

# FDVA Series

One Channel Video, Point-to-Point Transmission

## Product Description

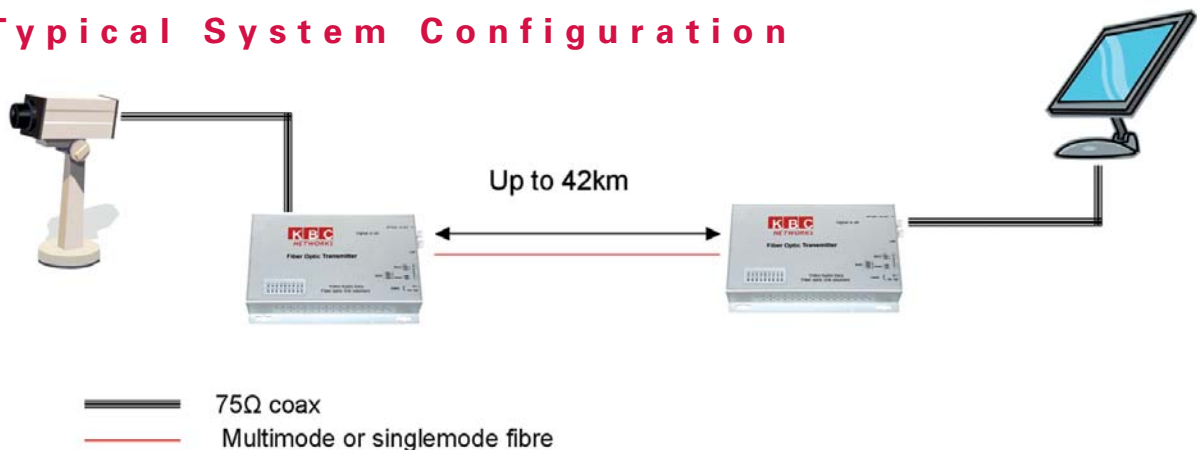
The KBC FDVA series uses the most advanced digital techniques to provide excellent, repeatable performance for today's CCTV systems. It supports transmission of one analogue composite video channel over one multimode or singlemode optical fibre. Products with one, two or four individual modules within a single unit are available, offering substantial savings in racking and power requirements on site. This series is available in compact, wallmount or 3U chassis card configurations. PAL, NTSC and SECAM standards are fully supported



## Product Features

- 8 bit digitally encoded non-compressed video transmission
- Unique 4 channel wallmount and card module
- Up to 56 receivers in one 3U chassis
- Singlemode and multimode solutions

## Typical System Configuration



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[www.kbcnetworks.com](http://www.kbcnetworks.com)

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## VIDEO

No of Channels per Module <sup>(1)</sup>	1
Format	PAL / NTSC / SECAM
Input/Output	1.0V p-p typical, 75 Ω
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

## OPTICAL

Wavelength	1310nm
Fibre	Multimode or Singlemode
Number of Fibres	1

## POWER

Power Input Compact	+12Vdc & 24Vac
Wall Mount	+12Vdc
Power Supply <sup>(2)</sup>	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

## MECHANICAL

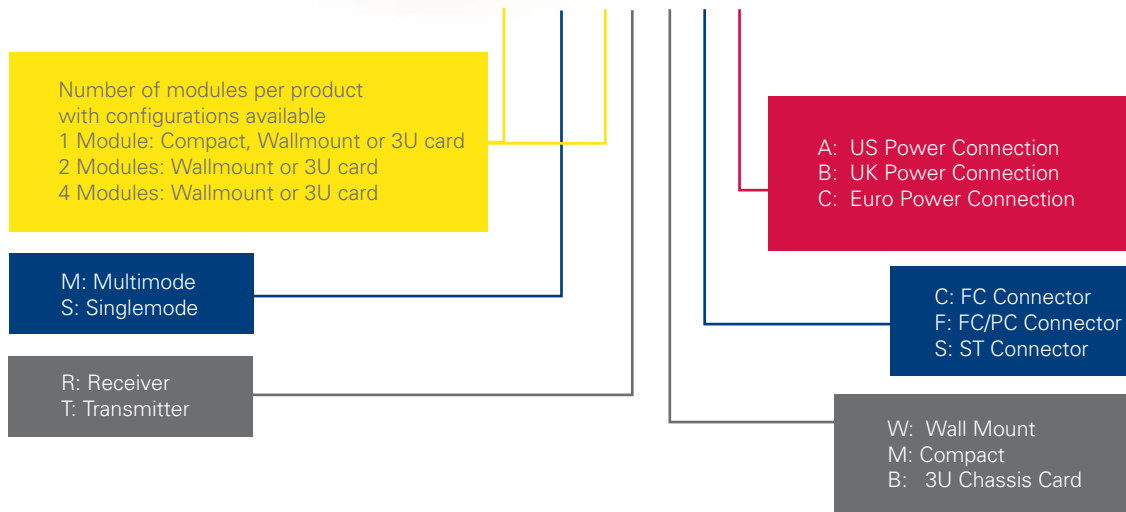
Dimensions (compact, L x W x H)	50mm x 48.5mm x 27mm
Dimensions (Wall Mount, L x W x H)	135mm x 116mm x 36mm
Number of 3U Chassis Card Slot <sup>(3)</sup>	1

## CONNECTORS

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

## Part Number Configurator

# FDVA1-M1T-BSB



## Optical Budget

Part Code	Fibre Type	Fibre No.	Optical Budget			Wavelength nm	Approximate Transmission Distance <sup>(5)</sup>
			50μm	62.5μm	9μm		
FDVA1-M1	Multimode	1	11dB	15dB		1310	0~4km
FDVA1-S1	Singlemode	1			15dB	1310	0~42km

- There can be more than 1 module on a product configuration. Please refer to Part Number Configurator for number of modules available.
- Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin Square when placing order.
- Support maximum up to 14 cards in each 3U Chassis.
- Power lines are crimped and fitted to screw block connector in factory.
- 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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