



FAVA Series

One Channel Video, Point-to-Point Transmission

Product Description

The KBC FAVA series supports the transmission of analogue composite video signals over multimode optical fibre. Amplitude Modulation (AM) of the optical signal is employed to provide high performance transmission at a very cost effective level. Automatic Gain Control (AGC) receivers are offered as standard, simplifying installation and ensuring long term system stability. This series is available as a compact, desktop or 3U chassis card. PAL, NTSC and SECAM standards are fully supported.

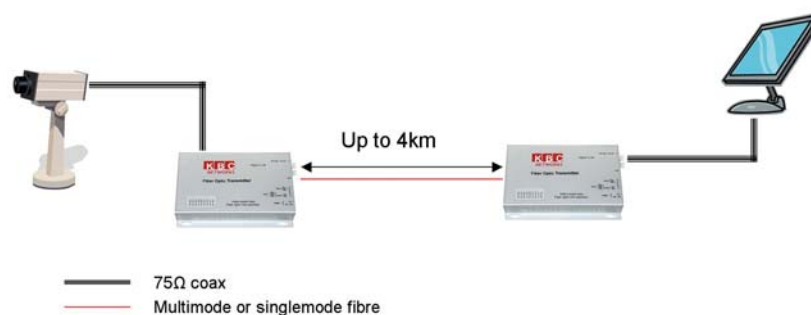
Transmitters are available in a compact form factor, allowing the transmitter to mount directly to the camera without the need for coaxial cable interconnection. Compact transmitters will fit inside most camera housings.



Product Features

- Amplitude (Intensity) modulation
- Automatic Gain Control (AGC) on every receiver.
- Transmitter is direct camera mountable
- 3 channels on 3U card
- Up to 42 receivers in one 3U chassis

Typical System Configuration



Specifications

VIDEO

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

OPTICAL

Wavelength	1310nm
Number of Fibres	1
Fibre	Multimode

POWER

Power Input (Compact)	+12Vdc
Power Input (Wall Mount)	+5Vdc
Power Supply ⁽²⁾	Input: 100~240VAC; Output: +12Vdc or +5Vdc
Chassis Card	Supplied from FR3

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

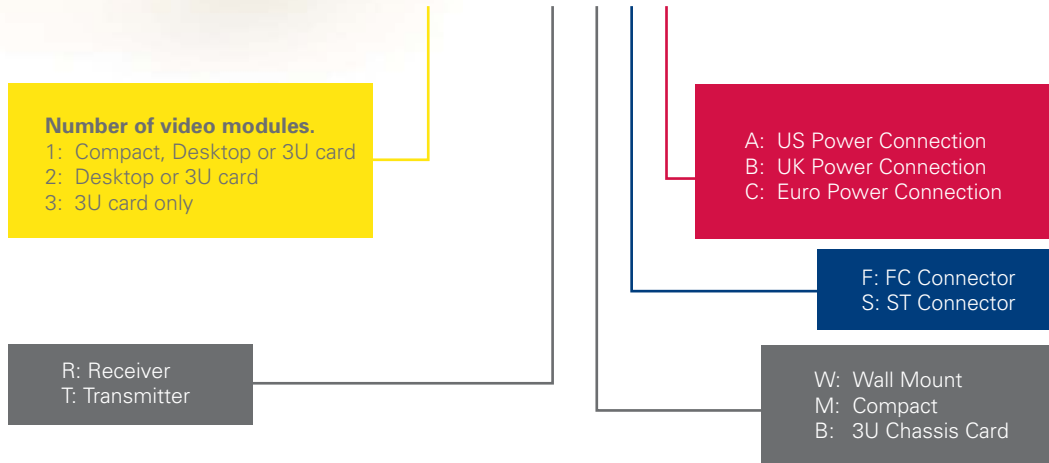
Dimensions (Compact, L x W x H)	135mm x 116mm x 36mm / 5.32" x 4.57" x 1.42"
Dimensions (Wall Mount, L x W x H)	60mm x 28.5mm x 26mm / 2.36" x 1.12" x 1.02"
Number of 3U Chassis Card Slots ⁽³⁾	1

CONNECTORS

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

Part Number Configurator

FAVA1-M1T-BSB



Optical Budget

Part Code	Fibre Type	No.	Optical Budget	Wavelength nm	Approximate Transmission Distance ⁽⁵⁾
FAVA1-M*	Multimode	1	15dB	1310	0~4km / 0~2.5miles

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 fibre and loss introduced by connectors, splices and patch panels. Fibre bandwidth also limits the transmission distance.

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

flexible • reliable • proven

