

The power of networks

BELCOMMS

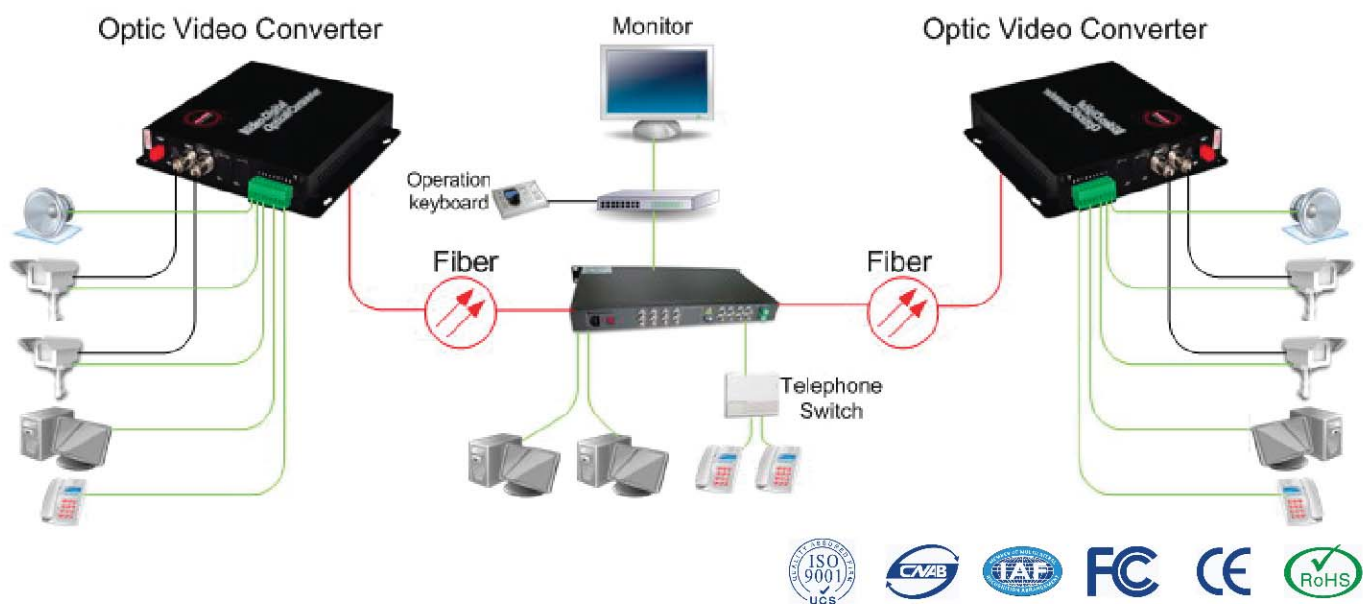


Fiber Optic Video Media Converter Transceiver



Content

BELLCOMMS fiber-optic video transceivers can simultaneously transmit 1~64 channels of 8-bit Digitally encoded broadcast quality video/return or bidirectional data/unidirectional or bidirectional audio/ Ethernet /Telephone/Dry contact over one multimode or single-mode optical fiber. The semultiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.



Order Part No.	Product Description	TX or RX	FO Distance
VT-10FMM1BNC-02	Mini(MM)Video Converter 1 CH w/Data	Transmitter	2Km./FC
VR-10FMM1BNC-02	Mini(MM)Video Converter 1 CH w/Data	Receiver	2Km./FC
VT-10FSM1BNC-20	Mini(SM)Video Converter 1 CH w/Data	Transmitter	20Km./FC
VR-10FSM1BNC-20	Mini(SM)Video Converter 1 CH w/Data	Receiver	20Km./FC
VT-10FMM2BNC-02	Mini(MM)Video Converter 2 CH w/Data	Transmitter	2Km./FC
VR-10FMM2BNC-02	Mini(MM)Video Converter 2 CH w/Data	Receiver	2Km./FC
VT-10FSM2BNC-20	Mini(SM)Video Converter 2 CH w/Data	Transmitter	20Km./FC
VR-10FSM2BNC-20	Mini(SM)Video Converter 2 CH w/Data	Receiver	20Km./FC
VT-10FMM4BNC-02	Mini(MM)Video Converter 4 CH w/Data	Transmitter	2Km./FC
VR-10FMM4BNC-02	Mini(MM)Video Converter 4 CH w/Data	Receiver	2Km./FC
VT-10FSM4BNC-20	Mini(SM)Video Converter 4 CH w/Data	Transmitter	20Km./FC
VR-10FSM4BNC-20	Mini(SM)Video Converter 4 CH w/Data	Receiver	20Km./FC
VT-10FMM8BNC-02	Mini(MM)Video Converter 8 CH w/Data	Transmitter	2Km./FC
VR-10FMM8BNC-02	Mini(MM)Video Converter 8 CH w/Data	Receiver	2Km./FC
VT-10FSM8BNC-20	Mini(SM)Video Converter 8 CH w/Data	Transmitter	20Km./FC
VR-10FSM8BNC-20	Mini(SM)Video Converter 8 CH w/Data	Receiver	20Km./FC
VT-10FMM16BNC-02	Mini(MM)Video Converter 16 CH w/Data	Transmitter	2Km./SFP
VR-10FMM16BNC-02	Mini(MM)Video Converter 16 CH w/Data	Receiver	2Km./SFP
VT-10FSM16BNC-20	Mini(SM)Video Converter 16 CH w/Data	Transmitter	20Km./SFP
VR-10FSM16BNC-20	Mini(SM)Video Converter 16 CH w/Data	Receiver	20Km./SFP
CH-16SLOTCHA-16-2U	16-Slots 2U Chassis for video Converter Cards		support
CH-16SLOTCHA-16-4U	16-Slots 4U Chassis for Video Converter Cards		for 1BNC 2,4,8 BNC

Video Converter
1Fiber to 1 BNC



03-04

VT-10FMM1BNC-02
VR-10FMM1BNC-02
VT-10FSM1BNC-20
VR-10FSM1BNC-20
VT-10FMM1BNC2A-02
VR-10FMM1BNC2A-02
VT-10FSM1BNC2A-20
VR-10FSM1BNC2A-20

Video Converter
1Fiber to 2 BNC



05

VT-10FMM2BNC-02
VR-10FMM2BNC-02
VT-10FSM2BNC-20
VR-10FSM2BNC-20

Video Converter
1Fiber to 4 BNC



06

VT-10FMM4BNC-02
VR-10FMM4BNC-02
VT-10FSM4BNC-20
VR-10FSM4BNC-20

Video Converter
1Fiber to 8 BNC



07

VT-10FMM8BNC-02
VR-10FMM8BNC-02
VT-10FSM8BNC-20
VR-10FSM8BNC-20

Video Converter
1Fiber to 16 BNC



08

VT-10FMM16BNC-02
VR-10FMM16BNC-02
VT-10FSM16BNC-20
VR-10FSM16BNC-20

Video Converter Card
1Fiber to 1,2,4,8,16 BNC



09

VT-10FMM1BNC-02C
VR-10FMM1BNC-02C
VT-10FSM1BNC-20C
VR-10FSM1BNC-20C
VT-10FMM2BNC-02C
VR-10FMM2BNC-02C
VT-10FSM2BNC-20C
VR-10FSM2BNC-20C
VT-10FMM4BNC-02C
VR-10FMM4BNC-02C
VT-10FSM4BNC-20C
VR-10FSM4BNC-20C
VT-10FMM8BNC-02C
VR-10FMM8BNC-02C
VT-10FSM8BNC-20C
VR-10FSM8BNC-20C
VT-10FMM16BNC-02C
VR-10FMM16BNC-02C
VT-10FSM16BNC-20C
VR-10FSM16BNC-20C

Chassis Video Card



10

CH-16SLOTCHA-16

Ethernet Surge
Protection



11

BC-5010

Video Surge
Protection



12

BC-5052

RS 485 Surge
Protection



13

BC-5053

CCTV Balun CCTV +
Power + Data



14

BC-5054

CCTV Balun CCTV
+ Power



15

BC-5055

POE Splitter Cable



16

POE-0921
POE-0924

2&4 channel video
multiplexer

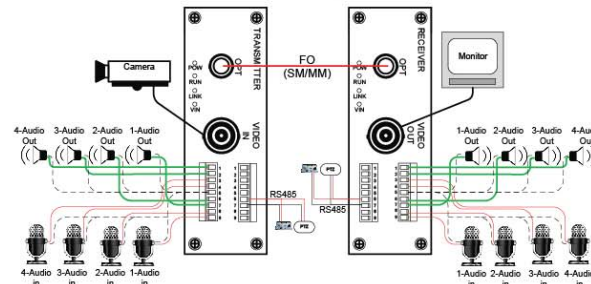


17-18

BC-921T
BC-941R

Features 1-fiber to 1-BNC

1. 8-bit digitally encoded and non-compression broadcast quality video transmission
2. Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
3. Support any high-resolution video signal
4. Automatic compatible PAL, NTSC and SECAM video system
5. Power supply and other parameter state indication, which can monitor the operation condition of system
6. Support no-damage regenerative trunk of video
7. Constant input optical power, and large dynamic range ,no Electrical or Optical Adjustments Required .
8. Special ASIC design .
9. Industry-grade of operating temperature from -10°C to 65°C, which is applied to the different working environment
10. Hot-swap function
11. Stand-alone type or card-type installed in 19" 2U rack-mount chassis.



Order Part No.	Product Description	TX or RX	FO Distance
VT-10FMM1BNC2A-02	Mini(MM)1 video+1bi-directional data (RS485)+2bi-direction audio(stereo)	Transmitter	2Km./FC
VR-10FMM1BNC2A-02	Mini(MM)1 video+1bi-directional data (RS485)+2bi-direction audio(stereo)	Receiver	2Km./FC
VT-10FSM1BNC2A-20	Mini(SM)1 video+1bi-directional data (RS485)+2bi-direction audio(stereo)	Transmitter	20Km./FC
VR-10FSM1BNC2A-20	Mini(SM)1 video+1bi-directional data (RS485)+2bi-direction audio(stereo)	Receiver	20Km./FC

Introduction

BELLCOMMS fiber-optic video transceivers series can simultaneously transmit 1 channel of 8-bit digitally encoded broadcast quality video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

Application

1. Intelligent Transportation System
2. Connection of Sub-network for Surveillance Center
3. Public Security Surveillance
4. High Way & Toll Station Surveillance
5. Industrial Closed Circuit Television Surveillance

Specifications

Technical Specification

Video channels	: 1 channel
Video bandwidth	: 8 MHz
Automatic compatible video system	: PAL, NTSC, SECAM
Video input/output impedance	: 75Ω (unbalance)
Video signal-to-noise ratio	: ≥67dB
Differential gain	: (10%-90%APL) DG <1% (typical value)
Differential phase	: (10%-90%APL) DP <0.7° (typical value)
Video connector	: BNC

Fiber optic Specification

F/O connector	: FC/ST/SC
TX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
RX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
Transmission Distance	: 20KM (singlemode) Operating
Wavelength	: TX1310/RX1550nm (Transmitter); TX1550/RX1310nm (Receiver)
Transmission Distance	: 2KM (multi mode) Operating
Wavelength	: TX850/RX1300nm (Transmitter); TX1300/RX850nm (Receiver)

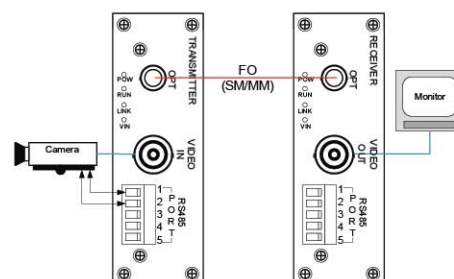
Data	
Connector	: Terminal Blocks
Encoded type	: RS485 / RS422 / RS232 / Manchester
Data rate	: 0 - 400Kbps
BER	: ≤10-9

Specification of custom-made options

1. Audio
 - Connector : Terminal Blocks
 - Audio input / output impedance : 600Ω (Balance/unbalance)
 - Audio input / output voltage : 2Vp-p (typical value)
 - Audio input / output level : 0dBm (typical value)
 - Video bandwidth : 10HZ~12KHZ
 - Audio digital encoded bandwidth : 24bit
 - Audio signal-to-noise ratio : S/N ≥ 95dB (weighted)
2. Telephone
 - Connector : RJ11
 - Bandwidth : 8KHZ
 - Features : Support call-showing function; support H-F
 - Operating mode : Point to point hotline mode / FXS-FXO
3. Ethernet
 - Connector : RJ45
 - Support mode : Half duplex or Full duplex
 - Standards : IEEE802.3
 - Data rate : 10M / 100Mbps
 - Bandwidth : 25M
 - Characteristic
 - Dimensions : 11.1(L)×10.7(W)×2.8(H) cm
 - Operating Voltage : DC5V (we will offer external power supply from AC96-240V to DC5V for each unit)
 - Operating Temperature : -10°C to +65°C
 - Storing Temperature : -45°C to +85°C
 - Humidity : 0 to 95% non-condensing
 - MTBF : ≥105 hours
 - Warranty : 5 years
 - Approvals : FCC,CE, RoHS approvals

Features 1-fiber to 1-BNC

1. 8-bit digitally encoded and non-compression broadcast quality video transmission
2. Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
3. Support any high-resolution video signal
4. Automatic compatible PAL, NTSC and SECAM video system
5. Power supply and other parameter state indication, which can monitor the operation condition of system
6. Support no-damage regenerative trunk of video
7. Constant input optical power, and large dynamic range ,no Electrical or Optical Adjustments Required.
8. Special ASIC design .
9. Industry-grade of operating temperature from -10°C to 65°C, which is applied to the different working environment
10. Hot-swap function
11. Stand-alone type or card-type installed in 19" 2U rack-mount chassis.



Order Part No.	Product Description	TX or RX	FO Distance
VT-10FMM1BNC-02	Mini(MM)Video Converter 1 CH w/Data	Transmitter	2Km./FC
VR-10FMM1BNC-02	Mini(MM)Video Converter 1 CH w/Data	Receiver	2Km./FC
VT-10FSM1BNC-20	Mini(SM)Video Converter 1 CH w/Data	Transmitter	20Km./FC
VR-10FSM1BNC-20	Mini(SM)Video Converter 1 CH w/Data	Receiver	20Km./FC

Introduction

BELLCOMMS fiber-optic video transceivers series can simultaneously transmit 1 channel of 8-bit digitally encoded broadcast quality video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

Application

1. Intelligent Transportation System
2. Connection of Sub-network for Surveillance Center
3. Public Security Surveillance
4. High Way & Toll Station Surveillance
5. Industrial Closed Circuit Television Surveillance

Specifications

Technical Specification

Video channels	: 1 channel
Video bandwidth	: 8 MHz
Automatic compatible video system	: PAL, NTSC, SECAM
Video input/output impedance	: 75Ω (unbalance)
Video signal-to-noise ratio	: ≥67dB
Differential gain	: (10%-90%APL) DG <1% (typical value)
Differential phase	: (10%-90%APL) DP <0.7° (typical value)
Video connector	: BNC

Fiber optic Specification

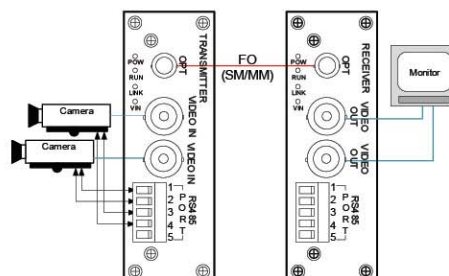
F/O connector	: FC/ST/SC
TX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
RX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
Transmission Distance	: 20KM (singlemode) Operating
Wavelength	: TX1310/RX1550nm (Transmitter); TX1550/RX1310nm (Receiver)
Transmission Distance	: 2KM (multi mode) Operating
Wavelength	: TX850/RX1300nm (Transmitter); TX1300/RX850nm (Receiver)
Data	
Connector	: Terminal Blocks
Encoded type	: RS485 / RS422 / RS232 / Manchester
Data rate	: 0 - 400Kbps
BER	: ≤10-9

Specification of custom-made options

1. Audio
 - Connector : Terminal Blocks
 - Audio input / output impedance : 600Ω (Balance/unbalance)
 - Audio input / output voltage : 2Vp-p (typical value)
 - Audio input / output level : 0dBm (typical value)
 - Video bandwidth : 10HZ~12KHZ
 - Audio digital encoded bandwidth : 24bit
 - Audio signal-to-noise ratio : S/N≥ 95dB (weighted)
2. Telephone
 - Connector : RJ11
 - Bandwidth : 8KHZ
 - Features : Support call-showing function; support H-F
 - Operating mode : Point to point hotline mode / FXS-FXO
3. Ethernet
 - Connector : RJ45
 - Support mode : Half duplex or Full duplex
 - Standards : IEEE802.3
 - Data rate : 10M / 100Mbps
 - Bandwidth : 25M
 - Characteristic
 - Dimensions : 11.1(L)×10.7(W)×2.8(H) cm
 - Operating Voltage : DC5V (we will offer external power supply from AC96-240V to DC5V for each unit)
 - Operating Temperature : -10°C to +65°C
 - Storing Temperature : -45°C to +85°C
 - Humidity : 0 to 95% non-condensing
 - MTBF : ≥105 hours
 - Warranty : 5 years
 - Approvals : FCC,CE, RoHS approvals

Features 1-fiber to 2-BNC

1. 8-bit digitally encoded and non-compression broadcast quality video transmission
2. Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
3. Support any high-resolution video signal
4. Automatic compatible PAL, NTSC and SECAM video system
5. Power supply and other parameter state indication, which can monitor the operation condition of system
6. Support no-damage regenerative trunk of video
7. Constant input optical power, and large dynamic range, no Electrical or Optical Adjustments Required .
8. Special ASIC design .
9. Industry-grade of operating temperature from -10°C to 65°C, which is applied to the different working environment
10. Hot-swap function
11. Stand-alone type or card-type installed in 19" 2U rack-mount chassis.



Order Part No.	Product Description	TX or RX	FO Distance
VT-10FMM2BNC-02	Mini(MM)Video Converter 2 CH w/Data	Transmitter	2Km./FC
VR-10FMM2BNC-02	Mini(MM)Video Converter 2 CH w/Data	Receiver	2Km./FC
VT-10FSM2BNC-20	Mini(SM)Video Converter 2 CH w/Data	Transmitter	20Km./FC
VR-10FSM2BNC-20	Mini(SM)Video Converter 2 CH w/Data	Receiver	20Km./FC

Introduction

BELLCOMMS fiber-optic video transceivers series can simultaneously transmit 2 channel of 8-bit digitally encoded broadcast quality video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

Application

1. Intelligent Transportation System
2. Connection of Sub-network for Surveillance Center
3. Public Security Surveillance
4. High Way & Toll Station Surveillance
5. Industrial Closed Circuit Television Surveillance

Specifications

Technical Specification

Video channels	: 1 channel
Video bandwidth	: 8 MHz
Automatic compatible video system	: PAL, NTSC, SECAM
Video input/output impedance	: 75Ω (unbalance)
Video signal-to-noise ratio	: ≥67dB
Differential gain	: (10%-90%APL) DG <1% (typical value)
Differential phase	: (10%-90%APL) DP <0.7° (typical value)
Video connector	: BNC

Fiber optic Specification

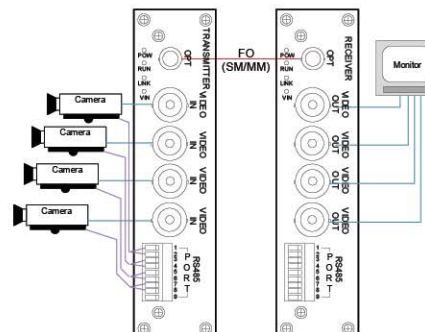
F/O connector	: FC/ST/SC
TX	: Power: -15 ~ -8dBm Sensitivity :≤-35dBm
RX	: Power: -15 ~ -8dBm Sensitivity :≤-35dBm
Transmission Distance	: 20KM (singlemode) Operating
Wavelength	: TX1310/RX1550nm (Transmitter); TX1550/RX1310nm (Receiver)
Transmission Distance	: 2KM (multi mode) Operating
Wavelength	: TX850/RX1300nm (Transmitter); TX1300/RX850nm (Receiver)
Data	
Connector	: Terminal Blocks
Encoded type	: RS485 / RS422 / RS232 / Manchester
Data rate	: 0 - 400Kbps
BER	: ≤10-9

Specification of custom-made options

1. Audio
 - Connector: Terminal Blocks
 - Audio input / output impedance: 600Ω(Balance/ unbalance)
 - Audio input / output voltage: 2Vp-p (typical value)
 - Audio input / output level: 0dBm (typical value)
 - Video bandwidth: 10HZ~12KHZ
 - Audio digital encoded bandwidth: 24bit
 - Audio signal-to-noise ratio: S/N≥ 95dB (weighted)
2. Telephone
 - Connector : RJ11
 - Bandwidth : 8KHZ
 - Features : Support call-showing function ;support H-F
 - Operating mode : Point to point hotline mode / FXS-FXO
3. Ethernet
 - Connector : RJ45
 - Support mode : Half duplex or Full duplex
 - Standards : IEEE802.3
 - Data rate : 10M / 100Mbps
 - Bandwidth : 25M
 - Characteristic
 - Dimensions : 11.1(L)x10.7(W)x2.8(H) cm
 - Operating Voltage : DC5V (we will offer external power supply from AC96-240V to DC5V for each unit)
 - Operating Temperature : -10°C to +65°C
 - Storing Temperature : -45°C to +85°C
 - Humidity : 0 to 95% non-condensing
 - MTBF : ≥ 105 hours
 - Warranty : 5 years
 - Approvals : FCC,CE, RoHS approvals

Features 1-fiber to 4-BNC

1. 8-bit digitally encoded and non-compression broadcast quality video transmission
2. Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
3. Support any high-resolution video signal
4. Automatic compatible PAL, NTSC and SECAM video system
5. Power supply and other parameter state indication, which can monitor the operation condition of system
6. Support no-damage regenerative trunk of video
7. Constant input optical power, and large dynamic range, no Electrical or Optical Adjustments Required.
8. Special ASIC design.
9. Industry-grade of operating temperature from -10°C to 65°C, which is applied to the different working environment
10. Hot-swap function
11. Stand-alone type or card-type installed in 19" 2U rack-mount chassis.



Order Part No.	Product Description	TX or RX	FO Distance
VT-10FMM4BNC-02	Mini(MM)Video Converter 4 CH w/Data	Transmitter	2Km./FC
VR-10FMM4BNC-02	Mini(MM)Video Converter 4 CH w/Data	Receiver	2Km./FC
VT-10FSM4BNC-20	Mini(SM)Video Converter 4 CH w/Data	Transmitter	20Km./FC
VR-10FSM4BNC-20	Mini(SM)Video Converter 4 CH w/Data	Receiver	20Km./FC

Introduction

BELLCOMMS fiber-optic video transceivers series can simultaneously transmit 4 channel of 8-bit digitally encoded broadcast quality video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

Application

1. Intelligent Transportation System
2. Connection of Sub-network for Surveillance Center
3. Public Security Surveillance
4. High Way & Toll Station Surveillance
5. Industrial Closed Circuit Television Surveillance

Specifications

Technical Specification

Video channels	: 1 channel
Video bandwidth	: 8 MHz
Automatic compatible video system	: PAL, NTSC, SECAM
Video input/output impedance	: 75Ω (unbalance)
Video signal-to-noise ratio	: ≥67dB
Differential gain	: (10%-90%APL) DG <1% (typical value)
Differential phase	: (10%-90%APL) DP <0.7° (typical value)
Video connector	: BNC

Fiber optic Specification

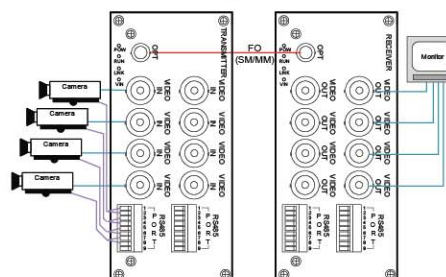
F/O connector	: FC/ST/SC
TX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
RX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
Transmission Distance	: 20KM (singlemode) Operating
Wavelength	: TX1310/RX1550nm (Transmitter); TX1550/RX1310nm (Receiver)
Transmission Distance	: 2KM (multi mode) Operating
Wavelength	: TX850/RX1300nm (Transmitter); TX1300/RX850nm (Receiver)
Data	
Connector	: Terminal Blocks
Encoded type	: RS485 / RS422 / RS232 / Manchester
Data rate	: 0 - 400Kbps
BER	: ≤10-9

Specification of custom-made options

1. Audio
 - Connector : Terminal Blocks
 - Audio input / output impedance : 600Ω (Balance/unbalance)
 - Audio input / output voltage : 2Vp-p (typical value)
 - Audio input / output level : 0dBm (typical value)
 - Video bandwidth : 10HZ~12KHZ
 - Audio digital encoded bandwidth : 24bit
 - Audio signal-to-noise ratio : S/N≥ 95dB (weighted)
2. Telephone
 - Connector : RJ11
 - Bandwidth : 8KHZ
 - Features : Support call-showing function; support H-F
 - Operating mode : Point to point hotline mode / FXS-FXO
3. Ethernet
 - Connector : RJ45
 - Support mode : Half duplex or Full duplex
 - Standards : IEEE802.3
 - Data rate : 10M / 100Mbps
 - Bandwidth : 25M
 - Characteristic
 - Dimensions : 11.1(L)x10.7(W)x2.8(H) cm
 - Operating Voltage : DC5V (we will offer external power supply from AC96-240V to DC5V for each unit)
 - Operating Temperature : -10°C to +65°C
 - Storing Temperature : -45°C to +85°C
 - Humidity : 0 to 95% non-condensing
 - MTBF : ≥105 hours
 - Warranty : 5 years
 - Approvals : FCC,CE, RoHS approvals

Features 1-fiber to 8-BNC

1. 8-bit digitally encoded and non-compression broadcast quality video transmission
2. Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
3. Support any high-resolution video signal
4. Automatic compatible PAL, NTSC and SECAM video system
5. Power supply and other parameter state indication, which can monitor the operation condition of system
6. Support no-damage regenerative trunk of video
7. Constant input optical power, and large dynamic range, no Electrical or Optical Adjustments Required.
8. Special ASIC design.
9. Industry-grade of operating temperature from -10°C to 65°C, which is applied to the different working environment
10. Hot-swap function
11. Stand-alone type or card-type installed in 19" 2U rack-mount chassis.



Order Part No.	Product Description	TX or RX	FO Distance
VT-10FMM8BNC-02	Mini(MM)Video Converter 8 CH w/Data	Transmitter	2Km./FC
VR-10FMM8BNC-02	Mini(MM)Video Converter 8 CH w/Data	Receiver	2Km./FC
VT-10FSM8BNC-20	Mini(SM)Video Converter 8 CH w/Data	Transmitter	20Km./FC
VR-10FSM8BNC-20	Mini(SM)Video Converter 8 CH w/Data	Receiver	20Km./FC

Introduction

BELLCOMMS fiber-optic video transceivers series can simultaneously transmit 8 channel of 8-bit digitally encoded broadcast quality video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

Application

1. Intelligent Transportation System
2. Connection of Sub-network for Surveillance Center
3. Public Security Surveillance
4. High Way & Toll Station Surveillance
5. Industrial Closed Circuit Television Surveillance

Specifications

Technical Specification

Video channels	: 1 channel
Video bandwidth	: 8 MHz
Automatic compatible video system	: PAL, NTSC, SECAM
Video input/output impedance	: 75Ω (unbalance)
Video signal-to-noise ratio	: ≥67dB
Differential gain	: (10%-90%APL) DG <1% (typical value)
Differential phase	: (10%-90%APL) DP <0.7° (typical value)
Video connector	: BNC

Fiber optic Specification

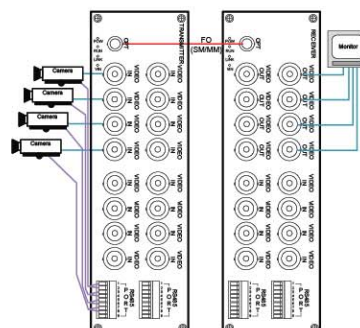
F/O connector	: FC/ST/SC
TX	: Power: -15 ~ -8dBm Sensitivity :≤-35dBm
RX	: Power: -15 ~ -8dBm Sensitivity :≤-35dBm
Transmission Distance	: 20KM (singlemode) Operating
Wavelength	: TX1310/RX1550nm (Transmitter); TX1550/RX1310nm (Receiver)
Transmission Distance	: 2KM (multi mode) Operating
Wavelength	: TX850/RX1300nm (Transmitter); TX1300/RX850nm (Receiver)
Data	
Connector	: Terminal Blocks
Encoded type	: RS485 / RS422 / RS232 / Manchester
Data rate	: 0 - 400Kbps
BER	: ≤10-9

Specification of custom-made options

1. Audio
Connector: Terminal Blocks
Audio input / output impedance: 600Ω(Balance/ unbalance)
Audio input / output voltage: 2Vp-p (typical value)
Audio input / output level: 0dBm (typical value)
Video bandwidth: 10HZ~12KHZ
Audio digital encoded bandwidth: 24bit
Audio signal-to-noise ratio: S/N≥ 95dB (weighted)
2. Telephone
Connector : RJ11
Bandwidth : 8KHZ
Features : Support call-showing function ;support H-F
Operating mode : Point to point hotline mode / FXS-FXO
3. Ethernet
Connector : RJ45
Support mode : Half duplex or Full duplex
Standards : IEEE802.3
Data rate : 10M / 100Mbps
Bandwidth : 25M
Characteristic
Dimensions : 11.1(L)×10.7(W)×2.8(H) cm
Operating Voltage : DC5V (we will offer external power supply from AC96-240V to DC5V for each unit)
Operating Temperature : -10°C to +65°C
Storing Temperature : -45°C to +85°C
Humidity : 0 to 95% non-condensing
MTBF : ≥ 105 hours
Warranty : 5 years
Approvals : FCC,CE, RoHS approvals

Features 1-fiber to 16-BNC

1. 8-bit digitally encoded and non-compression broadcast quality video transmission
2. Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
3. Support any high-resolution video signal
4. Automatic compatible PAL, NTSC and SECAM video system
5. Power supply and other parameter state indication, which can monitor the operation condition of system
6. Support no-damage regenerative trunk of video
7. Constant input optical power, and large dynamic range, no Electrical or Optical Adjustments Required
8. Special ASIC design
9. Industry-grade of operating temperature from -10°C to 65°C, which is applied to the different working environment
10. Hot-swap function
11. Stand-alone type or card-type installed in 19"4U rack-mount chassis



Order Part No.	Product Description	TX or RX	FO Distance
VT-10FMM16BNC-02	Mini(MM)Video Converter 16 CH w/Data	Transmitter	2Km./SFP
VR-10FMM16BNC-02	Mini(MM)Video Converter 16 CH w/Data	Receiver	2Km./SFP
VT-10FSM16BNC-20	Mini(SM)Video Converter 16 CH w/Data	Transmitter	20Km./SFP
VR-10FSM16BNC-20	Mini(SM)Video Converter 16 CH w/Data	Receiver	20Km./SFP

Introduction

BELLCOMMS fiber-optic video transceivers series can simultaneously transmit 16 channels of 8-bit digitally encoded broadcast quality video/return or bidirectional data/unidirectional or bidirectional audio/Ethernet/Telephone/Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

Application

1. Intelligent Transportation System
2. Connection of Sub-network for Surveillance Center
3. Public Security Surveillance
4. High Way & Toll Station Surveillance
5. Industrial Closed Circuit Television Surveillance

Specifications

Technical Specification

Video channels	: 16 channels
Video bandwidth	: 8 MHz
Automatic compatible video system	: PAL, NTSC, SECAM
Video input/output impedance	: 75 Ω(unbalance)
Video signal-to-noise ratio	: ≥67dB
Differential gain	: (10%-90%APL) DG <1% (typical value)
Differential phase	: (10%-90%APL) DP <0.7° (typical value)
Video connector	: BNC

Fiber-optic Specification

F/O connector	: FC/ST/SC
TX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
RX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
Transmission Distance	: 20KM (single mode)
Operating Wavelength	: TX1310/RX1550nm (Transmitter); TX1550/RX1310nm (Receiver)

Data	
Connector	: Terminal Blocks
Encoded type	: RS485 / RS422 / RS232 / Manchester
Data rate	: 0 - 400Kbps
BER	: ≤10-9

Specification of custom-made options

1. Audio
 - Connector: Terminal Blocks
 - Audio input / output impedance: 600Ω(Balance/ unbalance)
 - Audio input / output voltage: 2Vp-p (typical value)
 - Audio input / output level: 0dBm (typical value)
 - Video bandwidth: 10HZ~12KHZ
 - Audio digital encoded bandwidth : 24bit
 - Audio signal-to-noise ratio: S/N≥ 95dB (weighted)
2. Telephone
 - Connector : RJ11
 - Bandwidth : 8KHZ
 - Features : Support call-showing function ;support H-F
 - Operating mode : Point to point hotline mode / FXS-FXO
3. Ethernet
 - Connector : RJ45
 - Support mode : Half duplex or Full duplex
 - Standards : IEEE802.3
 - Data rate : 10M / 100Mbps
 - Bandwidth : 25M
 - Characteristic
 - Dimensions : 11.1(L)×10.7(W)×2.8(H) cm
 - Operating Voltage : DC5V (we will offer external power supply from AC96-240V to DC5V for each unit)
 - Operating Temperature : -10°C to +65°C
 - Storing Temperature : -45°C to +85°C
 - Humidity : 0 to 95% non-condensing
 - MTBF : ≥ 105 hours
 - Warranty : 5 years
 - Approvals : FCC,CE, RoHS approvals

Features 1Fiber to 1/2/4/8/16 Card

1. 8-bit digitally encoded and non-compression broadcast quality video transmission
2. Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
3. Support any high-resolution video signal
4. Automatic compatible PAL, NTSC and SECAM video system
5. Power supply and other parameter state indication, which can monitor the operation condition of system
6. Support no-damage regenerative trunk of video
7. Constant input optical power, and large dynamic range, no Electrical or Optical Adjustments Required
8. Special ASIC design
9. Industry-grade of operating temperature from -10°C to 65°C, which is applied to the different working environment
10. Hot-swap function
11. Stand-alone type or card-type installed in 19"4U rack-mount chassis



Product	Order Part No.	Product Description	TX or RX	FO Distance
	VT-10FMM1BNC-02C	Mini(MM)Video Converter 1 CH w/Data	Transmitter	2Km./FC
	VR-10FMM1BNC-02C	Mini(MM)Video Converter 1 CH w/Data	Receiver	2Km./FC
	VT-10FSM1BNC-20C	Mini(SM)Video Converter 1 CH w/Data	Transmitter	20Km./FC
	VR-10FSM1BNC-20C	Mini(SM)Video Converter 1 CH w/Data	Receiver	20Km./FC
	VT-10FMM2BNC-02C	Mini(MM)Video Converter 2 CH w/Data	Transmitter	2Km./FC
	VR-10FMM2BNC-02C	Mini(MM)Video Converter 2 CH w/Data	Receiver	2Km./FC
	VT-10FSM2BNC-20C	Mini(SM)Video Converter 2 CH w/Data	Transmitter	20Km./FC
	VR-10FSM2BNC-20C	Mini(SM)Video Converter 2 CH w/Data	Receiver	20Km./FC
	VT-10FMM4BNC-02C	Mini(MM)Video Converter 4 CH w/Data	Transmitter	2Km./FC
	VR-10FMM4BNC-02C	Mini(MM)Video Converter 4 CH w/Data	Receiver	2Km./FC
	VT-10FSM4BNC-20C	Mini(SM)Video Converter 4 CH w/Data	Transmitter	20Km./FC
	VR-10FSM4BNC-20C	Mini(SM)Video Converter 4 CH w/Data	Receiver	20Km./FC
	VT-10FMM8BNC-02C	Mini(MM)Video Converter 8 CH w/Data	Transmitter	2Km./FC
	VR-10FMM8BNC-02C	Mini(MM)Video Converter 8 CH w/Data	Receiver	2Km./FC
	VT-10FSM8BNC-20C	Mini(SM)Video Converter 8 CH w/Data	Transmitter	20Km./FC
	VR-10FSM8BNC-20C	Mini(SM)Video Converter 8 CH w/Data	Receiver	20Km./FC
	VT-10FMM16BNC-02C	Mini(MM)Video Converter 16 CH w/Data	Transmitter	2Km./FC
	VR-10FMM16BNC-02C	Mini(MM)Video Converter 16 CH w/Data	Receiver	2Km./FC
	VT-10FSM16BNC-20C	Mini(SM)Video Converter 16 CH w/Data	Transmitter	20Km./FC
	VR-10FSM16BNC-20C	Mini(SM)Video Converter 16 CH w/Data	Receiver	20Km./FC

Introduction

BELLCOMMS fiber-optic video transceivers series can simultaneously transmit 1,2,4,8 and 16 channels of 8-bit digitally encoded broadcast quality video/return or bidirectional data/unidirectional or bidirectional audio/Ethernet/Telephone/Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

Application

1. Intelligent Transportation System
2. Connection of Sub-network for Surveillance Center
3. Public Security Surveillance
4. High Way & Toll Station Surveillance
5. Industrial Closed Circuit Television Surveillance

Specifications

Technical Specification

Video channels	: 1,2,4,8,16 channels
Video bandwidth	: 8 MHz
Automatic compatible video system	: PAL, NTSC, SECAM
Video input/output impedance	: 75 Ω(unbalance)
Video signal-to-noise ratio	: ≥67dB
Differential gain	: (10%-90%APL) DG <1% (typical value)
Differential phase	: (10%-90%APL) DP <0.7° (typical value)
Video connector	: BNC

Fiber-optic Specification

F/O connector	: FC/ST/SC
TX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
RX	: Power:-15 ~ -8dBm Sensitivity :≤-35dBm
Transmission Distance	: 20KM (single mode)
Operating Wavelength	: TX1310/RX1550nm (Transmitter); TX1550/RX1310nm (Receiver)

Data Connector	: Terminal Blocks
Encoded type	: RS485 / RS422 / RS232 / Manchester
Data rate	: 0 - 400Kbps
BER	: ≤10-9

Specification of custom-made options

1. Audio
 - Connector: Terminal Blocks
 - Audio input / output impedance: 600Ω(Balance/ unbalance)
 - Audio input / output voltage: 2Vp-p (typical value)
 - Audio input / output level: 0dBm (typical value)
 - Video bandwidth: 10HZ~12KHZ
 - Audio digital encoded bandwidth : 24bit
 - Audio signal-to-noise ratio: S/N≥ 95dB (weighted)
2. Telephone
 - Connector : RJ11
 - Bandwidth : 8KHZ
 - Features : Support call-showing function ;support H-F
 - Operating mode : Point to point hotline mode / FXS-FXO
3. Ethernet
 - Connector : RJ45
 - Support mode : Half duplex or Full duplex
 - Standards : IEEE802.3
 - Data rate : 10M / 100Mbps
 - Bandwidth : 25M
 - Characteristic Dimensions : 11.1(L)×10.7(W)×2.8(H) cm
 - Operating Voltage : DC5V (we will offer external power supply from AC96-240V to DC5V for each unit)
 - Operating Temperature : -10°C to +65°C
 - Storing Temperature : -45°C to +85°C
 - Humidity : 0 to 95% non-condensing
 - MTBF : ≥ 105 hours
 - Warranty : 5 years
 - Approvals : FCC,CE, RoHS approvals

Features Chassis Video Card

SPECIFICATIONS

1. Available Module Slots : 16
2. Video converters module adapted : 8 video or 8video+1 return/bidirectional data or 8video + 1 audio
3. Power in : AC 100 V~260 V
4. Power out : DC5V 20A
5. Dimensions : L482.6 ,W313.5,H177 mm; 19 inches 4U
6. Shipping Weight : 7.4Kg

ENVIRONMENTAL

- Construction : Aluminum
 MTBF : > 100,000 hours
 Operating Temp : -30° C to +50° C
 Storage Temp : -40° C to +85° C
 Relative Humidity : 0% to 95% (non condensing)



Order Part No.	Product Description
CH-16SLOTCHA-16-4U	16-Slots 4U Chassis for Video Converter Card w/redundant AC poer module support 2,4,8 Video Card
CH-16SLOTCHA-16-2U	16-Slots 2U Chassis for Video Converter Card w/redundant AC poer module support only 1 Video Card

Introduction

PRODUCT OVERVIEW

The 4U Chassis can accommodate a combination of up to 16 pieces 4 channel video modules and video/data modules. The chassis employs a 110/220 VAC Switch Mode Power Supply(SMPS) design, which reduces the possibility of a single module failure causing a shutdown or a major failure of other modules within the chassis. The high reliability and stability ensures that if one module shuts down, the operation of the other modules remains unimpaired. One or two air-cooling fans are installed inside to further strengthen the superior performance of the system and eliminate the necessity for periodic maintenance. Status information can be read through the LED indicators on the installed modules. All of the modules installed in the chassis are hot swappable, which makes it unnecessary to power-down the chassis when replacing modules.

Application

1. Redundant AC Power Supply Module
2. Highest support 128ports BNC
3. Hot swappable,not powerdown replace module
4. Selectable 110 or 220V of supply

Ethernet Surge Protector

FEATURES

1. IEC61000-4-5 and ITU-TK20&K21
2. The high response surge arresters
3. Clamping voltage and low loss against high speed signal
4. Designed by theory of current limited and voltage clamped, discharged to ground
5. Standard:10Base-T/100Base-TX



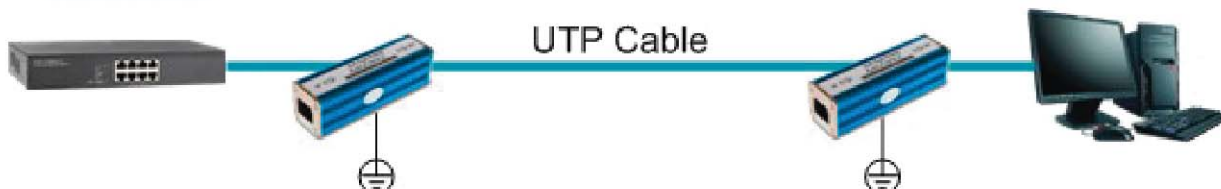
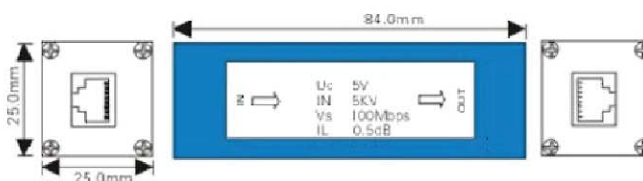
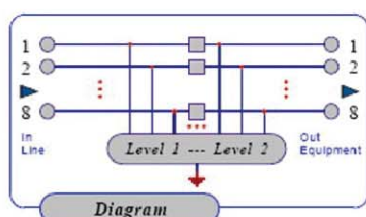
Order Part No.	Product Description
BC-5010	Ethernet Surge Protector

Introduction

IEC61000-4-5 and ITU-TK20&K21 are the recognized standards for top quality surge protectors,It made by the high response surge arresters, the advantage allow clamping voltage and low loss against high speed signal, because it has a low capacitance. Designed to protect data communication lines in local and wide area networks up to 100Base-T transmission speeds.

Circuit Diagrams

Designed by the theory of current limited and voltage clamped, discharged to ground. When the data line exist surge, It is induced and worked ,the lightning energy is discharged to ground, and the high surge voltage is clamped to low level, so our devices is protected.



Application

Usually is use in protecting the following device as below
 Ethernet Exchange
 Ethernet HUB or Switch
 Router
 Computer
 Industrial control Device
 Net Server for Video system

Specifications

Standard	: 10Base-T/100Base-T standard
10/100M signal	: IEC6100-4-5 and ITU-TK20&21
Nominal discharge current(In)	: 5 KA(8/20μS)
Working voltage	: 0-5V
Limit voltage	: ≤40V
Apply Band rate	: 100Mbps
Connector	: RJ45 (F)
The line of protection	: 4 lines (1, 2, 3, 6)
Insert consumption	: ≤0.5dB
Delay time	: ≤1ns
Working temperature	: -20 to 60°C
Storage temperature	: -25 to 85°C
Humidity	: Relative humidity 5% to 95% No power supply needed, No consumption
LxWxH	: 72mmx42mmx25mm
Shel	: Alnico
Color	: Blue
Weight	: 10g
Warranty	: 5 years
Approvals	: FCC, CE, RoHS approvals

Video Surge Protection

FEATURES

1. IEC61000-4-5 and ITU-TK20&K21
2. Clamping voltage and low loss against high speed signal
3. Low capacitance. Designed to protect the equipment and coaxial line, connect in series
4. Interface accord with BNC standard



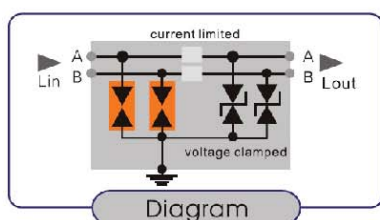
Order Part No.	Product Description
BC-5052	Video Surge Protector

Introduction

IEC61000-4-5 and ITU-TK20&K21 are the recognized standards for top quality surge protectors. It made by the high response surge arresters, the advantage is allowed clamping voltage and low loss against high speed signal, because it had a low capacitance. Designed to protect the equipment and coaxial line, connect in series. Interface accord with BNC standard.

Circuit Diagrams

Designed by the theory of current limited and voltage clamped, discharged to ground. When the signal line exist surge, It is induced and worked ,the lightning energy is discharged to ground, and the high surge voltage is clamped to low level, so our devices is protected.



Application

Usually is use in protecting the following device as below
 Ethernet Exchange
 Ethernet HUB or Switch
 Router
 Computer
 Industrial control Device
 Net Server for Video system

Specifications

Standard	: 10Base-T/100Base-T standard
10/100M signal	: IEC6100-4-5 and ITU-TK20&21
Nominal discharge current(In)	: 5 KA(8/20μS)
Working voltage	: 0-5V
Limit voltage	: ≤40V
Apply Band rate	: 100Mbps
Connector	: RJ45 (F)
The line of protection	: 4 lines (1, 2, 3, 6)
Insert consumption	: ≤0.5dB
Delay time	: ≤1ns
Working temperature	: -20 to 60°C
Storage temperature	: -25 to 85°C
Humidity	: Relative humidity 5% to 95% No power supply needed, No consumption
LxWxH	: 72mmx42mmx25mm
Shel	: Alnico
Color	: Blue
Weight	: 10g
Warranty	: 5 years
Approvals	: FCC, CE, RoHS approvals

RS-485 Surge Protector

FEATURES

1. Three stages of protection on every data line
2. Protected signal ground connection
3. Easy to install, plug-and-play
4. 4500V surge protection



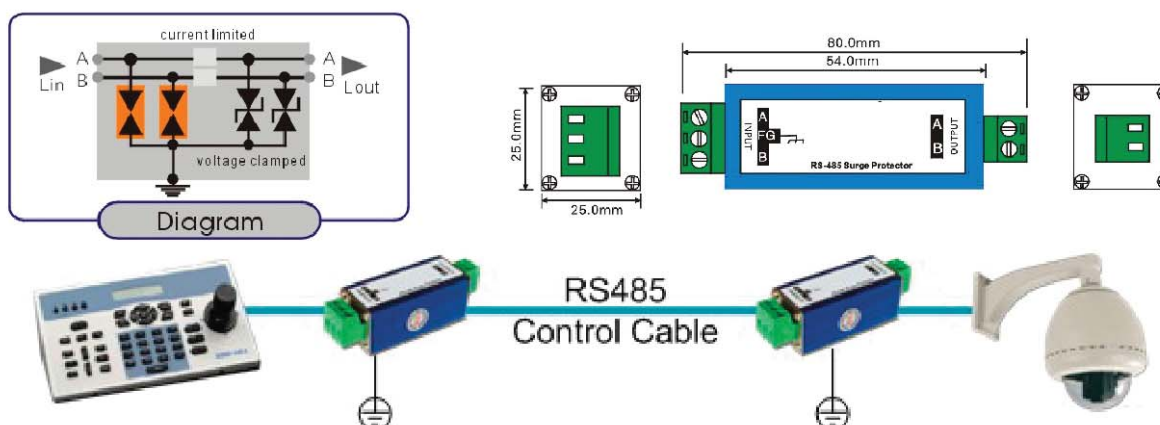
Order Part No.	Product Description
BC-5053	RS-485 Surge Protector

Introduction

IEC61000-4-5 and ITU-TK20&K21 are the recognized standards for top quality surge protectors. It has high response speed, low output residual voltage, ascendance transfer performance. All have #10 ground screws which must be connected to a solid ground.

Circuit Diagrams

Designed by the theory of current limited and voltage clamped, discharged to ground. When the data line exists a surge, it is induced and worked, the lightning energy is discharged to ground, and the high surge voltage is clamped to a low level, so our



Specifications

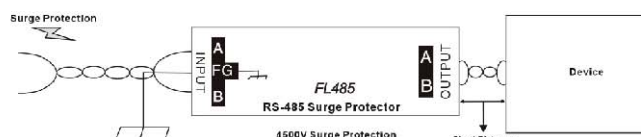
Standard	: Accord EIA RS-485 standard
RS485 signal	: IEC6100-4-5 and ITU-TK20&21
Working voltage	: 0-5V
Limit voltage	: <15V
Apply Band rate	: 1Mbps
Isolate signal	: TXD, RXD, GND
Connector	: Standard industrial terminal block
Insert consumption	: <0.5dB
Delay time	: <1ns

Environment

Working temperature	: -20 to 60
Storage temperature	: -25 to 85
Humidity	: Relative humidity 5% to 95%

Power

Input powered	: No power supply needed
Consumption	: No consumption



Dimension

LxWxH	: 80mmx25mmx22mm
Shell	: Alnico
Color	: Blue
Weight	: 10g
Warranty	: 5 years
Approvals	: FCC, CE, RoHS approvals

CCTV Balun Video+Power+Data

FEATURES

1. No need to provide power
2. Transmit video, power (AC24V/ DC12V) and data signal (Control) simultaneously via CAT5 or CAT6
3. Built-in transient protection, excellent anti-interference ability
4. RJ-45 terminal, easy installation

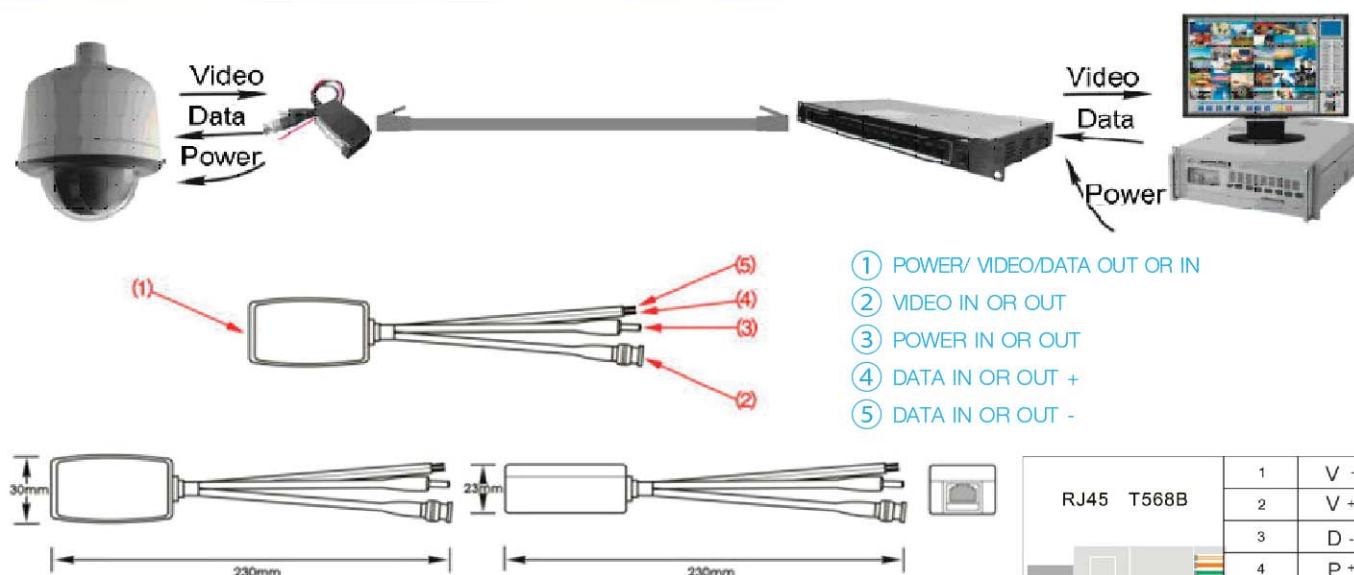


Order Part No.	Product Description
BC-5054	CCTV Balun Video+Power+Data

Introduction

Able to transmit video, power and Data(Control) through UTP Cable simultaneously. This balun is the solution for customer need to save both cost and time for wiring camera, maximum wiring with Cat6(22AWG) cable length at 1219 meters with Power Supply Voltage 28 VAC or see as detail below table

Product Terminal and Dimension Introduction



Product Installation Instructions:

- Pay much attention to RJ-45 pin description and line order
- Selected a pair of UTP Cable (must be same color) connect to the transmitter VIDEO +/- port and receiver VIDEO +/- port
- Power transmission distance table is as follow:

Order Part No.	Product Description	TX or RX	FO Distance
Power Supply Voltage	28 VAC	24 VAC	12 VDC
Resultant Camera Voltage	21 VAC	21 VAC	11.5 VAC
100 mA B&W Camera			
Cat 5 (24 AWG)	762m (2,500ft)	300m (1,000ft)	53m (175ft)
Cat 6 (22 AWG)	1,219m (4,000ft)	457m (1,500ft)	91m (300ft)
300 mA Color Camera			
Cat 5 (24 AWG)	259m (850ft)	107m (350ft)	16m (50ft)
Cat 6 (22 AWG)	427m (1,400ft)	183m (600ft)	31m (100ft)
1 Amp P/T/Z Camera			
Cat 5 (24 AWG)	76m (76.2ft)	31m (100ft)	4.6m (15ft)
Cat 6 (22 AWG)	122m (400ft)	46m (150ft)	9.1m (30ft)

CCTV Balun Video+Power+Data

FEATURES

1. No need to provide power
2. Transmit video and power (AC24V/ DC12V) simultaneously via CAT5 or CAT6
3. Built-in transient protection, excellent anti-interference ability
4. RJ-45 terminal, easy installation

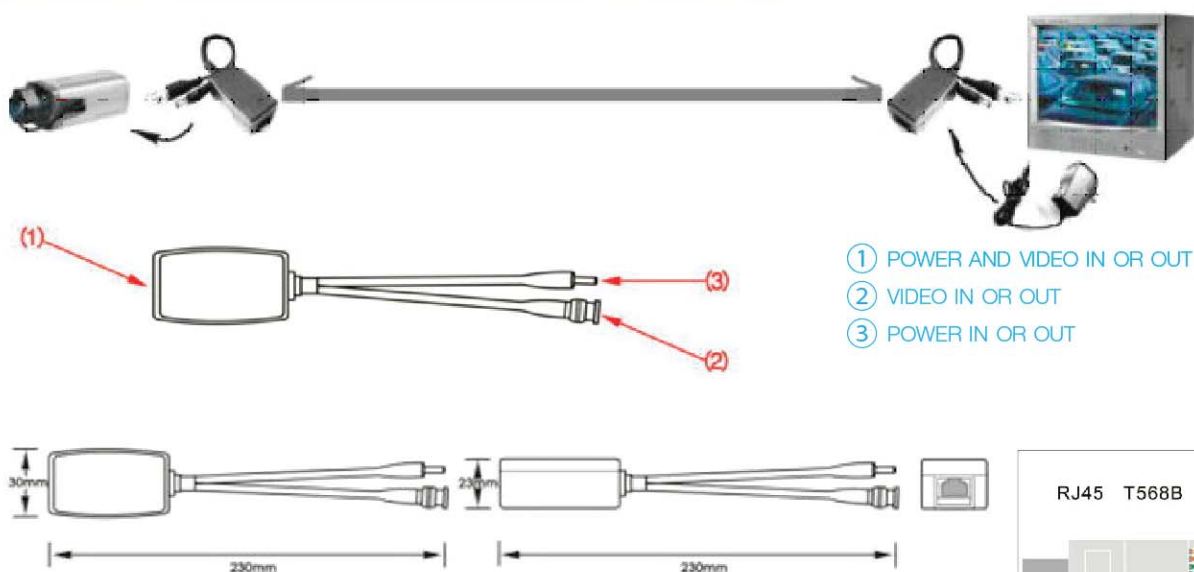


Order Part No.	Product Description
BC-5055	CCTV Balun Video + Power

Introduction

Able to transmit video and power through UTP Cable simultaneously. This balun is the solution for customer need to save both cost and time for wiring camera, maximum wiring with Cat6(22AWG) cable length at 1219 meters with Power Supply Voltage 28 VAC or see as detail below table

Product Terminal and Dimension Introduction



Product Installation Instructions:

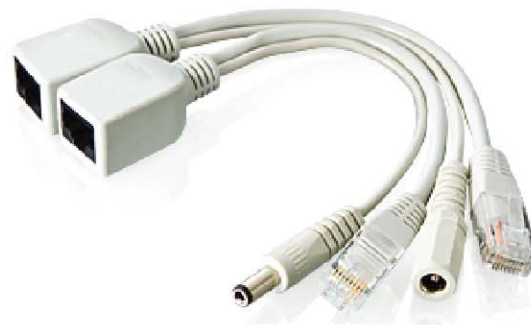
- Pay much attention to RJ-45 pin description and line order
- Selected a pair of UTP Cable (must be same color) connect to the transmitter VIDEO +/- port and receiver VIDEO +/- port
- Power transmission distance table is as follow:

RJ45 T568B			
1	V -		
2	V +		
3	D -		
4	P +		
5	P -		
6	D +		
7	P -		
8	P +		

Order Part No.	Product Description	TX or RX	FO Distance
Power Supply Voltage	28 VAC	24 VAC	12 VDC
Resultant Camera Voltage	21 VAC	21 VAC	11.5 VAC
100 mA B&W Camera			
Cat 5 (24 AWG)	762m (2,500ft)	300m (1,000ft)	53m (175ft)
Cat 6 (22 AWG)	1,219m (4,000ft)	457m (1,500ft)	91m (300ft)
300 mA Color Camera			
Cat 5 (24 AWG)	259m (850ft)	107m (350ft)	16m (50ft)
Cat 6 (22 AWG)	427m (1,400ft)	183m (600ft)	31m (100ft)
1 Amp P/T/Z Camera			
Cat 5 (24 AWG)	76m (76.2ft)	31m (100ft)	4.6m (15ft)
Cat 6 (22 AWG)	122m (400ft)	46m (150ft)	9.1m (30ft)

PoE Splitter Cable

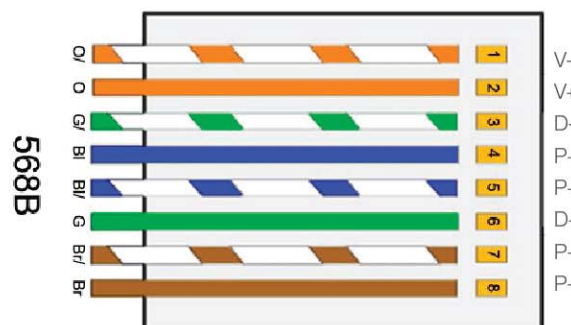
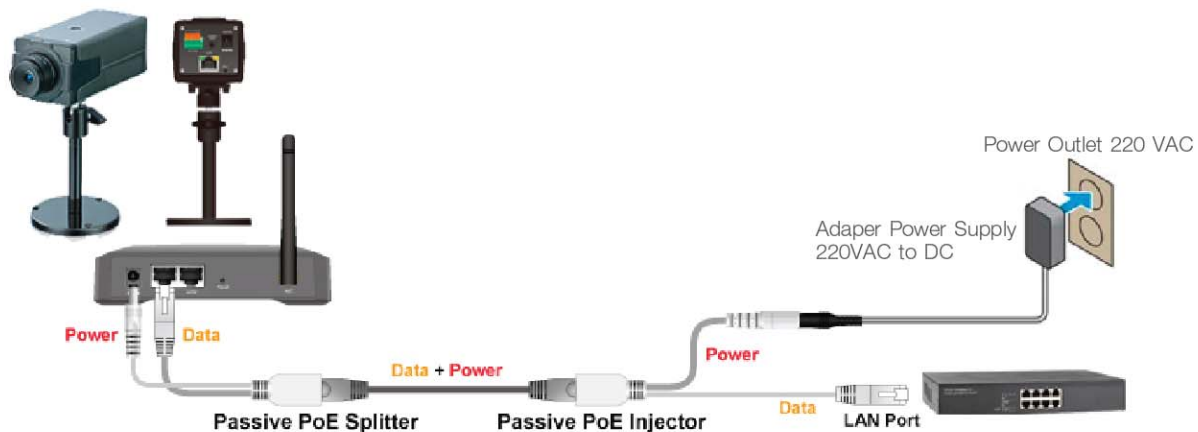
Interface	Data pin: 1,2,3,6 Power pin: 4, 5, 7, 8 (12~57V)
Case of material	PVC
Network cable	T IA/EIA 568 Cat. 5
Ethernet data rate	10/100 Mbps
Ethernet cable connector	RJ-45
Operating Temperature	0°C - 40°C (32°F - 104°F)
Storage temperature	-40°C - 70°C (-40°F - 158°F)
Operating Humidity	10% ~ 80% (non-condensing)
Storage Humidity	5% ~ 90% (non-condensing)
Product Weight (g)	55 g
Dimensions	(L x W x H (mm) 210 x 19 x 19 mm)



Order Part No.	Product Description
POE-0921	POE Splitter Cable 9-24V (Data + Power Plug & Jack 2.1mm) 1set 2pcs male+feemate
POE-0924	POE Splitter Cable 9-24V (Data + Power Plug & Jack 2.5mm) 1set 2pcs male+feemate

Introduction

PoE splitter Cable is a passive Power over Ethernet kit, including one passive splitter and one passive injector. It provides the most convenient and cost effective way for you to make PoE application, you do not worry about how to find power outlet when using AP or IPCam. It uses the power adapter that comes with your network device. There is no need for special PoE power adapter.



2 channel video multiplexer BC-921T/R

FEATURES

1. High-speed Frequency Division Multiplexing technology is adopted. Therefore, several channels of signals can be multiplexed without transmission delay or interference.
2. The knob for adjusting transmission distance built in the Receiver support adjustments according to actual transmission distance for best signal output.
3. Built-in video adjusting button in the Transmitter can cooperate with different video cameras.
4. With energy-saving circuit to achieve best energy efficiency ratio



Order Part No.	Product Description
BC-921T	2-channel Video Multiplexer Transmitter
BC-941R	2-channel Video Multiplexer Receiver

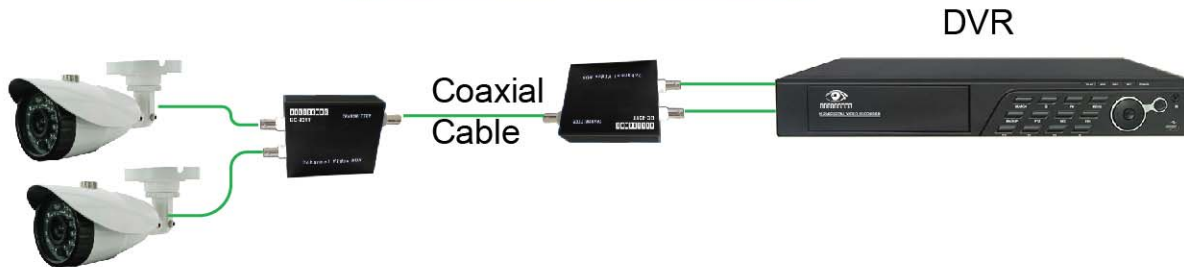
Introduction

This series of products support multi-channel video signals in one coaxial cable by way of Frequency Division Multiplexing, with all data transmission real-time and all images high-definition and non-delay.

Technical Parameters

Output / Input Level	: Transmitter 105dB, Receiver 75~95dB
Input / Output Impedance	: 75Ω (Unbalanced)
Bandwidth	: 8MHz
Input / Output Amplitude	: 1Vpp
Connector	: BNC
Power Supply	: DC12V/500mA
Installation Volume	: 77*66*27mm

2 Channel Wiring



4 channel video multiplexer BC-941T/R

FEATURES

1. High-speed Frequency Division Multiplexing technology is adopted so that several channels of signals can be multiplexed without transmission delay or interference.
2. The knob for adjusting transmission distance built in the Receiver support adjustments according to actual transmission distance for best signal output.
3. Built-in video adjusting button in the Transmitter can cooperate with different video cameras.
4. With energy-saving circuit to achieve best energy efficiency ratio



Order Part No.	Product Description
BC-941T	4-channel Video Multiplexer Transmitter
BC-941R	4-channel Video Multiplexer Receiver

Introduction

This series of products support multi-channel video signals and control data RS485 in one coaxial cable by way of Frequency Division Multiplexing, with all data transmission real-time and all images high-definition and non-delay.

Technical Parameters

Transmitter

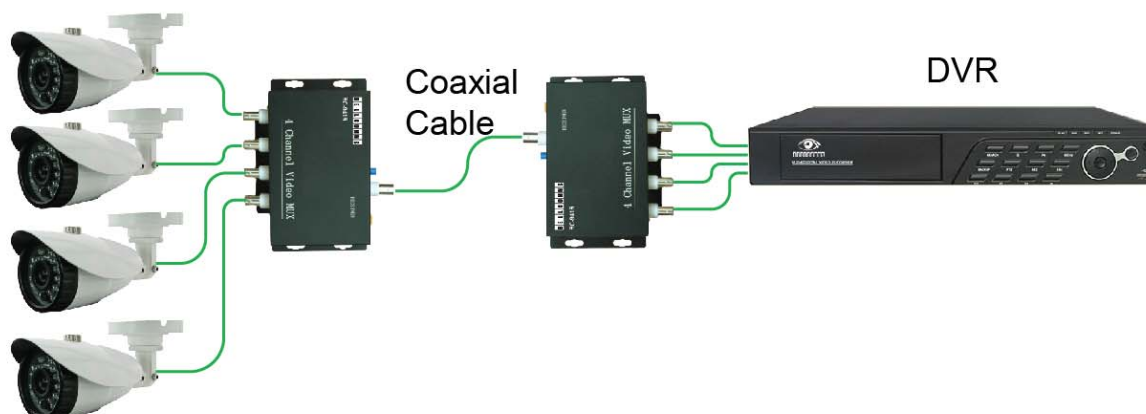
VIDEO 1,Signal Output Intensity 105db
 VIDEO 2,Central Frequency 30MHZ,Signal Output Intensity 105db
 VIDEO 3,Central Frequency 30MHZ,Signal Output Intensity 105db
 VIDEO 4,Central Frequency 46MHZ,Signal Output Intensity 105db

Video Compensation : Unadjustable adjustable
 Video Input Impedance : 75Ω (Unbalanced)
 Video Input Amplitude : 0.8-1.5VPP
 Video Format : PAL, SECAM, NTSC
 Video Interface : White Bakelite Base
 Signal Bandwidth : 8MHZ
 Power Supply : DC12V 1A

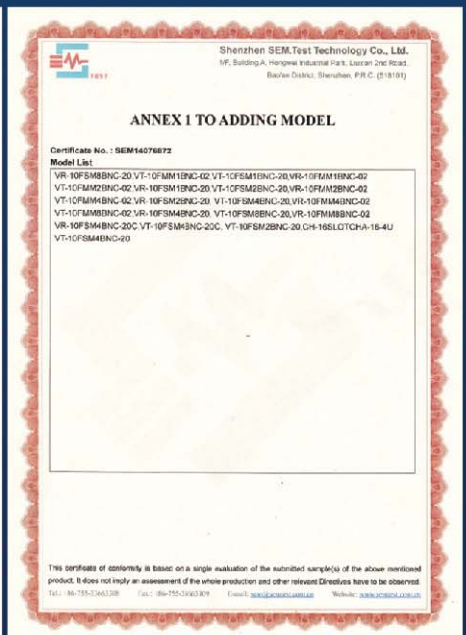
Receiver

Signal Output Amplitude : 0.9-1.1VPP
 Output Polarity : Positive Polarity
 Output Impedance : 75Ω (Unbalanced)
 Power Supply : DC12V
 485 Output Parameter Switch with VIDEO 1
 Chip Applied : SN75176
 Quantity of Node Supported : 32
 Internal 120Ω Impedance : No, externally equipped.
 PTC Protection : Yes
 Baud Rate : 300-57600bps
 Interface : Double Aviation Jack
 Indicator : Green Data Indicator

4 Channel Wiring



ผลิตภัณฑ์ BELLCOMMS ได้รับการรับรองมาตรฐาน CE & FCC อย่างเป็นทางการ



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