

# TH-1 "Talking Head" Codec for ISDN & Inmarsat<sup>SM</sup>



## Live video & audio contribution on demand via ISDN & Inmarsat satellite services

The 7E 'Talking Head' series video reporter units are rugged, portable and suitable for location work anywhere in the world where there is an ISDN line or a suitable Inmarsat terminal. Housed in a waterproof case and using tried and tested technology, the unit can be used in the harshest of environments with complete confidence.

Simplicity and flexibility of operation for the lone reporter has been the keyword in the product's development, resulting in a minimum of complex controls. The unit can be powered from the local mains source (90-264VAC), or a nominal 12V DC source, such as a BP-90A camera battery.

Excellent picture quality at 64/128kbps is assured by the use of the latest H.263 compression algorithms, or if desired high quality (7.5kHz) audio and low speed pictures can be transmitted instead.

A simple mixing facility on the unit enables low-Z microphones and balanced or an unbalanced line sources to be connected simultaneously. A custom designed I/O processor optimises the audio/video for transmission, whilst providing both professional (XLR/BNC) and domestic (phono) connections. Headphone jack sockets provide both direct and cue (return) signals for monitoring purposes.

An adjustable 6.4" TFT Colour display with speaker completes the package.

Storage for cables, microphone, headphones is provided within the case so that the unit is totally self-contained.

### Specification

#### Video

ITU-T H.320, H.261 and H.263  
CIF resolution (352 x 288 pixels) at up to 15 fps  
QCIF resolution (176 x 144 pixels) at up to 30 fps  
Input: Composite, 75Ω BNC/Phono (PAL or NTSC)  
Output: Composite 75Ω BNC (PAL or NTSC)  
Display: 6.4" TFT Camera: Single Chip (optional)

#### Audio

ITU-T G.728 AND G.722 Full duplex with echo cancellation  
Line audio inputs (2) XLR & Phono  
Microphone input (1) XLR

**Data** RS-232 async. with T.120 to special order

#### Network

ISDN Basic Rate (2B+D)  
Euro-ISDN Interface compatible with Inmarsat-M4 & 7E SODA  
10 number memory, Speed-dial, Last number redial

#### Physical

Dimensions: 356mm x 265mm x 155mm approx. (W x D x H)  
Weight: 4 kg  
Power: 90-264V AC; 50-60Hz or 12V DC, with stand-by mode  
Operating temperature: 0 to 40°C ambient  
Non-operating temperature: -10 to 60°C  
Operating humidity: 20% - 90% (non-condensing)  
Non-operating humidity: 10% - 95% (non-condensing)

Specification subject to change without notice  
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#### New Address

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## "TALKING HEAD" (TH-1) SPECIFICATION

<b>Codec</b>	ITU-T H.320 video conferencing incorporating H.261 & H.263 video coding G.711, G.722 & G.728 audio coding T.120 data exchange (requires optional data connector)		
<b>Inputs</b>	Microphone	Lo-Z, dynamic balanced input	3 pin XLR socket
	Line 1	Hi-Z, balanced input	3 pin XLR socket
	Line 2	Hi-Z, unbalanced input	Phono skt.
	Video	75Ω, 1V p-p, (NTSC or PAL)	BNC socket Phono socket
	Power	see below	4 pin XLR plug (1 & 4) 2.1mm Coaxial
<b>Outputs</b>	Video	75Ω, 1V p-p (NTSC or PAL)	BNC socket
	Headphone direct & return mixed		Stereo 1/4in. Jack socket (A or B style)
	Headphone direct (L) and return (R)		Stereo 1/4in. Jack socket (A or B style)
<b>ISDN</b>	Euro-ISDN, 64/128kbps with MSN support North American (NI2, DMS100 & AT&T) S0, 56/112kbps with SPID support Flying lead with RJ-45 plug - 5m in length		
<b>Controls</b>	Power, rocker switch		
	Mic. Level		Rotary potentiometer
	Line 1 level		Rotary potentiometer
	Line 2 level		Rotary potentiometer
	Headphone Direct Monitor level		Rotary potentiometer
	Headphone Return (cue) Monitor level		Rotary potentiometer
	Mic. presence frequency		3-way toggle switch 1.7kHz/Flat/2.7kHz
	Mic. presence boost/cut		Rotary potentiometer -12dB to +12dB
	Mic. LF cut		3-way toggle switch 400Hz -12dB/octave Flat 800Hz -12dB/octave
<b>Indicators</b>	On/Off LED and video status indicator (red/green LED) PPM (10 LED display -20 to +3dB)		
<b>Display</b>	6.4" LCD with loudspeaker, volume and brightness control		
<b>Power</b>	DC, 10.8-14.4V, 20W (9-25V without display, which is a 12V nominal device) AC adapter 12V @ 3A, Input 90-264VAC / 47-400Hz (supplied) Remote control requires 2x AA battery		
<b>Accessories</b>	12V vehicle cigar lighter adapter (supplied)		
<b>Options</b>	S-video (Y/C) input/output Internal camera Battery & charger		
<b>Physical Spec.</b>	Housed in black plastic, waterproof, carry case with handle Height:155mm, Width: 356mm, Depth: 265mm, Weight - 4.5 kg excl. battery		