

# Thrane & Thrane

**TT-3080A Capsat® Messenger  
Accredited Solution**

**Global Communications Solutions inc.  
GCS-7520 Talking Head**

This document describes how to connect the GCS-7520 "Talking Head" to the Capsat® Messenger.



## **Description:**

The GCS-7520 VideoPhone is a rugged, portable video conferencing terminal suitable for work anywhere in the world where an ISDN line or Capsat® Messenger is available. Housed in a waterproof case and using tried and tested technology, the unit is primarily designed for the field broadcast reporter and 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 50/60Hz, 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 unbalanced line sources to be connected simultaneously. A custom designed I/O processor optimizes the audio/video for transmission, while 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 Color display with built-in speaker completes the package. Storage for cables, microphone, and headphones is provided within the case so that the unit is totally self-contained in a single case.

## **Model Number**

GCS-7520 "Talking Head"

## **References**

<http://www.globalcoms.com/>

## **Applications**

- Electronic/Satellite News Gathering
- Government or military Field communications
  - Deployable emergency response video communications
  - Temporary video communications from industrial sites (Eg: mining, construction, and energy)
  - Distance learning and Telemedicine applications
  - Exploration/research

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## Options:

- GCS-7507 M4/ISDN Line splitter
- GCS-7251 ISDN NT1 interface device
- RS-232 interface
- GCS-7520-02 Terminal for full ISDN BRI compatibility

Global Communications Solutions is a full service provider of satellite, wireless and terrestrial communications solutions. We offer a wide range of solutions involving multimedia communications including portable, desktop and enterprise video conferencing solutions. Contact us for assistance with any of your remote communications or video transmission needs or see our web site at [www.globalcoms.com](http://www.globalcoms.com).

## Instructions

Plug one or two Capsat® Messengers into the respective RJ45 ports of GCS's VTC unit. Dial a 64Kbps or 128Kbps (2 x 64Kbps) VTC call.

## Technical Specification

### Video Codec:

ITU-T H.320 video conferencing incorporating H.261 & H.263 video coding  
G.711, G.722 and G.728 audio coding  
T.120 data exchange (requires optional data connector)

### Inputs:

Microphone -L0-  
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 -75ohm,  
1V p-p, (NTSC or PAL) BNC socket  
Phono socket  
Power -4  
pin XLR plug (1 & 4)  
2.1mm Coaxial

### Outputs:

75ohm, 1V p-p (NTSC or PAL)  
BNC socket  
Headphone direct & return mixed  
(Stereo ¼ in. Jack socket, A or B style)  
Headphone direct (L) and return (R )  
(Stereo ¼ in. Jack socket, A or B style)

### ISDN:

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

### Environmental:

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)



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**For more info**

7640 OmniTech Place Voice: 716.924.4840

Victor, New York 14564 Fax: 716.924.8332

H.320 Video: 716.742.2174/78

Web site: [www.globalcoms.com](http://www.globalcoms.com) Email: [info@globalcoms.com](mailto:info@globalcoms.com)

Chicago IL: (773) 248-8686

Tampa FL: (813) 908-6700

Specifications subject to change without notice 3-02

**Controls:**

On/Off Power switch

Volume

Brightness

Line 1 level

Line 2 level

Headphone Direct Monitor level

Headphone Return (cue) Monitor level

Mic. presence frequency

Mic. presence boost/cut

Mic. LF cut

**Indicators:**

On/Off LED and video status indicator

PPM (10 LED display)

**Display:**

6.4" LCD

**Power:**

DC, 10.8-14.4V, 20W (9-25V without display)

AC adapter 12V @ 3A, Input 90-264VAC/47-400Hz

Remote control unit requires 2 x AA battery

**Accessories:**

12V vehicle cigar lighter adapter (supplied)

**Physical:**

Housed in black plastic, waterproof, carry case with handle.

**Dimensions:**

H 6.1"(155mm), W 14"(356mm), D 10.4" (265mm)

**Weight:**

12.05lbs/4.5 kg excl. battery

**NOTE: Order a GCS-7520-02 if dual ISDN B-Channel compatibility is required (128kbps throughput).**

