



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.

Features and Benefits

- TCU16* compatible – Full system compatibility provides easy expansion
- Configurations from 8 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
- Red 'Sync Loss' screen output upon video signal error – Additional visual warning of system fault
- Future proof design for digital/optical I/O – Designed for next generation technology
- Frames may be mounted for front or rear connection – Eases installation in situations where cable access is severely limited
- Programmable text insertion for time/date/camera titles/alarm messages – Flexible text option on all outputs meets all users' requirements
- Flexible matrix expansion without major re-cabling of existing installation – Allows switch capacity to grow with customers' requirements
- Vertical interval switching option for synchronized camera systems – Eliminates picture roll, a feature normally only found on larger systems
- 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

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 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.



* TCU16 is the Telecommand Control Unit (TCU)



Order Code Selector

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

TCXCIP8	=	8 channel input cards
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**For systems sizes greater than 96 x 32, please consult COE Sales for advice on ordering and specification.

Spares

Order Code:	Description:
TCXCIP8	8 Channel I/P card
TCXCOP8	8 Channel O/P card
TCXCRK32	Rack - 96 x 32
TCXCEPIP-200	Expansion input cable 200mm
TCXCEPOP-300***	Expansion output cable 300mm
TCXCEPOP-500***	Expansion output cable 500mm
TCXCPSUUAC	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:	± 1.5 dB to 6MHz ± 3 dB to 10 MHz
Crosstalk:	>60dB @ 4.43MHz
S/N unified weighted:	>65dB (Ref 1V p-p)
Diff gain:	± 3 %
Diff phase:	$\pm 2^\circ$
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 12 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 compliancy:	Full
Year 2000 compliancy:	Full



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Dealer Stamp

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