

## Product Information - CFO331, 521 & 541

# Single channel video link

For high performance uncompressed real time video transmission. CFO First Mile product consist of fibre optic video modems providing a lossless pointto-point transmission system for variety of CCTV applications.











This selected CFO series is capable of proving an optical transmission for a composite video, one serial data and one contact closure type I/O channel. Data and CC communication is 2-way. Data channel is configurable to various RS modes by DIP switches.

This series has dedicated models for multimode and single mode fibre operation. Typical achievable transmission distance in multimode fibre (OM1 & 2) is 5 km. For single mode fibre the typical

max distance is either 20 km or 60 km depending on model.

The video transmitters in this range are available only in a compact size standalone format which is suitable for various mounting schemes. Also a DIN mounting is available as an option. The powering for standalone unit is provided by additional CPS25x series mains adapters. A special model CCT541 is available for integrated dome camera mounting and it is in specific compatible with Pelco Spectra® III & IV domes.

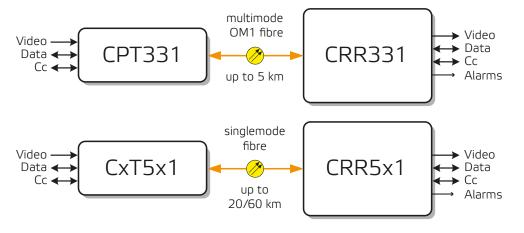
All video receivers are slim 5HP wide rack cards compatible with CFO series 19" installation racks with redundant powering options.

The primary application is a point-topoint transmission from camera to monitoring location. In advanced video network systems CFO First Mile series provides a flexible way to bring the camera feeds in reach of the nearest IP network collection point for further encoding.

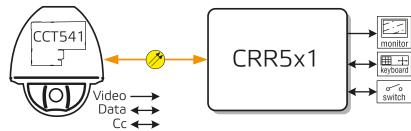
#### **Features**

- High performance uncompressed zero delay digital video transmission, SNR 67 dB typical, 10 bit video sampling
- One CVBS (PAL/NTSC) video channel
- One bi-directional data interface, compatible with EIA232/422/485
- Data rate up to 230 kbps
- One bi-directional contact closure
- Transmission on one multimode fibre up to 5 km (CFO331)
- Transmission on one singlemode fibre up to 20/60 km (CFO521/541)
- Units for rack mount or stand-alone installations
- Mechanically compact and ruggedised (CPT)
- CCT541 transmitter add-on board for dome camera installations (compatible with Pelco Spectra<sup>®</sup> III & IV series)

### Block diagrams



## Application example



Technical specifications (Typical values unless otherwise stated)

ptical, forward			Data		
Output wavelength Output power nput sensitivity Output power nput sensitivity	-158 dBm y -28 dBm, min -148 dBm	typical, +/- 50 nm CFO331, MM CFO331 CFO521, SM CFO521 CFO541, SM CFO541  0 nm CFO331 CFO331 CFO331 CFO521 CFO521 CFO541 CFO541	Number of channels Data format Data rate Sampling rate Data connector	1 RS232/422/485 0230 kbps 16 MHz Screw terminal	bi-directional selectable
Output power Input sensitivity Bit rate Optical connector type Optical, return	-50 dBm -33 dBm, min 202.5 Mbps SC/PC		Contact Closure  Number of channels Input Output Switching frequency	1 dry contact 24V / 1A (relay) 5 Hz	bi-directional max
Output wavelength Output power	1550 nm, typical, +/-50 nm -158 dBm		Contact closure connector	Screw terminal	
Input sensitivity Output power Input sensitivity	-28 dBm, min -148 dBm -31 dBm, min		Alarms  Video  Optical input signal	CC output B alarm	configurable CRR
Output power	-158 dBm		General		
Input sensitivity Bit rate Optical connector type	-33 dBm, min 40.5 Mbps SC/PC		Supply voltage Supply voltage connector	10.514 VDC 1628 VAC screw terminal	regulated CPT, CCT CPT
Video			Current consumption	250 mA	max
Number of channels Standard Input level Input overload level Impedance Sampling resolution Sampling rate Bandwidth Insertion gain C/L gain inequality C/L delay inequality Differential gain Differential phase	1 PAL/NTSC 1 Vpp 1.75 Vpp 75 ohm 10 bit 13.5 MHz 5.5 MHz +/-1 dB 4 % 40 ns 2 % 10	uni-directional CVBS	Dimensions (H x W x D) CRR CPT CCT Weight  Video & link status Operating temperature Storage temperature Humidity EMC compatibility  Notes  Class 1 Laser Product Class 1M Laser Product Copyright © 2012 Teleste Corporation	3U • 5HP • 190 mm 35 • 48 • 62 mm 81 • 64 • 16 mm 0.1 kg 0.2 kg 0.5 kg LED displays -10+60 °C -34+74 °C -40+80 °C 095 % EN61000-6-3, EN50130	without CMA without connectors without connectors CCT CPT CRR  CFO521 CFO331/541 recommended non condensing
SNR	67 dB BNC female	weighted	Notes		
Video connector			Class 1 Laser Product Class 1M Laser Product Copyright © 2012 Teleste Corporation	. All rights reserved. TELESTE is a rea	CFO521 CFO331/541 gistered trademark of Teleste Corporat