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

Up to 42km

75Ω coax
Multimode or singlemode fibre
VIDEO
No of Channels per Module**: 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**: 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: > 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**: 1

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

Part Number Configurator
FDVA1-M1T-BSB

Optical Budget

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Fibre Type</th>
<th>No.</th>
<th>50μm</th>
<th>62.5μm</th>
<th>9μm</th>
<th>Wavelength</th>
<th>Approximate Transmission Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDVA1-M1</td>
<td>Multimode</td>
<td>1</td>
<td>11dB</td>
<td>15dB</td>
<td>1310</td>
<td>0~4km</td>
<td></td>
</tr>
<tr>
<td>FDVA1-S1</td>
<td>Singlemode</td>
<td>1</td>
<td>15dB</td>
<td>15dB</td>
<td>1310</td>
<td>0~42km</td>
<td></td>
</tr>
</tbody>
</table>

1. There can be more than 1 module on a product configuration. Please refer to Part Number Configurator for number of modules available.
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 in 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.