

## VIDEO AND TELEMETRY VIRTUAL CONTROL KEYBOARD

- Microprocessor controlled
- Virtual keyboard with configurable graphic-screen display
- RS485 communication
- Ergonomic design
- Telemetry controlled by joystick



The DCT represents the top of the line keyboard for performance and ergonomic design.

A back-lit graphic display with touch-screen helps the operator during all the control functions. It is possible to customize up to 30 user maps (graphic user interface), associating up to 40 keys (macro-command\*) for each map.

The image at start-up and service pages can be customized as well. An easy PC graphic user interface allows you to design these maps and they can be simply uploaded on the keyboard through RS232 serial connection. The same connection allows the keyboard set-up and firmware update.

If the maps (graphic user interface) are not used, the touch-screen keyboard can be customized using the 35 macro-function keys.

Furthermore the DCT is supplied with 6 languages menu with the possibility of upgrading it up to 12 languages with handling by the programmer.

The microprocessor controlled DCT allows you to interface and control SM42A-82A, SM84A-164A and SM328A matrix.

The operator can set up, through the video menu, the SM42A-82A, SM84A-164A and SM328A matrix.

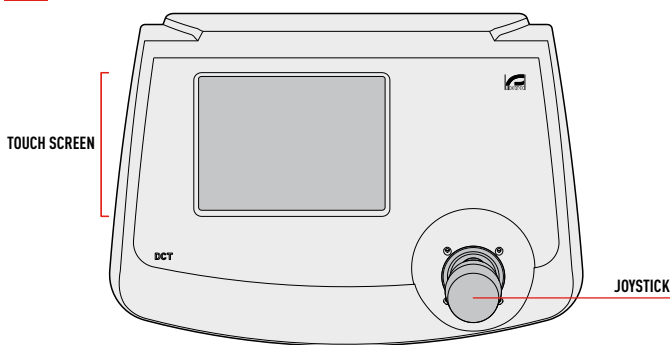
Furthermore, the touch-screen keyboard allows the control up to 10.000 telemetry receivers, the preset and patrol functions together the DTRX3 or DTRXDC receivers. The three axis joystick allows a simple manual control and gives the possibility of controlling variable speed Pan & Tilt, and to interface the most common high speed domes.

The management of every controlled device, from matrix to mux and DVR, from telemetry receivers to speed domes, is far easier because only the existing device functions are enabled.

Three serial RS485 communication lines: one to the video matrix or multiplexer/DVR, two for the management of two independent telemetry lines.

\* more functions associated to the same key (for example: camera selection and scan command at the position 2).

DCT



### TECHNICAL DATA

#### GENERAL

Joystick for Pan/Tilt/Zoom control  
 Graphic display 320x240 pixel back-lit by white LED  
 Ergonomic design  
 Menu in 6 languages (Italian, English, French and German, Spanish and Dutch) expandable to 12 (management by the programmer)  
 Three password levels: connection, set-up, alarm reset  
 Three passwords for the graphic environment management  
 Customization up to 30 user maps and ability to set-up up to 40 keys (macro-command) for each map  
 35 functions keys (macro-command) freely configurable  
 Up to 10000 cameras, 10.000 (lines A) + 10.000 (lines B) telemetry receivers, 100 monitors  
 Alarm and/or breaks-ins communication buzzer  
 Supplied with instruction manual, wide range power supply, 3 power cables, 6 telephone cables, 6 shunt boxes RJ jack and applications for the management of the keyboard on PC

#### MECHANICAL

Thermo-resistant and shock proof ABS material  
 Dimensions: 298x107x210mm (11.7x4.2x8.2in)  
 3 axis proportional joystick  
 Graphic display dimensions: 115x86mm (4.5x3.4in)  
 3 connectors RJ11  
 Power supply jack connector  
 DB9 connector  
 Configuration Dip-Switch

#### ELECTRICAL

**Power supply**  
 - IN 100-240V AC - OUT 12V DC, 47/63Hz, 1A

#### PROTOCOL

**Video Line**  
 VIDEOTECH (1200, 9600, 19200, 38400 baudrate)  
 MACRO (1200, 9600, 19200, 38400 baudrate)  
**Telemetry Line**  
 VIDEOTECH (1200, 9600, 19200, 38400 baudrate)  
 MACRO (1200, 9600, 19200, 38400 baudrate)  
 PELCO D (2400 baudrate)

#### COMMUNICATIONS

**Three RS485 lines for communication**  
 - one direct line with video matrix and multiplexer/Dvr controllable to a maximum of 1200m (3937ft)  
 - two lines for two independent telemetry daisy chain up 10.000 telemetry receivers for line controllable to a maximum of 1200m (3937ft)  
 Serial connection RS232 to PC for graphic layout creation, keyboard set-up and firmware update controllable to a maximum of 15m (49ft)

#### RELATED PRODUCTS

**SM42A-82A** Matrix 4/8 input and 2 output  
**SM84A-164A** Matrix 8/16 input and 4 output  
**SM328A** Matrix 32 input and 8 output  
**MICRODEC485** Mini telemetry receiver 8 functions, 24V AC  
**DTMRX224** Telemetry receiver 12 functions, 24V AC  
**DTMRX2** Telemetry receiver 12 functions, 230V AC  
**DTRX324** Telemetry receiver 17 functions, 24V AC  
**DTRX3** Telemetry receiver 17 functions, 230V AC  
**DTCOAX** Over the coax board for DTRX3 only trough matrix series SM  
**DTRXDC** Telemetry receiver 13 functions, for PTH355P  
**ULISSE** Positioning Unit  
**MISTRAL** Dome Camera

*Retrofit on discontinued products: contact Videotec for further specifications.*

#### INTERFACE WITH OTHER PRODUCTS

**Multiplexer**  
 ADEMCO AXMD16EX and AXCD16EX  
 ENEO VCMT8009, VCMT80016, VBMT8009, VBMT8016  
 SANYO MPX-CD163P  
 SONY YS-DX516P  
**DVR:**  
 EL.MO D7993-PHMx and D7963-PHCL  
 ENEO DLR-204, DLR-109, DLR-116  
 SAMSUNG SHR-3160P and SHR-4160  
 SANYO DSR3016P and DSR3716P  
 SONY HSR-216P  
**Dome**  
 BOSCH Basic dome series  
 ELBEX EXC8000 (Instant Dome)  
 ELMO D7720B-J1P  
 ERNITEC Saturn  
 HITRON FSTRAX II HID2404SM11P  
 JVC TK-C675E, TK675BE e TK-C676  
 KALATEL Cyberdome e Cyberscout  
 MARK MERCER Quick Switch D150QSPT  
 PANASONIC WV-CS600 and WV-CS850  
 SAMSUNG SCC641P and SCC643P  
 SANYO VCC9300P and VCC9400P  
 SANTEC VDC300ID  
 SENSORMATIC DeltaDome II  
 VCL VC5S-ORBM

**FREEMUX**

The keyboard allows the control of multiplexers, DVR, PC or other devices through the implementation of the proprietor Macro Protocol. The graphic user interface and the control keys can be freely associated by the user/installer. The total number of commands is 128; in the main layout up to 30 command keys can be freely handled.

*Ademco, Bosch, Elbex, Elmo, Eneo, Ernitec, JVC, Kalatel, Mark Mercer, Panasonic, Pelco, Samsung, Sensormatic, Sanyo, VCL, Sony, Hitron are registered trademarks.*

*Because DCT may be interfaced with equipment not manufactured by Videotec, it is possible that the interface protocols have changed or are in a different configuration from earlier tested units from us. Because Videotec recommends a bench test prior to installation, Videotec will not be liable for any installation costs or lost revenues in the event a compatibility problem will occur.*

**ENVIRONMENT**

Indoor

Operating temperature: 0°C / +40°C (+32°F / +104°F)

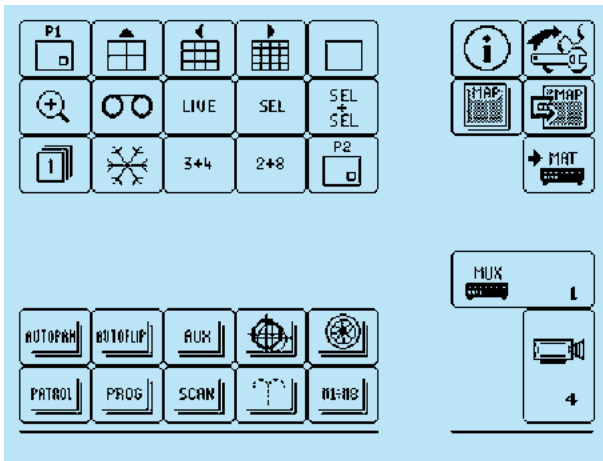
**COMPLIANCE TO**

CE according to EN 61000-6-3, EN 60950, EN 55022 Class B, EN 50130-4

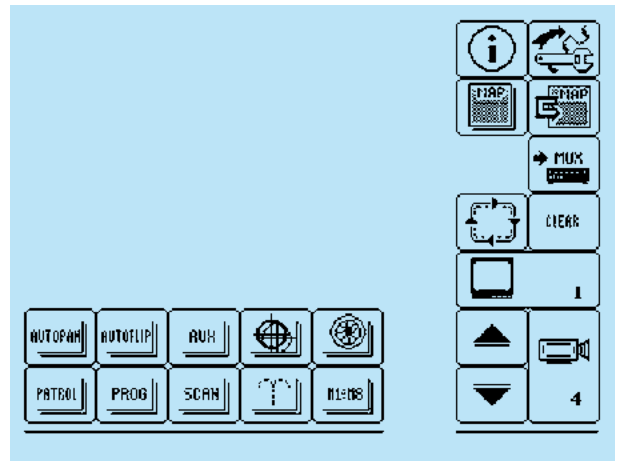
FCC according to Part. 15 Class B

UL listed

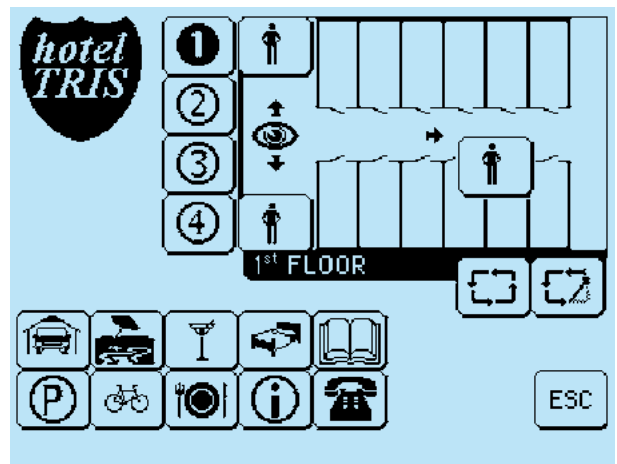
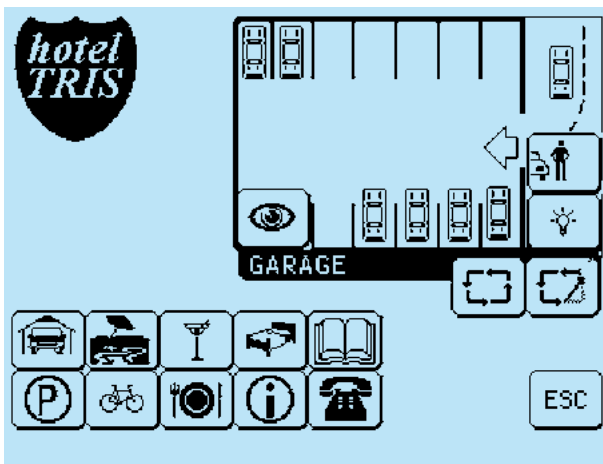
Example of screen layout for multiplexer and telemetry control



Example of screen layout for matrix and telemetry control



Example of screen layout of the graphic interface

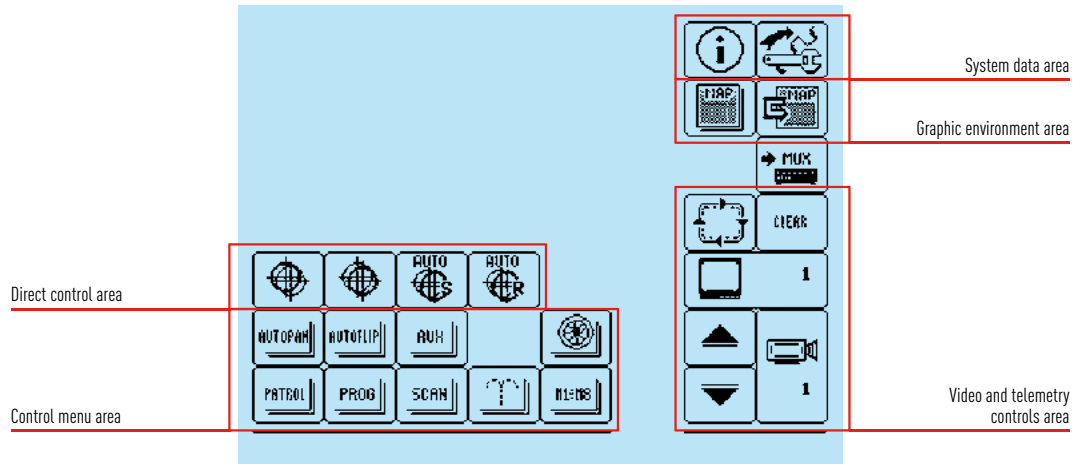


11 CONTROL KEYBOARDS

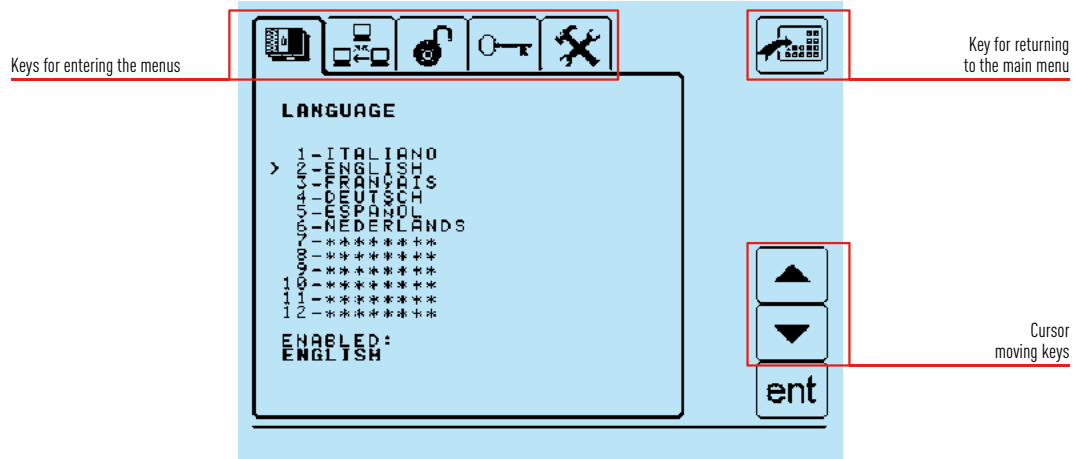
	<b>Unit Weight:</b> DCT 1.1kg / 2.4lb	<b>Package Weight:</b> DCT 3.8kg / 8.4lb	<b>Package Dimensions (BxHxL):</b> DCT 24x14.5x41cm / 9.4x5.7x16in	<b>Master Carton:</b> DCT 4 units
---	--	---	---	--------------------------------------

### KEYBOARD SETUP

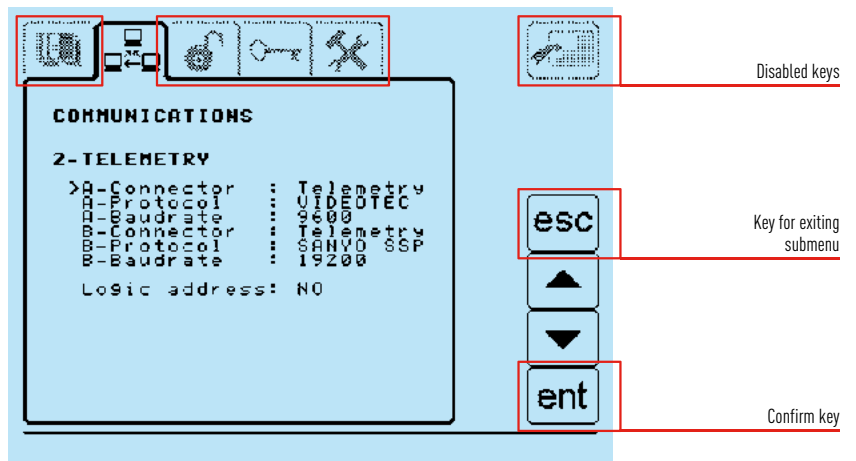
Example: Main menu.  
 It represents only one of the possible system configurations.



Example: Language menu.



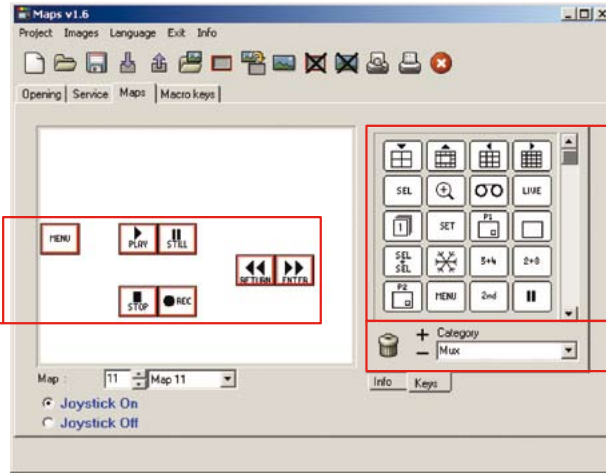
Example: Communication/telemetry submenu.



GRAPHIC USER INTERFACE SETUP FROM PC

The customization of the keyboard is extremely easy due to the PC software. The software allows you to import maps, images, icons libraries and to easily implement the keys. Management up to 30 Graphic User Interface.

Drag and drop imported icons

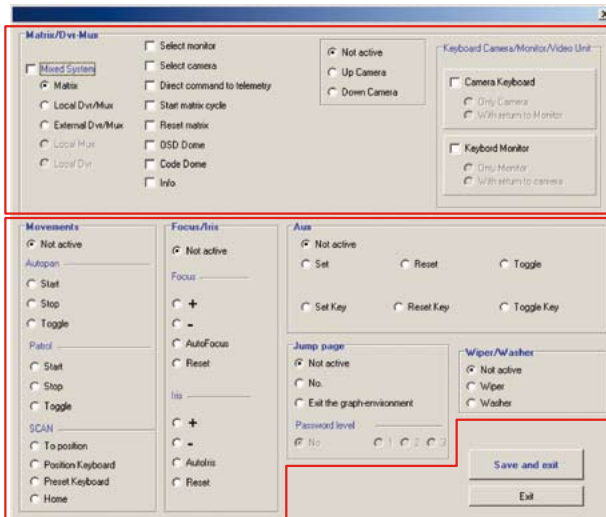


MUX icons library

Selection of libraries

At every key multiple functions can be assigned in order to control video and telemetry devices (even combined).

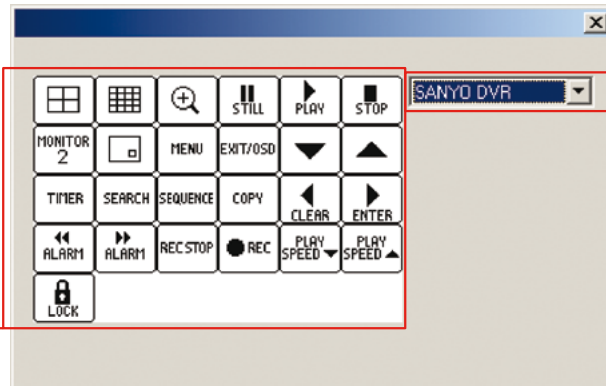
Function to be combined to the key



Video/telemetry serial line commands setup

Specific keys for control of different MUX and DVR's allow you to easily select the required functions. Choosing the device, the available functions will be shown with the graphic format of the device itself.

Specific keys set for every MUX/DVR



Easy video unit selection

