Manuals+ — User Manuals Simplified.

Televes 563832 Encoder Digital Transmodulator 2e Hdmi Installation Guide

Contents

Televes 563832 Encoder Digital Transmodulator 2e Hdmi

Important 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, such as power-supply cord or plug is damaged, 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

- Reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 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

- The ambient temperature should not be higher than 45°C.
- 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.
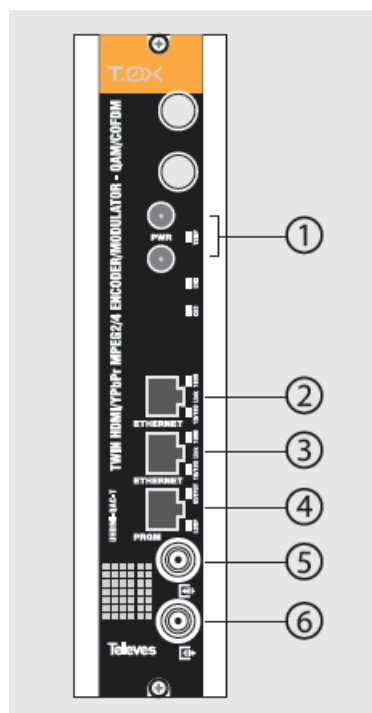
Symbology

Equipment designed for indoor use.
The equipment complies with the CE mark requirements.

Click on the "LICENSES" option in the menu bar to get the Licence agreement and Third-parties Software declaration. Also available in: **https://doc.televes.com**

Description of connectors

Front view

1. Power connectors

   Conectores alimentación
2. Ethernet connector

Connector Ethernet

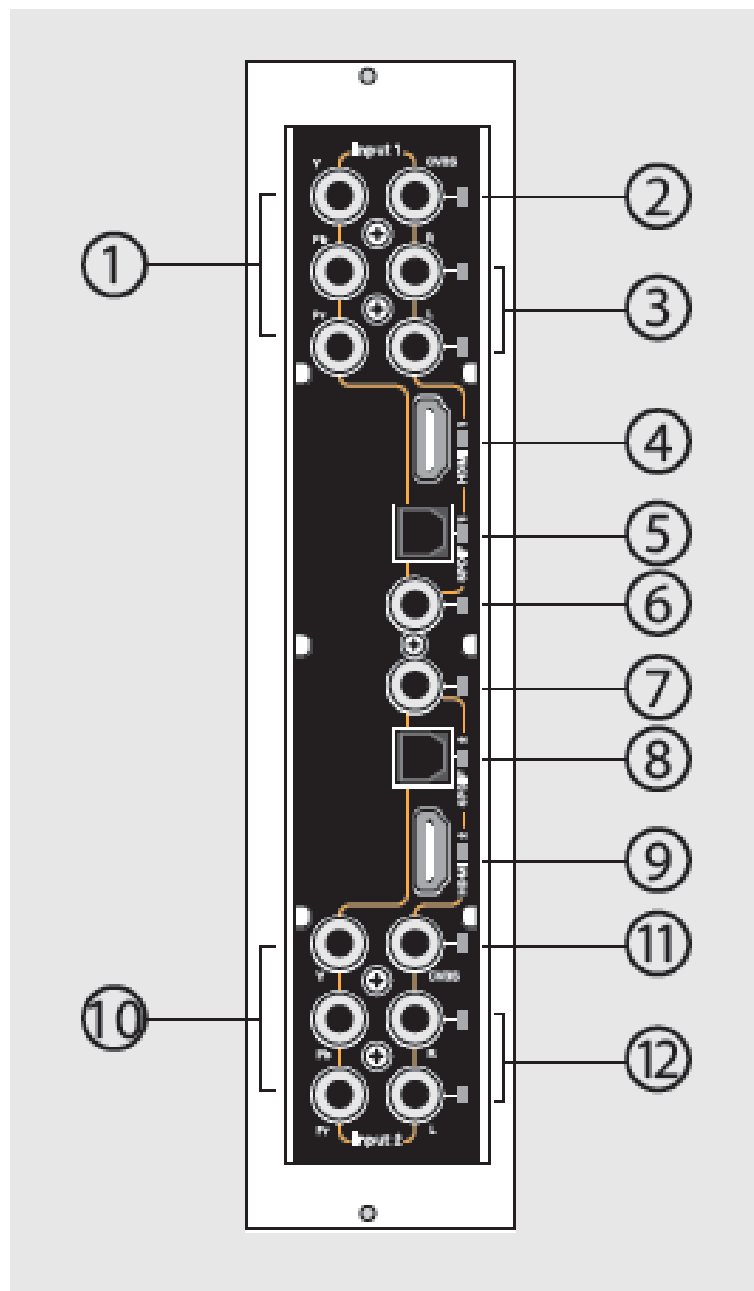3. Ethernet connector

   Connect Ethernet

4. Programmer connector

   Connector Programador

5. RF loop through the input

   Entrada Lazo RF

6. RF output Salida RF

Rear view

1. YPbPr component input. Channel 1

   Entrada por Componentes YPbPr. Canal 1

2. CVBS input. Channel 1

   Entrada CVBS. Canal 1

3. Analog (L/R) audio input. Channel 1

   Entrada audio analógica (L/R). Canal 1

4. HDMI input. Channel 1

   Entrada HDMI. Canal 1

5. SPDIF digital optical audio input. Channel 1

   Entrada audio digital óptica SPDIF. Canal 1

6. SPDIF digital coaxial audio input. Channel 1

   Entrada audio digital coaxial SPDIF. Canal 1

7. SPDIF digital coaxial audio input. Channel 2

   Entrada audio digital coaxial SPDIF. Canal 2

8. SPDIF digital optical audio input. Channel 2

   Entrada audio digital óptica SPDIF. Canal 2

9. HDMI input. Channel 2

   Entrada HDMI. Canal 2

10. YPbPr component input. Channel 2

    Entrada por Componentes YPbPr. Canal 2

11. CVBS input. Channel 2

    Entrada CVBS. Canal 2

12. Analog (L/R) audio input. Channel 2

LED indicators

		Color	Internal temp Temperatura interna	Comment Situación
	TEMP	Solid green Verde, fijo	Normal	Safe Seguro
		Slow blink orange Naranja, parpadeo lento	High Alta	Warning * Atención
		Fast blink red Rojo, parpadeo rápido	Very High Muy Alta	Danger Peligro
		Color	Channel status Estado del canal	Comment Situación

Front LED alarms *Alarmas (LEDs) panel frontal*	CH1 – CH2	Off Apagado	Disabled Deshabilitado	Channel disabled. Canales deshabilitados.
		Solid green Verde, fijo	Lock Bloqueado	Input locked and unit encoding audio/video. Entradas enganchadas y unidad codificando audio/video.
		Solid red Rojo, fijo	Unlock Desbloqueado	Input unlocked and unit not encoding audio/video. Entradas desenganchadas y unidad no codificando audio/video.
		Blinking red Rojo, parpadeando	Boot	Unit starting up. Unidad reiniciando.
	OUTPUT	Color	Output mode Modo salida	Comment Situación
		Solid green Verde, fijo	Normal	Output RF channel is ON, broadcasting audio/video (normal mode). Canal RF de salida encendido, transmitiendo audio/video (modo normal).
		Slow blinking green Verde, parpadeo lento	Carrier wave, null, or muted Portadora, nulo o silenciado	Output RF channel is OFF or in an alternate signal mode. Canal RF de salida esta apagado o en un modo de señal alterno.
		Solid orange/red Naranja/rojo, fijo	Normal	Config bitrate doesn´t fit in output El bit rate configurado no cabe en la señal de salida
	LOOP	Color	Output loop status Estado del lazo de salida	Comment Situación
		Solid green Verde, fijo	ON Encendido	Output loop-through enabled. Units may be daisy-chained using the internal combiner. Lazo de salida habilitado. Las unidades se pueden combinar usando el mezclador interno.

		Off	OFF	Output loop-through disabled. Units must be combined using an external combiner.
		Apagado	Apagado	Lazo de salida deshabilitado. Debe usarse un mezclador externo para combinar unidades.
Back LED indicators	A/V inputs	Indicate the currently selected audio and video inputs and where the input signals should be connected.		
LEDs posteriores	Entradas A/V	Indican las entradas de audio y video seleccionadas actualmente y donde se debe conectar la señal de entrada.		

Installation

1. Install all units in the rack and connect them as shown in Figure 1.
2. The audio and video input signals connect to the back of the modules (Figure 2).
3. If a network is available that provides IP addresses through DHCP, connect the encoders to the network as shown in Figure 3. If such a network is not available, then a computer will need to be connected as shown in Figure 4.
4. Power on the units.
5. 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 (Figure 5).
6. Connect the programmer to a unit, usually the first one, and read the IP address (Figure 6).
   Each unit can work as a master controller for the other units. All units can be configured by connecting to only one.
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 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.
     The "Change Password" option only changes the password of the encoder currently logged in to. To change the password for the remaining modules, each one will need to be logged into with its unique IP address and the change made for each.
     Figure 8 shows an example of a detailed status page.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6
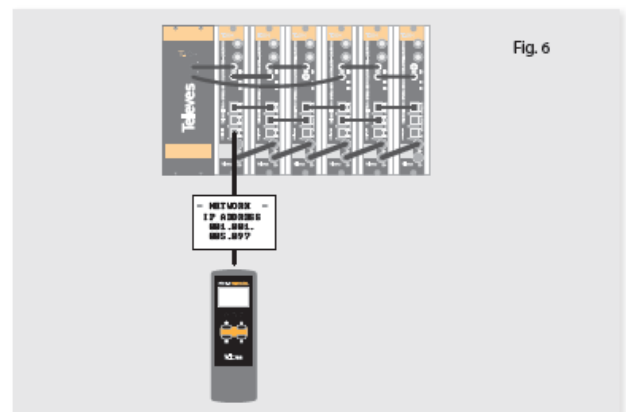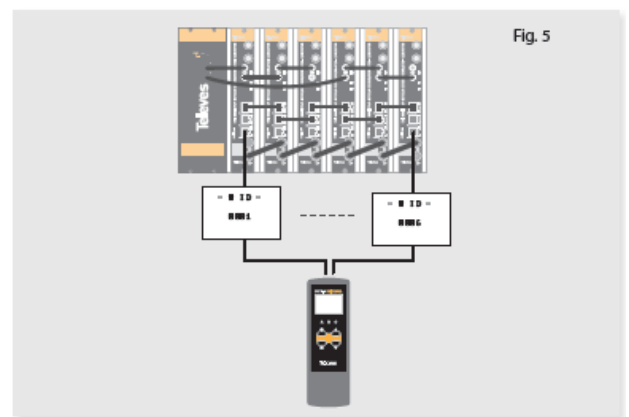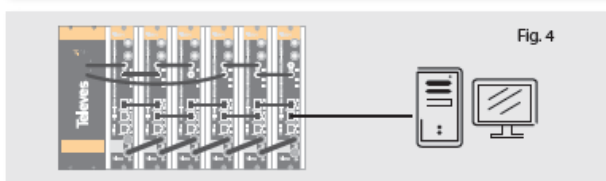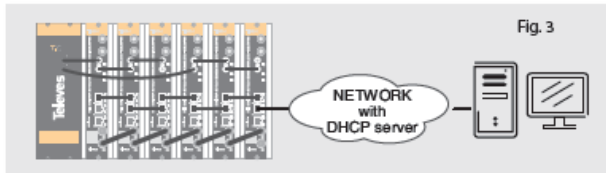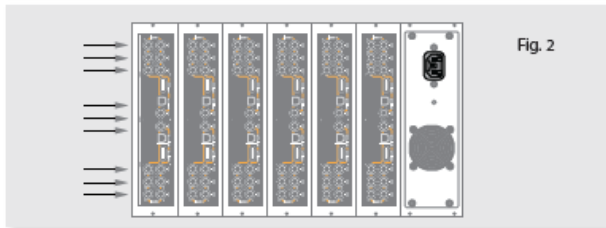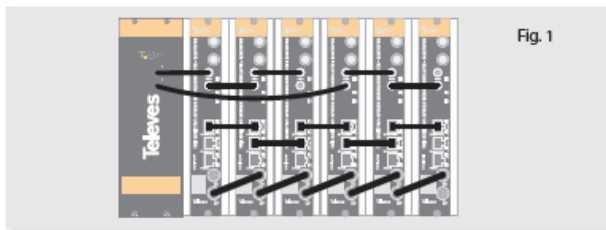
9. Configure all units:

Select "CONFIGURATION". This page has 4 options, INPUT, TRANSPORT, OUTPUT, and NETWORK, shown in Figures 9, 10, 11, and 12 respectively. For each configuration page, the last column is "Select". Any changes made, will be saved only to the units with this associated "Select" box checked when "Apply Selected" is clicked. This applies to all 4 of the sections under the Configuration Menu.

Some items have an automatic configuration option, such as "Automatic channel numbering" shown in figure 10.

The network configuration page allows a change to the Number assigned in Step 5. This option also has an "Auto" assignment feature.

The "Auto" option will ask for confirmation since it will overwrite the settings of all units set in Step 5 and the ordering will likely not be as the units were placed in the rack.

10. Change configuration of one unit:

Select "CONFIGURATION". Click on the Model name of the desired unit and the page below will be shown. From this page you can change any parameter of the configuration of the desired unit.

# ▼	Model ▼	Temp	CH1	CH2	CH3	CH4	OUT	RFLoop	Output Table	Output Channel	Watermarking ID	STATUS
1	563832 - Dual Component/HDMI – web connected	NORMAL	LOCK	LOCK	n/a	n/a	NORMAL	ON	CCIR N.Z.Ind	C21	DISABLED	OK
2	563832 - Dual Component/HDMI	NORMAL	LOCK	LOCK	n/a	n/a	NORMAL	ON	CCIR N.Z.Ind	C22	DISABLED	OK
3	563832 - Dual Component/HDMI	NORMAL	LOCK	LOCK	n/a	n/a	NORMAL	ON	CCIR N.Z.Ind	C23	DISABLED	OK
4	563832 - Dual Component/HDMI	NORMAL	LOCK	LOCK	n/a	n/a	NORMAL	ON	CCIR N.Z.Ind	C24	DISABLED	OK
5	563832 - Dual Component/HDMI	NORMAL	LOCK	LOCK	n/a	n/a	NORMAL	ON	CCIR N.Z.Ind	C25	DISABLED	OK
6	563832 - Dual Component/HDMI	NORMAL	LOCK	LOCK	n/a	n/a	NORMAL	ON	CCIR N.Z.Ind	C26	DISABLED	OK
7	563832 - Dual Component/HDMI	NORMAL	LOCK	LOCK	n/a	n/a	NORMAL	ON	CCIR N.Z.Ind	C27	DISABLED	OK

# ▼	Model ▼	ID ▼	Serial Number	Temp	Resolution/Framerate	Version Info	Upgrade Options
1	563832 - Dual Component/HDMI – web connected	2817968	00000000000001	68ºC 155ºF	C1 720P/50 C2 720P/50	Hardware – 1.01.00006 Software – 1.00.00153 Boot – 1.00.00002 O.S. – 1.01.00014 User Interface – 1.02.00050	DEFAULT (No Upgrades)
2	563832 - Dual Component/HDMI	2817969	00000000000002	70ºC 158ºF	C1 720P/50 C2 720P/50	Hardware – 1.01.00006 Software – 1.00.00153 Boot – 1.00.00002 O.S. – 1.01.00014 User Interface – 1.02.00050	DEFAULT (No Upgrades)
3	563832 - Dual Component/HDMI	2817970	00000000000003	71ºC 159ºF	C1 720P/50 C2 720P/50	Hardware – 1.01.00006 Software – 1.00.00153 Boot – 1.00.00002 O.S. – 1.01.00014 User Interface – 1.02.00050	DEFAULT (No Upgrades)
4	563832 - Dual Component/HDMI	2817971	00000000000004	72ºC 162ºF	C1 720P/50 C2 720P/50	Hardware – 1.01.00006 Software – 1.00.00153 Boot – 1.00.00002 O.S. – 1.01.00014 User Interface – 1.02.00050	DEFAULT (No Upgrades)
5	563832 - Dual Component/HDMI	2817972	00000000000005	72ºC 162ºF	C1 720P/50 C2 720P/50	Hardware – 1.01.00006 Software – 1.00.00153 Boot – 1.00.00002 O.S. – 1.01.00014 User Interface – 1.02.00050	DEFAULT (No Upgrades)
6	563832 - Dual Component/HDMI	2817973	00000000000006	71ºC 159ºF	C1 720P/50 C2 720P/50	Hardware – 1.01.00006 Software – 1.00.00153 Boot – 1.00.00002 O.S. – 1.01.00014 User Interface – 1.02.00050	DEFAULT (No Upgrades)
7	563832 - Dual Component/HDMI	2817974	00000000000007	64ºC 148ºF	C1 720P/50 C2 720P/50	Hardware – 1.01.00006 Software – 1.00.00153 Boot – 1.00.00002 O.S. – 1.01.00014 User Interface – 1.02.00050	DEFAULT (No Upgrades)

Menu flow chart

For programming Unit operation

MAIN **EXTENDED** **MONITORING**

Enable edit mode /
Position cursor
(in edit mode) /
Disable edit mode.

Activar el modo
edición / Posición
del cursor (en modo
edición) / Desactivar
el modo edición.

Change section /
Save parameters
(press and hold
for 3 sec.)

Cambiar sección /
Guardar datos (pulsar
y mantenga pulsado
3 seg.)

Change menu /
Modify value
(in edit mode)

Cambiar menú /
Modificar valores
(en modo edición)

A B C

Technical specifications

Reference			563832	
INPUTS	VIDEO	Connectors	2 sets – 3x RCA for Video (Y, Pb, Pr)	
			2 sets – 1x RCA for CVBS Video	
	AUDIO	Connectors	2 sets – 2x RCA for Analog Audio (L, R)	
			2 sets – 1x RCA for Digital Audio	
			2 sets – 1x Toslink for Digital Audio (Optical)	
	VIDEO + AUDIO	Connectors	2 sets – 1x HDMI	
	QAM	Connectors	"F" Female (loop-through combiner input)	

OUTPUT	RF	Connectors		1x "F" Female
		Frequency Range	MHz	46 … 862
		Max output level	dBµV	+110 (+100 with loop-through)
		Output Attenuator		
		MER	dB	>40 (typ)
		Spurious	dBc	-60
		Impedance	Ω	75
		I/Q Phase Error	º	<1
		I/Q Amplitude Imbalance	%	<1
	QAM	Modulation format		16, 32, 64, 128, 256
		BaudRate	Mbaud	6,9
		Roll-off	%	15
		Code		Reed Solomon
		Spectrum Mode		Normal / Inverted
		Frequency Step	KHz	250
	COFDM	Modulation format		QPSK, 16QAM, 64QAM
		Guard Interval		1/4, 1/8, 1/16, 1/32
		FEC		1/2, 2/3, 3/4, 5/6, 7/8
		Bandwidth	MHz	6, 7, 8
		Cell_id		Editable
		Frequency Step	KHz	125 / 166

	Transport Stream ID	Editable
	Original Network ID	Editable
	Network ID	Editable
	Logical Channel Number	Editable
	NIT Version	Manual / Automatic
	SDT Version	Manual / Automatic
	Type LCN	Generic / UK / NorDig V1 / NorDig V2
PSI PARAMETERS	Network Name	Editable
	Service PID	Editable
	Service Name	Editable
	Service ID	Editable

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 "Encoder Equipment" or products.
   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 audiovisual 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 an 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 Equipment 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:

   1. 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.

www.televes.com

Documents / Resources

Televes logo image	**Televes 563832 Encoder Digital Transmodulator 2e Hdmi** [pdf] Installation Guide 563832, Encoder Digital Transmodulator 2e Hdmi

References

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- **T** **Buscador de declaraciones de conformidad | Televés**