



COE Telecommand - XC Matrix



Next generation high density video matrix for medium to large scale CCTV systems.

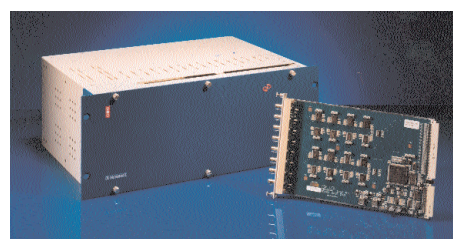
The Telecommand XC Matrix combines flexibility with the latest video processing technology to provide versatile, high performance video switching solutions for all medium to large sized CCTV systems. The modular design enables expansion of inputs, outputs or both, allowing very large and non standard matrix sizes to be realised.

Key Features and Benefits

- **TCD II and TCU16* compatible** – Full system compatibility provides easy expansion
- **Configurations from 16 x 8 to 384 x 32 or 192 x 64 available as standard** – Covers all medium to large sized CCTV applications
- **Expansion by simple addition of cards** – Gradual expansion capability meets budget constraints
- **Dual redundant PSU option available for every matrix** – Upgrade with second PSU provides ultimate system protection
- **Video sync loss detection on all inputs** – Comprehensive camera monitoring provides immediate warning
- **Local and remote card fault monitoring** – Comprehensive system monitor for fast maintenance diagnostics
- **Frames may be mounted for front or rear connection** – Eases installation in situations where cable access is severely limited
- **Red 'Sync Loss' screen output upon video signal error** – Additional visual warning of system fault
- **Programmable text insertion for time/date/camera titles/alarm messages** – Flexible text option on all outputs meets all users' requirements
- **Future proof design for digital/optical I/O** – Designed for next generation technology
- **Flexible matrix expansion without major re-cabling of existing installation** – Allows switch capacity to grow with customers' requirements
- **Three alarm relays included** – External system monitoring is made simple via relay outputs
- **System controller slot** – Future option for an integral controller saving cost and space
- **Vertical interval switching option for synchronized camera systems** – Eliminates picture roll, a feature normally only found on larger systems

System Overview

The XC range is based on a 4U frame format offering up to 96 x 32 in one frame which may be cascaded for expansion. Cards may be added easily as required. A comprehensive software control system enables fast switch times and monitoring via the RS232 interface. When coupled with TCD II and TCU16 it provides a comprehensive CCTV package offering high camera counts and powerful control features. Real time system monitoring and flash software upgrade path protects your investment.



*TCD II and TCU16 is the Telecommand Control Unit (TCU)

Product Codes

System Ordering**

Select Matrix with required outputs

- TCXCM0008** = Rack and PSU with 8 Outputs (card fitted)
- TCXCM00016** = Rack and PSU with 16 Outputs (cards fitted)
- TCXCM00024** = Rack and PSU with 24 Outputs (cards fitted)
- TCXCM00032** = Rack and PSU with 32 Outputs (cards fitted)

Select quantity of input cards required

- TCXCIP16** = 16 channel input card

**For systems sizes greater than 96 x 32, please consult COE Sales for advice on ordering and specification.

Spares

Order Code:	Description:
TCXCIP16	16 Channel I/P card
TCXCOP8	8 Channel O/P card
TCXCRK32	Rack - 96 x 32
TCXCXPIP-200	Expansion input cable 200mm
TCXCXPOP-300***	Expansion output cable 300mm
TCXCXPOP-500***	Expansion output cable 500mm
TCXCPSUAC	Power supply for use as spare or as second dual redundant unit

***Consists of two cables

Specification Overview:

Video (for fully expanded system) Limits

Input impedance:	75 Ohms
Output impedance:	75 Ohms
Input level:	1.0V pk-pk
Frequency responses:	+1.5dB to 6MHz +3dB to 10 MHz
Crosstalk:	>60dB @ 4.43MHz
S/N unified weighted:	>65dB (Ref 1V p-p)
Diff gain:	+3%
Diff phase:	+2°
K factor:	+1%
Feed-through:	> -65dB @ 4.43 MHz (I/P to O/P - no crosspoints set)
Connector:	BNC

Electrical

Power supply:	90-240V AC, 100W (per 4U frame, fully populated) Dual redundant PSU option available
Frame:	4U, 19" x 320mm chassis. Holds up to 6 input cards, 4 output cards and 2 power supplies

Mechanical

Frame size:	4U, 19"x 320 mm
Card entry:	From rear
Connections:	On rear panel(s)
Weight:	10.5kg fully populated

Local Alarms

Frame fault:	LED and relay
Card fault:	LED on each card and PSU
Programmable relays:	2 off, to any system function, programmed via TCU controller
Connector:	9 pin 'D' Type female

Communications Port

Type:	RS232
Baud rate:	9.6K
Connector:	9 pin 'D' Type male
Number:	One per system frame

Environmental

Operating temperature:	0°C to 60°C
Storage temperature:	-10°C to 70°C
Vibration:	5g
Humidity:	95%
CE compliance:	Full
Year 2000 compliance:	Full

EMC Tests

Radiated Emissions	EN55022: 1998 CISPR22: 1997 Class A
Harmonics	EN61000-3-2: 1998
Flicker	EN6100-3-3: 1995
Conducted Immunity	EN61000-4-6: 1996 10V AM & PM
Surge Immunity	EN61000-4-5: 1995 1kV Signal, 2kV Mains
Voltage Dips	EN61000-4-11: 1994



Issue 4 03/05

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