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
VIDEO AND TELEMETRY VIRTUAL CONTROL KEYBOARD

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 connettors 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
VIDEOTEC [1200, 9600, 19200, 38400 baudrate]
MACRO [1200, 9600, 19200, 38400 baudrate]
Telemetry Line
VIDEOTEC [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
MICRODE485 Mini telemetry receiver 8 functions, 24V AC
D7MRX224 Telemetry receiver 12 functions, 24V AC
D7MRX2 Telemetry receiver 12 functions, 230V AC
D7RX324 Telemetry receiver 17 functions, 24V AC
D7RX3 Telemetry receiver 17 functions, 230V AC
D7C0AX Over the coax board for D7RX3 only trough matrix series SM
D7RXDC Telemetry receiver 13 functions, for PTH355P
ULISSE Positioning Unit
MISTRAL Dome Camera

INTERFACE WITH OTHER PRODUCTS
Multiplexer
ADEMCO AXMD16EX and AXCD16EX
ENEV VMCT8009, VMCT80016, VBMT8009, VBMT8016
SANYO MPX-CD163P
SONY YS-DX516P

DVR:
ELMO D7993-PHMX and D7963-PHCL
ENEV DLR-204, DLR-109, DLR-116
SAMSUNG SHR-3160P and SHR-4160
SANYO DSR316P and DSR3716P
SONY HSR-216P

Dome
BOSCH Basic dome series
ELBEX EXC8000 (Instant Dome)
ELMO D7720B-J1P
ERNITEC Saturn
HITRON FASTRAX II HD24045M11P
JVC TK-C675E, TK675BE e TK-C676
KALATEL Cyberdome e Cyberscout
MARK MERCER Quick Switch D150QSPT
PANASONIC WV-C5600 and WV-C5850
SAMSUNG SCC641P and SCC643P
SANYO VCC9300P and VCC9400P
SANTEC VDC300ID
SENSORMATIC DeltaDome II
VCL VCS5-ORBM

Retrofit on discontinued products: contact Videotec for further specifications.
DCT
VIDEO AND TELEMTRY VIRTUAL CONTROL KEYBOARD

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, Ennitec, JVC, Kalatel, Mark Mercer, Panasonic, Pelco, Samsung, Sensorsmatic, 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
KEYBOARD SETUP

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

Example: Language menu.

Example: Communication/telemetry submenu.
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.

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

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.