

FDVA1- #C1 Series

One Channel Video with return simplex Data, Point to Point Transmission

Product Description

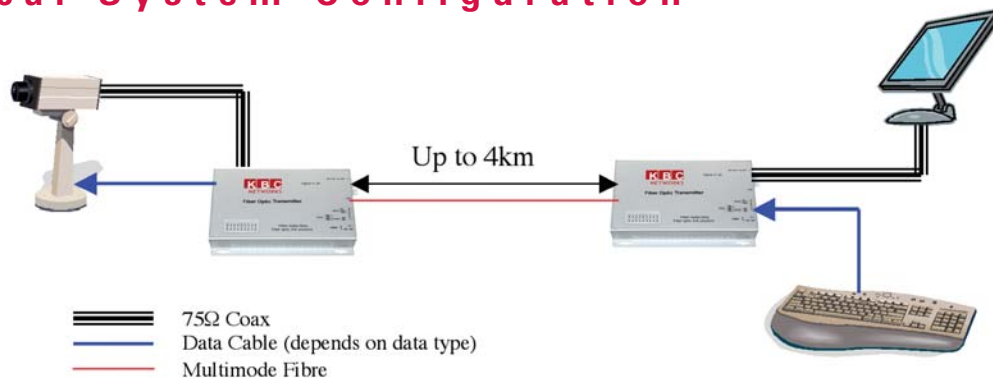
The KBC FDVA1-#C1 series uses the most advanced digital technologies to provide excellent, repeatable performance for today's CCTV systems. It supports transmission of one analogue composite video channel and one simplex data channel over either one or two Multimode optical fibres. PAL, NTSC and SECAM video standards are fully supported, and the data channel supports simplex RS232 or RS422 PTZ (Pan-Tilt-Zoom) control signals. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to clearly show the operational status of the unit. This series is available in either compact, Wall Mount and 3U chassis card configurations.



Product Features

- 8 bit digitally encoded non-compressed video transmission
- Simplex RS232 or RS422 data
- LED indicators provide quick diagnosis of all important system parameters.
- Up to 14 receivers in one 3U chassis
- Compact, Wall mount, and 3U chassis card configurations.

Typical System Configuration



VIDEO

No of Channels	1
Format	PAL / NTSC / SECAM
Input/Output	1.0V p-p typical, 75Ω
Bandwidth	5Hz ~ 8MHz
Digital Encoding (non Compressed)	8 bit
Differential Gain (10-90% APL)	< 2%
Differential Phase (10-90% APL)	< 2°
Signal to Noise Ratio (SNR) weighted	> 60dB

DATA⁽¹⁾

Data Formats	RS232, RS422
Two Way Channels	1
RS-232 / RS422 Data Rate	DC ~ 115.2kbps
Bit error rate	< 1 x 10 ⁻¹²
Encoding schemes	Manchester, Bi-Phase, NRZ, NRZI

OPTICAL

Wavelength	1310nm/1550nm
Fibre	Multimode
Number of Fibres	1 or 2

POWER

Power Input	Compact	+12Vdc & 24Vac
	Wall Mount	+12Vdc
Power Supply ⁽²⁾		Input: 100~240Vac; Output: +12Vdc
Chassis Card		Supplied from FR3 PSU

ENVIRONMENTAL

Operating Temperature	-40° ~ +70°C / -40° ~ +158°F
Storage Temperature	-40° ~ +70°C / -40° ~ +158°F
Operating Humidity	0 to 95% non-condensing
Mean Time Between Failure (MTBF)	> 100,000 Hours
Number of 3U Chassis Card Slot ⁽³⁾	1

MECHANICAL

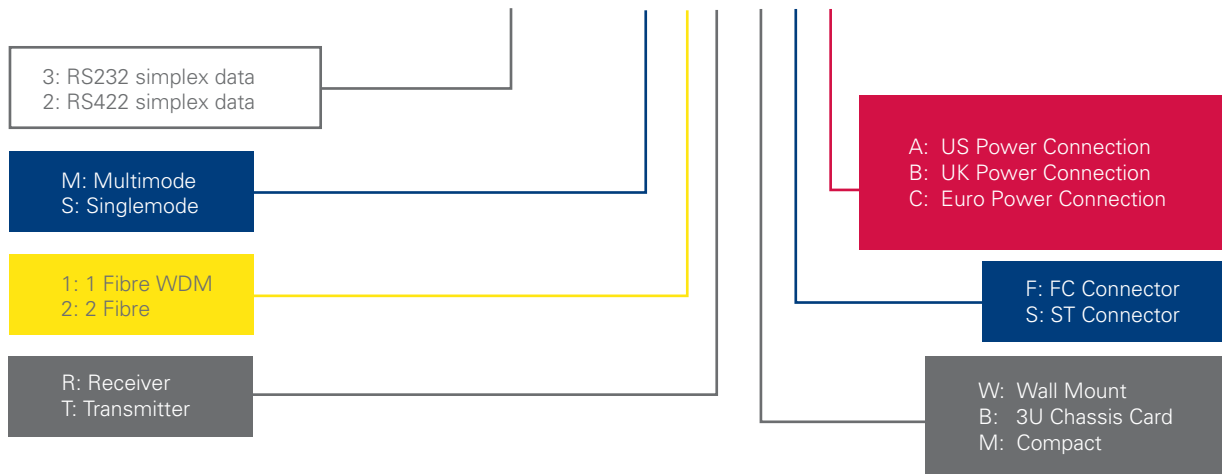
Dimensions (compact, L x W x H)	50mm x 48.5mm x 27mm
Dimensions (Wall Mount, L x W x H)	135mm x 116mm x 36mm

CONNECTORS

Video	BNC 75Ω
Data	Screw Block Terminal
Fibre	ST or FC (ST fitted as standard)
Power ⁽⁴⁾	Screw Block Terminal (for compact and wall mount)

Part Number Configurator

FDVA1-2C1-M1T-BSB



Optical Budget

Part Code	Fibre Type	Fibre No.	Optical Budget		Wavelength nm	Approximate Transmission Distance ⁽⁵⁾
			62.5μm	50μm		
FDVA1-#C1-M2*	Multimode	2	15dB	11dB	1310	0~4km
FDVA1-#C1-M1*	Multimode	1	15dB	11dB	1310/1550	0~4km

1 RS232 and RS422 are factory set.

2 Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin Square when placing order.

3 Support maximum up to 14 cards for each 3U chassis

4 Power lines are crimped and fitted to screw block connector in factory.

5 Transmission distance is limited by optical loss of the fiber and loss introduced by connectors, splices and patch panels. Fiber bandwidth also limits the transmission distance.

Due to ongoing technological improvements, product specifications are subject to change without notice.

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