ID, SID and VCNs of each service shall not overlap with those of another service the same unit.

											Change I	assword
NPUT TRANSPORT	· I OUTPUT I IP I	NETWORK										
# ¥	Model w	IN Name	IN SID	OUT Name	Table Type	Major CH. # w	Minor CH. #	TS ID	Video PID	Audio PID	OUT SID	Select
	563805 - Dual	n/a n/a	n/a n/a	C1 ATSC1 C2 ATSC2	CVCT 2 •	2	1		1001 2001	1002 2002	1	
1	Component/HDMI/IP web connected	Beauty Comed	54 60	IP2.2 Beauty IP2.3 Comedy	CVCT 2 V CVCT 2 V	2	3	1	auto auto	auto auto	3	
6	563803 - Dual Component/HDMI	n/a	n/a	C1 TVES C1 C2 TVES C2	CVCT 2 ·	3	1	2	1001 2001	1002	6	
12	563805 - Dual Component/HDMI/IP	n/a	n/a	C1 TVES C1	CVCT 2 *	3	1	3	1001	1002	8	
t Configuration for all	Units (3):	.,			Select •	Automatic channe	el numbering	Auto			Auto	
					Fig. 10 - Tra	ansport					Ар	oly Selecte
3.3 OUTPU	T the DE systematic		The unit	• • • • • • • • • • • • • • • • • • •								
betwee	n QAM A and C	AM B.	ine uni	t will restart if yo	SWILCH							

MODULA	TOR								Chan	ge Password 🏦
STATUS	CONFIGURATION ADVAN	CED								
INPUT	TRANSPORT OUTP	UT IP NETWORK								
# w	Model v	Table	Channel	Level	Mode	Interleaving	Baudrate (Mbaud)	Output	RF Loop	Select
1	563805 - Dual Component/HDMI/IP web connected	CATV -	2	0	256B •	1128_11 -	5,360	NORMAL	V	
6	563803 - Dual Component/HDMI	CATV ·	2	4	256B 👻	I128_J1 ·	5,360	NORMAL	V	
12	563805 - Dual Component/HDMI/IP	FREQUENCY -	474,0	0	256A 👻	I128_J1 ×	6,900	NORMAL •		
13	563805 - Dual Component/HDMI/IP	CATV ·	2	1	256B 👻	1128_J1 -	5,360	NORMAL		
Fat Car	figuration for all Units (4)	Colort			Colort w	Coloct =		Coloct	100	122

Fig. 11 - Output

9.4 IP

Set Configuration for all Units (4):

The unit can work in 3 different IP modes: Input, Output and Disabled.

Input: The unit needs to be set in Input mode and have the IP addresses, ports and standard (DVB or ATSC) configured.

Multicast and Unicast IP addresses are allowed. These parameters can be modified on the IP tab (fig. 12) and then click " Apply Selected"

Select 💌

Select 👻

Apply Selected

ENCODI MODULAT	R OR									Change	e Password 🏠
STATUS	CONFIGURATION ADVANCE	:ED									
INPUT	TRANSPORT OUTPL		DRK								
# v	Model ¥	IP MODE	IP Output type	Enabled	Standard	Services	IP	Port	MPEG data packets	MODE	Select
	563805 - Dual	Tenut -	erre -	1 🔽	ATSC 🔻	Select	225.0.1.4	1300	7 *	RTP •	
	web connected	inpuc •	SFIS -	2 🔽	DVB 👻	Select	225.0.1.5	1400	7 💌	RTP -	
6	563803 - Dual Component/HDMI	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	563805 - Dual	Trank		1 📖	ATSC *	Select	225.0.1.10	1100	7 *	RTP *	
12	Component/HDMI/IP	Input	SPIS *	2 🔽	ATSC -	Select	225.0.1.20	1200	7 -	RTP -	
	563805 - Dual		ama	1 🔽	ATSC -	Select	225.0.1.10	1100	7 -	RTP -	
13	Component/HDMI/IP	Inbut	SPIS *	2 🔽	ATSC -	Select	225.0.1.20	1200	7 -	RTP -	

Select • Select •

Fig. 12 - IP

INPUT 2 SERVICE LIST

Select	CH. Name	SERVICE ID	BITRATE CURR/MAX (Mbps)	
	N24 Aus	53	3.194/3.194	^
	Beauty	54	2.237/2.237	
V	Comedy	60	7.811/7.811	
	NICKELO	61	3.367/3.367	-

Free Output Bitrate: 5.425 Only Selected Services will be present in the output!

Store Changes

(close this page and save the configuration in the "web connected" unit to be sent clicking "Apply Selected" button in any of the configuration pages)

Discard Changes and Close

It is not possible to configure two equal IP adresses and ports, the Web will warn you that it is not a valid configuration and will not let you apply settings.

Pressing the "Select" button associated to each IP address, a window with the available services will appear.

If no services are shown wait until the end of the scan.

Select the services to transmit through RF paying attention to the free output bitrate and click on "Store Changes".

Finally, to apply the configuration, click "Apply Selected". The selected services will appear in the "Transport" tab next to the services of the physical inputs.

Output: To stream the services of the physical inputs via IP, the unit must be set in Output mode and have the IP addresses, ports, IP output type (SPTS or MPTS) and standard (DVB or ATSC)

configured. Multicast and Unicast IP addresses are allowed.

In SPTS mode, the physical input 1 will be streamed through the IP1 and physical input 2 through the IP2.

In MPTS mode, the two physical inputs will be streamed through a single IP.

If any of the physical inputs are disabled, the corresponding IP service will not have transport.

9.5 NETWORK

Configuring network options. Both the IP address and the networkmask may only be changed if DHCP mode is disabled (fig. 14).

ENCODER MODULATOR

INPUT I TRANSPORT I OUTPUT I IP I NETWORK

ID ¥	Model ¥	# v	MAC Address ¥	DHCP	IP Address	Network MASK	Gateway IP	Select
2817888	563805 - Dual Component/HDMI/IP	13	00:0E:7C:2A:FF:60	V	192.168.1.113	255.255.255.0	192.168.1.1	
2817889	563805 - Dual Component/HDMI/IP	12	00:0E:7C:2A:FF:61	V	192.168.1.112	255.255.255.0	192.168.1.1	
2817917	563805 - Dual Component/HDMI/IP web connected	1	00:0E:7C:2A:FF:7D	V	192.168.1.101	255.255.255.0	192.168.1.1	
2818005	563803 - Dual Component/HDMI	6	00:0E:7C:2A:FF:D5	V	192.168.1.106	255.255.255.0	192.168.1.1	
Set Configuration for all Units (4)):	Auto		V		Set Network Mask	Set Gateway IP	

Fig. 14 - Network

Apply Selected

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10. Complete configuration window:

To change any encoder value from a single window, select "CONFIGURATION". Click on the name of the unit and the page shown in figure 15 is displayed. From this page, you can modify any parameter settings for the selected unit.

					AD										
2	Model		Seria	I Number				MAC	ADDRESS				IP A	DDRESS	
1 Comp	63805 - Du ponent/HDI	al MI/IP						00:0E:7	C:2A:FF:7	'D			192.1	168.1.101	
nit Status:															
Temp	E/	AS CH1	CH2	CH3	CH4	OUT	RF Loop		Res	olution/Framerate			Vers	ion Info	
NORMAL	0	FF LOCK	LOCK	n/a	n/a	NORMAL	ON			C1 10801/60 C2 1080P/60			Hardware Software Boot - 1 O.S 1 User Interfac	- 1.01.00002 - 1.04.00265 1.00.00002 1.10.00016 ce - 1.10.00012	
put Configur	ration:						10.11		000			1.5.0.1.			01
inabled Vid	seo Input	Video Codec	Encoding		eo bitrate (Mbp	s) Max Out;	put Resolution	Aspect Ratio	GOP	Audio Inpu		Audio Codec	Audio bitrate (kops)	Audio Level	Closed Caption
II V H	DMI 👻	H264 AUTO(4.0) •	Field	•	18,00	AUT	го 🔻	PASS V	15 -	HDMI 48 kHz	-	DOLBY V	384 👻	14 💌	
ansport Con	figuration:		Tranc		18,00	AUI	го •	PASS *	15 •	OPTICAL	•	DOLBT	384 •	14 .	
ansport Con	figuration:	IN SID	OUT Nar	me	18,00	AUI Table Type	ro •	PASS	15 ¥	or CH. #	T	S ID	Video PID	Audio PID	OUT SID
ansport Con IN Name n/a	figuration:	IN SID n/a	OUT Nar	TSC1	18,00	Table Type	Najo	PASS •	15 ¥ Min	or CH. #	T	S ID	Video PID	Audio PID	OUT SID
IN Name n/a n/a	figuration:	IN SID n/a n/a	OUT Nar C1 A1 C2 A1	me FSC1 FSC2	18,00	Table Type	Najo	PASS •	15 • Min [OPTICAL or CH. #	T	S ID	Video PID	Audio PID 1002 2002	OUT SID
IN Name n/a n/a Beauty	figuration:	IN SID n/a 54	OUT Nar C1 A1 C2 A1 IP2.2 Be	me FSC1 FSC2	18,00	Table Type CVCT 2 • CVCT 2 •	Majo	PASS •	15 • Min [or CH. #	T	S ID	Video PID	Audio PID 1002 2002 auto	OUT SID
ansport Com IN Name n/a n/a Beauty Comed	figuration:	IN SID n/a n/a 54 60	OUT Nar C1 AT C2 AT IP2.2 Be IP2.3 Co	me TSC1 TSC2 medy	18,00	Table Type CVCT 2 CVC	Majo	PASS •	15 • Min [[or CH. #	т: 	S ID	Video PID . 1001 2001 auto auto	Audio PID 1002 2002 auto auto	OUT SID 1 2 3 4
IN Name n/a n/a Beauty Comed NICKEL	figuration:	IN SID n/a n/a 54 60 61	OUT Nar C1 A1 C2 A1 IP2.2 Be IP2.3 Cor IP2.4 NK	rsc1 rsc2 eauty medy XELO	18,00	Table Type CVCT 2 • CVCT 2 • CVCT 2 • CVCT 2 • CVCT 2 • CVCT 2 •		PASS •	Min ((((or CH. #	T	s ID	Video PID . 1001 2001 auto auto auto	Audio PID 1002 2002 auto auto auto auto	OUT SID 1 2 3 4 5
IN Name n/a n/a Beauty Comed NICKEL	figuration:	IN SID n/a n/a 54 60 61	OUT Nar C1 A1 C2 A1 IP2.2 Be IP2.3 Co IP2.4 NK	me TSC1 TSC2 auty medy XKELO	18,00	Autorstand	Maji	PASS	Min [[[[[or CH. #	т:	S ID	Video PID . 1001 2001 auto auto auto	Audio PID 1002 2002 auto auto auto	UT SID
ansport Con IN Name n/a n/a Beauty Comed NICKEL atput Configu	figuration: uration:	IN SID n/a n/a 54 60 61	OUT Nar C1 A1 C2 A1 IP2.2 Be IP2.3 Co IP2.4 NK	TISC1 TSC2 Rauty medy CKELO	18,00	Autorstand		PASS	Min [[[or CH. #	T:	s ID	Video PID 1001 2001 auto auto auto	Audio PID 1002 2002 auto auto auto	OUT SID 1 2 3 4 5
ansport Com IN Name n/a Na Beauty Comed NICKEL utput Configu	figuration: uration: Table	IN SID n/a n/a 54 60 61	OUT Nar C1 AT C2 AT IP2.2 Be IP2.3 Co IP2.4 NK Channel	me rsc1 rsc2 auty medy CKELO	Level	Autorial Table Type	Maje	PASS	Min (((or CH. # 1 2 3 4 5 Baudrate (T: (Mbaud)	s ID	2011 Video PID	Audio PID 1002 2002 auto auto auto	OUT SID
ansport Coni IN Name n/a Na Beauty Comed NICKEL stput Configu	figuration: uration: Table CATV	IN SID n/a 54 60 61	OUT Nar C1 AT C2 AT IP2.2 Be IP2.3 Co IP2.4 NK Channel Z	me TSC1 TSC2 auty medy CKELO	Lavel	Autors Table Type CVCT 2 • CVCT 2		PASS • r CH. # 2 2 2 1nterleaving 1128_J1 •	Min [or CH. # 1 2 3 4 5 Baudrate 5,38	(Mbaud)	s ID	Video PID 1001 2000 auto auto auto Dutput NORMAL	Audio PID 1002 2002 auto auto auto	OUT SID
ansport Con IN Name n/a Beauty Comed NICKEL stput Configu	figuration: uration: Table CATV	IN SID n/a 54 60 61	OUT Nat C1 AT C2 AT P2.2 Be P2.3 Co P2.4 NK Channel 2	me rsc1 rsc2 rsc2 medy cxELO	Level	Table Type CVCT 2 •		PASS •	15 •	0011CAL 01 CH. # 1 2 3 4 5 Baudrate 5,34	(Mbaud)	1	Video PID 1001 2001 auto auto auto Buto Output	Audio PID 1002 2002 auto auto auto	UT SID

Fig. 15 - Advanced configuration

Menu flow chart

For programming Unit operation



A B C

Televes

IP menu

For programming Unit operation



Technical specifications

Reference				563805
	VIDEO	Connectors		2 sets - 3x RCA for Video (Y, Pb, Pr)
				2 sets - 2x BCA for Analog Audio (L_B)
		Commentant		
	AUDIO	Connectors		2 sets - 1X RCA for Digital Audio
				2 sets - 1x Toslink for Digital Audio (Optical)
	VIDEO + AUDIO	Connectors		2 sets - 1xHDMI®
INPUTS	CLOSED CAPTIONING	Connectors		2 sets - 1x RCA (CC in)
		Connectors		1x BNC
	ASI	Format		DVB-ASI
	1.01	Standard		wETCLEN 50083-0
		Compositore		2: DIAG (Guidadh Girachid)
	IP	Connectors		
		Formats		SPIS OF MPIS (UDP/RIP)
		Output Format		MPEG-2 / H.264(4.0, 4.1, 4.2, 5.1, 5.2) ⁽¹⁾
		Input Possilution		480i, 480p, 576i, 576p, 720p, 1080i &1080p ⁽²⁾
		Input Resolution		Supports auto-scan for input resolution
		Input Framerate		50Hz, 60Hz (all input Resolutions), 24Hz (only 1080p Input Resolution)
	VIDEO	Output Resolution		Same as input (Auto) or maximum selected output resolution
		Output Aspect Ratio		4:3. 16:9. and pass through
ENCODING		Output GOP		10, 12, 15, 16, 18, 20, 24 or 30
PROFILE		Output Transport rate		Variable
		Output Video bit rate		Variable
		Output format		Dolby [®] Digital AC-3 or MPEG1 Layer 2
	AUDIO	Output Sampling rate	kHz	48.44.1
		Output bitrate		Variable
	CLOSED CAPTIONING	Format		EIA-608, EIA-708 ⁽³⁾
		-		
		Connectors		1x "F" Female
		Modulation standards		110-A: 16, 32, 64, 128, 256, 512, 1024 QAM
				IIU-B: 64, 256 QAM
		Frecuency Range	MHz	5 - 1002 (supports return path applications)
		Channel plans	dBm//	CAIV SID, I_CHANNELS, Broadcast, Frequency
	QAM	Max output level	UDITIV	+30 (+40 with loop-through)
		MER	dB	>40 (typ)
OUTPUT		Spurious	aBC	-60
		Impedance	Ω	75
		I/Q Phase Error	0	<1
		I/Q Amplitude Imbalance	%	<1
	ACI	Connectors		1x BNC
	AJI	Format		DVB-ASI
	ID	Connectors		2x RJ45 (Switch Gigabit)
	П	Format		SPTS or MPTS (UDP/RTP)
		Transport Stream ID		Editable
		Original Network ID		Editable
		Network ID		Editable
		Virtual Channel Number		Editable
PSLE	PARAMETERS	NIT Version		Manual / Automatic
	,	SDT Version		Manual / Automatic
		Network Name		Editable
		Service PID		Editable
		Service Name		Editable
		Service ID		Editable
		Local control		Full configuration with LCD handheld programmer
				LOOP status LED
				QAM status LED
		Local monitoring		TEMP status LED
MONITO	RING / CONTROL	<u> </u>		CH1/CH2 status LEDs
				wEthernet status LEDs
		Remote monitoring		Centralized web based remote control management alarms and software upgrades
		Control		Deine shein internet of the sector to the
		Control		
		Power supply	V	24
	GENERAL	Power disipation	W	<22.8
		Operating Temperature	°F/°C	32 to 95 / 0 to 35
				• • • • • •

The technical specifications are defined for an ambient temperature of 35 °C (95 °F). It shall always be installed with forced ventilation.

(1) The reference 563805 is intended to be used to feed several receivers utilizing only an HDMI source. The output quality of the image cannot be considered analogous as that of the original HDMI source.

(2) 1080p resolution is only supported with MPEG-4 video codec.

(3) For correct CC operation at the output, the maximum output resolution is set to "Auto" or the input and output resolution are both "i" or both "p" at the same framerate.

ENCODER DISCLAIMER

1. TELEVÉS states that the following references:

563803, 563805, 56380501, 56380502, 56380503, 56380504, 56380505, 56380506, 56380507, 56380508, 56380509, 56380510, 563831, 563832, 563833, 563852, 566001, 585301, 585401, hereinafter referred as <u>"Encoder Equipment" or products.</u>

have as sole purpose to provide a technical solution to the need to transfer audiovisual content, originally generated in a device provided with an HDMI[®] interface, to one or more receivers located at distances greater than 100 linear meters within a room or building. According to the currently available technology, it is not possible to conduct the HDMI[®] signal at that distance or greater to a multiplicity of receivers, except through a complex and commercially non-viable network deployment, which in no case could ensure the protection of the original audio visual content.

2. TELEVÉS, as the holder of an HDCP license, is not entitled to include in a product such as the aforementioned Encoder Equipment any interface, switch, plug, conductor, button, push-button or other equivalent software solution that allows the output of said content device HDCP decrypted in any analogous form.

3. In order, a) to comply with the license, and b) at the same time provide the purchaser of the product with a technical, legal and feasible solution for the transfer to a multiplicity of receivers at distances greater than 100 linear meters from the audiovisual signal transmitted with HDMI® interface and HDCP encryption, the Encoder Equipments do not allow the output of decrypted audiovisual content in a representation analogous to the HDMI format, but instead compresses the content of the audiovisual signal, converting it into MPEG format. This compressed format allows the transfer of the signal through the use of coaxial cables and its reception through the use of DVB-T / DVB-C / ISDB-T or similar analog tuning interfaces.

4. The user of the products may use the compressed audiovisual format, not analogous to the original HDMI content, in which any of the references cited as Encoders emits its output signal, solely and exclusively for the purpose and conditions defined as follows:

1st) In order to transfer the signal to content displays (monitors, televisions, projectors) located more than 100 linear meters from the one receiving the HDMI[®] signal with the HDCP encrypted content.

2°) Provided that the devices that allow the user to view content to which the signal is directed within the premises or building (monitors, televisions, projectors) allow normal viewing of HDMI[®] content while keeping HDCP encryption.

5. Any other use other than that defined in the previous paragraph is expressly prohibited. In particular, the user may not:

a) Reproduce the signal on content viewers not authorized to reproduce HDMI content while maintaining HDCP encryption; nor,

b) Carry out conducts or operations aimed at copying, manipulating or transforming, in whole or in part, the audiovisual signal emitted by the products listed in section 1.

6. The user will be solely responsible in the event of improper use of any of the Encoder Equipments or of the audiovisual signal emitted by them. The user will indemnify and hold TELEVÉS harmless, to the maximum extent permitted by applicable law, against any claim, action or claim, judicial or extrajudicial, from third parties, holders of intellectual or industrial property rights, derived from prohibited actions of in accordance with the previous provisions.

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