

**H.264
BGAN ready
Upgrade from TH-1/2**

TH-4 "Talking Head" Video Reporter systems for ISDN, IP & InmarsatSM



**ISDN to 384/512kbps
IP to 768/2048kbps
H.264
AAC-LD
AES/DES**

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

Envisaged originally as a replacement for the "stock shot" & telephone call in news bulletins, hence "Talking Head", the 7E TH-1 Video Reporter quickly found applications from the live coverage of the US "spy" plane incident in China, to reverse video during a lottery show. The introduction of the TH-2 with integral SODA duo to support two Inmarsat GAN terminals for 128kbps connectivity, further enhanced the systems capability. The 2001 Afghan conflict secured the "Talking Head" series numerous awards and a place in media history. 7E did not stop working on the family, introducing the IP enabled TH-3 in 2003. Today the TH-4 adds the latest H.264 compression and IP connectivity up to 768kbps (or 2Mbps) in a unit that still weighs under 5kgs and the TH-4 is upgradeable from your original TH-1 or TH-2.

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, Internet connection or a suitable Inmarsat terminal(s). 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 broadcast camera battery.

Excellent picture quality from as low as 56kbps is assured by the use of the latest H.264 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 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.

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

TH-4 "Talking Head" Video Reporter



TH-1 "Talking Head" optimised for 64kbps use via Inmarsat or 64/128kbps via ISDN



TH-2 "Talking Head" supports two Inmarsat GAN terminals for 128kbps operation in addition to all the normal TH-1 features



TH-R rackmount for central site operation



TH-BU basic codec for video conferencing



TH-3/IP "Talking Head" for IP based Networks

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"TALKING HEAD" (TH-4) SPECIFICATION

Codec	ITU-T H.320 & H.323 video conferencing incorporating H.261, H.263, H.263+ & H.264 video coding PAL: CIF (352 x 288 pixels), QCIF (176 x 144 pixels) and 4CIF resolution (704 x 576 pixels) @15fps or 30fps (above 168kbps) NTSC: SIF (352 x 240 pixels), 4SIF (704 x 480 pixels) G.711, G.722, G.722.1, G.728 & AAC-LD duplex audio AES & DES Encryption		
Inputs	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 socket
	Video 1	75W, 1V p-p, composite PAL/NTSC	BNC & Phono
sockets	Video 2	<i>Selection of I/O connector to video port is made via internal jumper</i>	
	Power (see below)		4 pin XLR plug (1 & 4) 5.5/2.1mm Coaxial
Outputs	Video	75W, 1V p-p, composite PAL/NTSC	BNC socket
socket	Headphone/1	Program & return mixed	Stereo ¼" Jack
socket	Headphone/2	Program(L) and return (R)	Stereo ¼" Jack
	<i>Jack sockets accept A or B style jacks</i>		
Network	ISDN BRI, S interface, 56 to 384kbps (512kbps optional) compatible with Inmarsat-M4 & 7E S0DA Internet Protocol 10/100Mbit LAN, bandwidth 768kbps (2Mbps optional) compatible with Inmarsat BGAN RJ-45 sockets, 10 number memory, Speed-dial, Last number redial		
Controls	Power		Minature rocker switch
	Mic. Level		Rotary
	Line 1 & 2 level		Rotary
	Headphone/1 - Mixer level		Rotary
	Headphone/2 - Return (cue) level		Rotary
	Mic. presence	1.7kHz, Flat or 2.7kHz -12dB to +12dB	3-way toggle switch Rotary
	Mic. LF cut	400Hz -12dB/octave, Flat or 800Hz -12dB/octave	3-way toggle switch
Indicators	On/Off LED and video status indicator (red/green LED) PPM (10 LED display -20 to +3dB)		
Display	7.0" Widescreen TFT backlit LCD (PAL/NTSC) with loudspeaker, volume and brightness controls		
Power	10-22VDC, 20W with standby (High Voltage option 9-30V)		
Accessories	Supplied		
	AC adapter 12V @ 3A, Input 90-264VAC, 47-400Hz Remote control requires 2x AAA battery (1 set) 12V vehicle cigar lighter adapter ISDN cables RJ-45 plug to RJ45 plug, 3m in length		
	Optional		
	IP Bandwidth to 2Mbps ISDN to 512kbps (4 x BRI) Wireless LAN Integral support for Sennheiser wireless monitors and mics S-video (Y/C) input/output Internal camera or 2nd Video input 9-30V DC input Adaptors for NP-1, PAG, Anton-Bauer & ID-X batteries Battery & charger		
Physical Spec.	Housed in black plastic, waterproof, briefcase with optional shoulder strap Height: 119mm, Width: 494mm, Depth: 354mm Weight: 4.5 kg excluding battery Temperature operating: 0 to 40°C ambient, non-operating : -10 to 60°C Humidity operating: 20% - 90% (non-condensing), Non-operating: 10% - 95% (non-condensing)		

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