



### CFO Zero-latency Video Modems

Nearly two decades the traditional fibre optics operation has been the core technology in many security video systems.

With a successful background in this field Teleste continues the tradition by its well-known CFO product range.

The name may have a long history, but the design is far from being an old-fashioned.

Today the fully re-designed CFO platform is ready to challenge any modern system requirement in the class of uncompressed realtime video transmission.

Utilising the most appropriate technologies for each type of service required, the single product approach enables very cost effective solutions for video, audio, data, contact closure and even Ethernet signal optical transmission.

# CFO Video Modems for PTZ and Fixed Camera Applications

## CFO First Mile

The CFO First Mile product line varies from single channel small size video transmitters up to 8-channel video links. Additional features such as PTZ control data, audio

communication and contact closure operation are also supported. The most flexible designs have a built-in Fast Ethernet Bridge to carry IP services as well.

Video channels	Camera type	Fibre type	Distance (max)	Product name	Features	simplex --> duplex <-->	Product picture
1 (3*)	Fixed	MMF	6.5 km	<b>CFO100</b>	Video only (CFO103*)	-->	 CPT101      CPT321
1	PTZ	MMF	3.5 km	<b>CFO121</b>	3 x data, 2 x audio, 1 x cc	<-->	
1	PTZ	MMF	5 km	<b>CFO321</b>	1 x data, 1 x cc	<-->	
1	PTZ	SMF	50 km	<b>CFO161</b>	3 x data, 2 x audio, 1 x cc & 1 x Ethernet Bridge (100Base-Tx)	<-->	 CMT161
1	PTZ	SMF	20 km	<b>CFO521</b>	1 x data, 1 x cc	<-->	
1	PTZ	SMF	60 km	<b>CFO541</b>	1 x data, 1 x cc	<-->	
4	Fixed	MMF SMF	2 km 20/40km	<b>CFO410</b>	Video only, SFP optics	-->	 CRR410      CRR432
4	PTZ	MMF SMF	2 km 20/40km	<b>CFO420</b>	1 x data, SFP optics	<-->	
4	PTZ	MMF (x 2)	1.5 km	<b>CFO432</b>	3 x data, 2 x audio, 1 x cc & 1 x Ethernet Bridge (100Base-Tx)	--> <--	
4	PTZ	SMF	50 km	<b>CFO461</b>	3 x data, 2 x audio, 1 x cc & 1 x Ethernet Bridge (100Base-Tx)	<-->	 CMT461
4	Fixed	SMF	60 km	<b>CFO471</b>	3 x data, 2 x audio, 1 x cc	-->	
8	Fixed	MMF SMF	2 km 20/40km	<b>CFO810</b>	Video only, SFP optics	-->	 CMT861
8	PTZ	MMF SMF	2 km 20/40km	<b>CFO820</b>	1 x data, SFP optics	<-->	
8	PTZ	SMF	50 km	<b>CFO861</b>	3 x data, 2 x audio, 1 x cc & 1 x Ethernet Bridge (100Base-Tx)	<-->	
8	Fixed	SMF	60 km	<b>CFO871</b>	3 x data, 2 x audio, 1 x cc	-->	
4...72	Fixed or PTZ	SMF	~200 km	<b>OPX *</b>	Number of data/audio/cc channels Number of data/audio/cc/Ethernet (100Base-Tx) channels		 OPX rack

\* **CFO OPX** is a scalable system based on optical multiplexing (CWDM). Basic building blocks are 4-ch and 8-ch CEV series video modems for 8 different optical wavelengths (1460...1610 nm). Fully bi-directional service is available on each channel.

Point-to-point, add-and-drop and ring topologies are well supported. Optical repeaters for long haul operation and optical switches for redundancy needs are also available.

## CFO Accessories

- > **CES** series Fast and Gigabit Ethernet switches together with a selection of various SFP optics (MMF, SMF)
- > **COR** series optical repeaters for long haul CWDM & 1310 nm operation
- > **COM** series optical switch for various redundancy and re-routing requirements

- > **CLP** line protection modules for CFO stand-alone installations which provides overvoltage protection and mains hum suppression
- > Various active and passive components to support fluent installation and system operation either for rack mount or stand-alone settings