

RANCENT TECHNOLOGIES

*Premier Supplier In Fiber Optic
and Ethernet Network Solutions*

PRODUCT GUIDE



www.racent.com

*Standard or Tailored Fiber Optic
Communication Products*

Ethernet Over Fiber

Video Over Fiber

IP Surveillance

Accessories

Company Overview

At Rancent Technologies We Deliver
High-Performing and Cost-Effective
Fiber Connectivity Solutions

Rancent Technologies is a premier and reliable supplier for high-quality and cost-effective transmission products and solutions of video, audio, data, contact closure and Ethernet for most mission critical applications in a wide variety of industries such as security, ITS, energy, industrial, broadcast and education.

For over 15 years, Rancent has been trusted to deliver superior communication and CCTV solutions to global customers based on innovative and advanced optical fiber and IP technology. Rancent's connectivity product line consists of both analog and HD analog video transmission products for traditional CCTV applications as well as a broad range of fiber optic Ethernet transmission products for IP Surveillance. The traditional solution is focused on the standard or tailored point-to-point fiber optic transmission of video, audio, data and contact closure over multimode or single mode fiber. And Rancent Ethernet network solutions cover a full range of commercial and industrial media converters as well as network switches ranging from fast to gigabit Ethernet designed to transmit IP cameras and PTZs in simple video security links or sophisticated CCTV networks.

In addition, we cater for ever-growing market demands of analog to IP migration by developing a complete series of HD analog and IP video surveillance products including cameras, PTZs and NVRs oriented for most cost and effective video security applications.



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Ethernet Over Fiber

Commercial Ethernet

Rancent offers many different variations of high-performing and cost-effective Media Converters and Ethernet Switches designed for use in commercial operating environments. All the models are environmentally hardened with no electrical or optical adjustments (Plug and Play). The product line consists of one and two fixed SC and ST optical connector models as well as 10/100TX and Gigabit models that utilize SFP optical interfaces for maximum configuration versatility.



Typical Applications

- Any network utilizing a mix of copper and fiber
- Industrial IP connectivity and communication
- Copper to fiber media converter/Ethernet switch
- Networks using Ethernet devices such as network cameras, access control, intercoms, etc

Product Features

- 10/100Base-T Fast Ethernet or 10/100/1000Base-T Gigabit Ethernet RJ-45 Port
- 100Base-FX Optical Port or 1000Base-SX/LX/EX/BX SFP Type Slot
- Complies with IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX; and IEEE 802.3ab 1000Base-T
- RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- Prevents Packet Loss w/Back Pressure (Half-Duplex) and IEEE 802.3x PAUSE Frame Flow Control (Full-Duplex)
- Available for ST, SC or LC (SFP) optical connector
- Flexible optical and copper-based configuration via SFP plug-in modules
- Singlemode or multimode fiber over a variety of link budget
- Available for operation over 1 or 2 fibers
- No in-field optical adjustment required

10/100Base-Tx to 100Base-Fx Media Converter

The Rancent RC-FE1 media converter series are one-channel Ethernet electrical to optical media converters. These auto-negotiating devices accept a 10/100 Mbps electrical input and convert this to a 100 Mbps optical output.



10/100Base-Tx to 100Base-Fx Media Converter

The Rancent RC-FE2 media converter series are two-channel Ethernet electrical to optical media converters. These auto-negotiating devices accept two 10/100 Mbps electrical inputs and convert these to a 100 Mbps optical output.



10/100Base-Tx to 100Base-Fx Switching Type Media Converter

The Rancent RC-FE4 media converter series are four-channel Ethernet electrical to optical media converters. These auto-negotiating devices accept four 10/100 Mbps electrical inputs and convert these to a 100 Mbps optical output.



10/100/1000Base-T to Gigabit SFP Media Converter

The Rancent RC-GE1-SFP media converter series are one-channel Ethernet electrical to optical media converters. These auto-negotiating devices accept a 10/100/1000 Mbps electrical input and convert this to a 1000 Mbps SFP optical output.



10/100/1000Base-T to Gigabit SFP 4 port Ethernet Switch

The Rancent RCGE2F2-SFP series are two-channel Ethernet electrical to optical Ethernet switches. These auto-negotiating devices accept two 10/100/1000 Mbps electrical inputs and convert these to two 1000 Mbps optical outputs.



10/100/1000Base-T to Gigabit SFP 5 port Ethernet Switch

The Rancent RCGE4-SFP series are four-channel Ethernet electrical to optical Ethernet switches. These auto-negotiating devices accept four 10/100/1000 Mbps electrical inputs and convert these to a 1000 Mbps optical output.



Ethernet Over Fiber

Industrial Ethernet

Rancent Industrial Grade Fast//Gigabit Series Ethernet Switches are equipped with 10/100M or 10/100/1000M RJ45 ports and 100M or 1000M SFP fiber ports that extend existing networks over one or two multimode or singlemode fibers. Housed in rugged DIN rail or wall mountable enclosures, these switches exceed the specifications of commercial switching products with industrial safety standards for harsh environments.



Typical Applications

- Any network utilizing a mix of copper and fiber
- Industrial IP connectivity and communication
- Self-healing Gigabit Ethernet backbone networks
- Networks using Ethernet devices such as network cameras, access control, intercoms, etc

Product Features

- 10/100Base-T Fast Ethernet or 10/100/1000Base-T Gigabit Ethernet RJ-45 Port
- 100Base-FX Optical Port or 1000Base-SX/LX/EX/BX SFP Type Slot
- Non-blocking store-and-forward switching
- RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- Prevents Packet Loss w/Back Pressure (Half-Duplex) and IEEE 802.3x PAUSE Frame Flow Control (Full-Duplex)
- Available for operation in Ring or point-to-point configuration
- Available for operation over singlemode or multimode fiber over a variety of link budget
- Redundant dual power supply inputs 48/52 VDC
- 4KV Ethernet Surge Protection for harsh environment
- -40°C to 80°C (-40°F to 176°F) wide range operating temperature
- Compact, corrosion resistant case attaches to a standard DIN Rails

1x 10/100Base-TX and 1x 100Base-FX SFP Ethernet Switch

The Rancent RCFE1F1-IND is a cost-effective Industrial Unmanaged Fast Ethernet Switch equipped with one 10/100Mbps RJ45 ports and one 100Mbps SFP (fiber) port. Housed in wall mountable enclosures, the switches are well suited for harsh environments.



2x 10/100Base-TX and 1x 100Base-FX SFP Ethernet Switch

The Rancent RCFE2F1-IND is a cost-effective Industrial Unmanaged Fast Ethernet Switch equipped with two 10/100Mbps RJ45 ports and one 100Mbps SFP (fiber) port. Housed in wall mountable enclosures, the switches are well suited for harsh environments.



2x 10/100Base-TX and 2x 100Base-FX SFP Ethernet Switch

The Rancent RCFE2F2-IND is a cost-effective Industrial Unmanaged Fast Ethernet Switch equipped with two 10/100Mbps RJ45 ports and two 100Mbps SFP (fiber) ports. Housed in wall mountable enclosures, the switches are well suited for harsh environments.



4x 10/100/1000Base-TX and 2x 1000Base-FX SFP Ethernet Switch

The RCGE4F2-IND is an Industrial Gigabit Unmanaged Ethernet Switch equipped with four 10/100/1000Mbps RJ45 ports and two 1000M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission. Housed in wall mountable enclosures, the switches are well suited for harsh environments.



6x 10/100/1000Base-TX and 2x 1000Base-FX SFP Ethernet Switch

The RCGE6F2-IND is an Industrial Gigabit Unmanaged Ethernet Switch equipped with six 10/100/1000Mbps RJ45 ports and two 1000M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission. Housed in wall mountable enclosures, the switches are well suited for harsh environments.



8x 10/100/1000Base-TX and 2x 1000Base-FX SFP Ethernet Switch

The RCGE8F2-IND is an Industrial Gigabit Unmanaged Ethernet Switch equipped with eight 10/100/1000Mbps RJ45 ports and two 1000M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission. Housed in wall mountable enclosures, the switches are well suited for harsh environments.



Ethernet Over Fiber

Managed Ethernet

Rancent Industrial Grade Managed Ethernet Switches are equipped with 10/100M or 10/100/1000M RJ45 ports and 100M or 1000M SFP fiber ports. The Industrial Managed Switches are fully managed Layer 2 switches not only incorporating the industry standard Rapid Spanning Tree Protocol (IEEE 802.1w RSTP), but also a rapid ring recovery protocol enabling operational network recovery in the event of a network or power system failure.



Typical Applications

- Any network utilizing a mix of copper and fiber
- Industrial IP connectivity and communication
- Self-healing Gigabit Ethernet backbone networks
- Networks using Ethernet devices such as IP CCTV cameras, access control, VoIP telephony.

Product Features

- 10/100Base-T Fast Ethernet or 10/100/1000Base-T Gigabit Ethernet RJ-45 Port
- 100Base-FX Optical Port or 1000Base-SX/LX/EX/BX SFP Type Slot
- Non-blocking store-and-forward switching
- RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- Prevents Packet Loss w/Back Pressure (Half-Duplex) and IEEE 802.3x PAUSE Frame Flow Control (Full-Duplex)
- Available for operation in Ring or point-to-point configuration
- Redundant dual power supply inputs 48/52 VDC
- 4KV Ethernet Surge Protection for harsh environment
- -40°C to 80°C (-40°F to 176°F) wide range operating temperature
- Real-time monitoring via Embedded Surveillance Device Management System
- Compact, corrosion resistant case attaches to a standard DIN Rails

Managed 4x100/100Base-TX and 2x100Base-FX Ethernet Switch

The Rancent RCINFE4F2-MS is an Industrial Layer 2 Managed Switch equipped with four 10/100Mbps RJ45 ports and two 100M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission.



Managed 6x100/100Base-TX and 2x100Base-FX Ethernet Switch

The Rancent RCINFE6F2-MS is an Industrial Layer 2 Managed Switch equipped with six 10/100Mbps RJ45 ports and two 100M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission.



Managed 8x100/100Base-TX and 2x100Base-FX Ethernet Switch

The Rancent RCINFE8F2-MS is an Industrial Layer 2 Managed Switch equipped with eight 10/100Mbps RJ45 ports and two 100M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission.



Managed 8x10/100/1000Base-T and 2x1G Ethernet Switch

The Rancent RCINGE8F2-MS is an Industrial Layer 2 Managed Switch equipped with eight 10/100/1000Mbps RJ45 ports and two 1000M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission.



Managed 12x10/100/1000Base-T and 8x1G Ethernet Switch

The Rancent RCINGE12F8-MS is an Industrial Layer 2 Managed Switch equipped with twelve 10/100/1000Mbps RJ45 ports and eight 1000M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission.



Managed 12x10/100/1000Base-T and 10x1G Ethernet Switch

The Rancent RCINGE12F10-MS is an Industrial Layer 2 Managed Switch equipped with twelve 10/100/1000Mbps RJ45 ports and ten 1000M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission.



Ethernet Over Fiber

Power Over Ethernet

Rancent Industrial Grade PoE/PoE+ Ethernet Switches are equipped with 10/100M or 10/100/1000M RJ45 ports with PoE+ (30w) capabilities and 100M/1000M SFP fiber ports that extend existing networks over multimode/singlemode fibers. Many applications require power from the Power Sourcing Equipment (PSE) device be supplied through the Ethernet cables including those where Electrical-to-Optical Ethernet Switches are being used to extend distances.



Typical Applications

- Any network utilizing a mix of copper and fiber
- Industrial IP connectivity and communication
- Self-healing Gigabit Ethernet backbone networks
- Networks using Ethernet devices such as IP CCTV cameras, access control, VoIP telephony.

Product Features

- 10/100Base-T Fast Ethernet or 10/100/1000Base-T Gigabit Ethernet RJ-45 Port
- 100Base-FX Optical Port or 1000Base-SX/LX/EX/BX SFP Type Slot
- Complies w/IEEE 802.3-af/802.3-at Power over Ethernet End-Span PSE
- Prevents Packet Loss w/Back Pressure (Half-Duplex) and IEEE 802.3x PAUSE Frame Flow Control (Full-Duplex)
- RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- Available for operation in Ring or point-to-point configuration
- Available for operation over singlemode or multimode fiber over a variety of link budget
- Redundant dual power supply inputs 48/52 VDC
- 4KV Ethernet Surge Protection for harsh environment
- -40°C to 80°C (-40°F to 176°F) operating temperature
- Compact, corrosion resistant case attaches to a standard DIN Rails

10/100Base-Tx to 100Base-Fx 802.3at PoE+ Media Converter

The Rancent RCFE1-POE is a cost-effective PoE+ Fast Ethernet media converter equipped with one 10/100Mbps RJ45 port with POE-af (15.4w) /POE-at (30w) capabilities and one 100Mbps SC/ST (fiber) port that extend existing networks over multimode/singlemode fiber.



10/100Base-Tx to 100Base-Fx 802.3at PoE+ Media Converter

The Rancent RCFE2-POE is a cost-effective PoE+ Fast Ethernet media converter equipped with two 10/100Mbps RJ45 ports with POE-af (15.4w) /POE-at (30w) capabilities and one 100Mbps SC/ST (fiber) port that extend existing networks over multimode/singlemode fiber.



2x10/100Base-TX + 2x100Base-FX 802.3at PoE+ Ethernet Switch

The Rancent RCINFE2F2-POE is an industrial Unmanged PoE+ Ethernet switch equipped with two 10/100Mbps RJ45 ports with POE-af (15.4w) /POE-at (30w) capabilities and two 100Mbps SFP (fiber) ports that extend existing networks over multimode/singlemode fiber.



10/100/1000Base-T to Gigabit SFP 802.3at PoE+ Media Converter

The Rancent RCGE1S-POE is a cost-effective PoE+ Gigabit media converter equipped with one 10/100/1000Mbps RJ45 port with POE-af (15.4w) /POE-at (30w) capabilities and one 1000Mbps SFP (fiber) port that extend existing networks over multimode/singlemode fiber.



4x10/100/1000Base-TX + 2x1G 802.3at PoE+ Ethernet Switch

The Rancent RCINGE4F2-POE is an industrial PoE+ Ethernet switch equipped with four 10/100/1000Mbps RJ45 ports with POE-af (15.4w) /POE-at (30w) capabilities and two 1000Mbps SFP (fiber) ports that extend existing networks over multimode/singlemode fiber.



8x10/100/1000Base-TX + 2x1G 802.3at PoE+ Ethernet Switch

The Rancent RCINGE8F2-POE is an industrial PoE+ Ethernet switch equipped with eight 10/100/1000Mbps RJ45 ports with POE-af (15.4w) /POE-at (30w) capabilities and two 1000Mbps SFP (fiber) ports that extend existing networks over multimode/singlemode fiber.



Video Over Fiber

Analog Video Over Fiber

For more than 15 years, Rancent has been a premier and trusted supplier for innovative, high-quality transmission products and solutions of analog video, audio data, contact closure and Ethernet for mission critical applications in the security and surveillance industry. Rancent video over fiber products can transmit up to 32-channel digitally encoded video with PTZ control data and bi-directional audio over one singlemode or multimode fiber.



Typical Applications

- High quality CCTV networks requiring full duplex or reverse data transmission
- and audio communication between analog cameras and control center
- Transportation communication systems
- Safe city CCTV system video transmission

Product Features

- 8-Bit Digitally Encoded Uncompressed Video Transmission
- 24-Bit Digitally Encoded Audio Transmission
- Compatible with NTSC, PAL or SECAM Video Standards
- Simultaneous Transmission of Vide, Data, Audio, Contact Closure and Ethernet
- Simplex or Full-duplex RS485 or RS422 Operation
- Plug-and-play Design with No Adjustment Required
- Local LED Indicators to Monitor System Status
- High Performance Laser-based Optics & Wide Optical Dynamic Range
- No EMI, RFI, Cross Talk and Video Distortion
- Support up to 30KM with No Video Degradation and Optical Loss
- Standalone or Rack Mount Options

1-Channel Digitally Encoded Video Transceiver

RC-V1T/R Series video transmitter and receiver support highest quality of 8-bit digitally encoded video transmission over one core single mode or multimode fiber. Optimized optical modules ensure the highest performance for most demanding applications.



1-Channel Video/1-Channel Bi-Data Transceiver

RC-V1BD1T/R Series video and data transceiver transmits one channel of 8-bit digitally encoded video and one channel of bi-data over one core single mode or multimode fiber. Optimized optical modules ensure the highest performance for demanding applications.



4-Channel Digitally Encoded Video Transceiver

RC-V4T/R Series video transmitter and receiver transmit four channels of 8-bit digitally encoded broadcast quality video signals over one core single mode or multimode fiber. Optimized optical modules ensure the highest performance for demanding applications.



4-Channel Video/1-Channel Bi-Data Transceiver

RC-V4BD1T/R Series video and data transceiver transmits four channels of 8-bit digitally encoded video and one channel of bi-data over one core single mode or multimode fiber. Optimized optical modules ensure the highest performance for demanding applications.



8-Channel Digitally Encoded Video Transceiver

RC-V8T/R Series video transmitter and receiver transmit eight channels of 8-bit digitally encoded broadcast quality video signals over one core single mode or multimode fiber. Optimized optical modules ensure the highest performance for demanding applications.



8-Channel Video/1-Channel Bi-Data Transceiver

RC-V8BD1T/R Series video and data transceiver transmits eight channels of 8-bit digitally encoded video and one channel of bi-data over one core single mode or multimode fiber. Optimized optical modules ensure the highest performance for demanding applications.



Video Over Fiber

HD-CVI/TVI/AHD Over Fiber

Rancent offers a complete range of HD-CVI/TVI/AHD over fiber products for High-definition CCTV applications in the security and surveillance industry. The HD products support transmission of highest quality of 10-bit digitally encoded HD-CVI, HD-TVI or AHD video with PTZ control data and bi-directional audio over one core singlemode or multimode fiber. Optimized optical modules are compatible with video resolution of 25/30/50/60F@720P and 25/30F@1080P.



Typical Applications

- High Definition CCTV networks requiring full duplex or reverse data transmission and audio communication between analog HD cameras and control center
- Transportation communication systems
- Safe city CCTV system video transmission

Product Features

- 10-Bit Digitally Encoded Uncompressed Video Transmission
- 24-Bit Digitally Encoded Audio Transmission
- Compatible with NTSC, PAL or SECAM Video Standards
- Simultaneous Transmission of Video and Data
- Simplex or Full-duplex RS485/RS422 or RS232 Operation
- Plug-and-play Design with No Adjustment Required
- Local LED Indicators to Monitor System Status
- Wide Optical Dynamic Range & High Performance Laser-based Optics
- No EMI, RFI, Cross Talk and Video Distortion
- Support up to 30KM with No Video Degradation and Optical Loss
- Standalone or Rack Mount Options

1-Channel Digitally Encoded Video Transceiver

RC-V1T/R-HD Series video transmitter and receiver supports highest quality of 10-bit digitally encoded HD-CVI, AHD or HD-TVI video transmission over one core singlemode or multimode fiber. Optimized optical modules which are fully compatible with 720P and 1080P ensure the highest performance for most demanding applications.



1-Channel Video/1-Channel Bi-Data Transceiver

RC-V1BD1T/R-HD Series video and data transceiver transmit 10-bit digitally encoded HD-CVI, AHD or HD-TVI video and bi-data over one core singlemode or multimode fiber. Optimized optical modules which are fully compatible with 720P and 1080P ensure the highest performance for most demanding applications.



4-Channel Digitally Encoded Video Transceiver

RC-V4T/R-HD Series video transmitter and receiver transmit four channels of 10-bit digitally encoded HD-CVI, AHD or HD-TVI video transmission over one core singlemode or multimode fiber. Optimized optical modules which are fully compatible with 720P and 1080P ensure the highest performance for most demanding applications.



4-Channel Video/1-Channel Bi-Data Transceiver

RC-V4BD1T/R-HD Series video and data transceiver transmit four channels of 10-bit digitally encoded HD-CVI, AHD or HD-TVI video and bi-data over one core singlemode or multimode fiber. Optimized optical modules which are fully compatible with 720P and 1080P ensure the highest performance for most demanding applications.



8-Channel Digitally Encoded Video Transceiver

RC-V8T/R-HD Series video transmitter and receiver transmit eight channels of 10-bit digitally encoded HD-CVI, AHD or HD-TVI video transmission over one core singlemode or multimode fiber. Optimized optical modules which are fully compatible with 720P and 1080P ensure the highest performance for most demanding applications.



8-Channel Video/1-Channel Bi-Data Transceiver

RC-V8BD1T/R-HD Series video and data transceiver transmit eight channels of 10-bit digitally encoded HD-CVI, AHD or HD-TVI video and bi-data over one core singlemode or multimode fiber. Optimized optical modules which are fully compatible with 720P and 1080P ensure the highest performance for most demanding applications.



Video Over Fiber

3G SDI/HD-SDI Over Fiber

Rancent 3G SDI and HD-SDI series video transmitters & receivers provide broadcast quality transmission of the industry standard range of digital video data rates. No user adjustments are needed thus ensuring fast deployment and setup with broadcast quality results. Fully compliant with SMPTE424M, SMPTE292M, SMPTE259M and ITU digital video standards, these models ensure the highest performance for most demanding HD CCTV applications.



Typical Applications

- Digital broadcast applications such as studio signal routing and temporary OB or studio links
- Remote broadcast camera links
- Campus digital video distribution
- Very high performance surveillance networks

Product Features

- Available with built in user bypassable automatic reclocking at 270Mbps, 1.485Gbps and 2.97Gbps
- Operates from 270Mbps to 2.97Gbps in non-reclocked mode
- Compatible with SMPTE424M, 292M, 259M and ITU-R BT.601, ITU-R BT.1120 standards
- Automatic equalization of up to 350m @ 270Mbps and 70m @ 2.97Gbps
- Multimode, Singlemode and CWDM fiber options via SFP modules
- Capable of operation over more than 50km
- Immune to pathological signals
- LED indicators for monitoring of system operating status
- Redundant output for preview on local monitor
- Reverse RS485 data are optional
- Standalone or rack mount version

1-Channel 3G SDI Video

RC-SDV13GT/R serial digital video transmitter and receiver support realtime and broadcast quality transmission of SDI, HD-SDI or 3G-SDI video signal over one core singlemode or multimode fiber.



1-Channel 3G SDI Video/1-Channel Return Data HD-SDI

RC-SDV1D13GT/R Series video transmitter and receiver support realtime and broadcast quality transmission of SDI, HD-SDI or 3G-SDI video signal with return RS485 over one core singlemode or multimode fiber.



1-Channel HD-SDI Video

RC-SDV1T/R serial digital video transmitter and receiver support realtime and broadcast quality transmission of SDI/HD-SDI video signal over one core singlemode or multimode fiber.



1-Channel HD-SDI Video/1-Channel Return Data

RC-SDV1D1T/R Series video transmitter and receiver support realtime and broadcast quality transmission of SDI/HD-SDI video signal with return RS485 over one core singlemode or multimode fiber.



Video Over Fiber

HDMI/DVI Over Fiber

Rancent HDMI/DVI compressed or uncompressed series video transmitters & receivers are designed to send one channel of 1.3/1.4 compliant HDMI or 1.2/1.3 compliant DVI video with embedded audio and keyboard & mouse control over one core single mode or multimode fiber.

Fully compliant with all the video resolutions up to 1080p, 60Hz, these models ensure the highest performance for most demanding HD CCTV applications.



Typical Applications

- Digital broadcast television systems
- Digital video distribution systems
- Extremely high quality video conferencing
- Concert & sporting event video displays

Product Features

- Extend HDMI/DVI video up to 1080p, 60Hz
- Graphic resolutions up to 1920x1080 over one fiber
- Uses all-digital processing & transmission for crystal-clear signals and no color skewing
- HDMI 1.2/1.3/1.4, DVI 1.2/1.3 and HDCP 1.1/1.2 standard compliant
- No settings or adjustments necessary, automatically
- Embedded 3.5mm audio and USB ports for keyboard & mouse control
- Diagnostic LEDs for power and link activity status
- Built-in ESD protection system
- Available for both singlemode and multimode applications
- Multimode distances available in excess of 500 meters (fiber dependent)
- Singlemode unit supports distances up to 30km

1-Channel Uncompressed HDMI/Bi-data/Audio/USB ports

RC-V1BD1A1TR-HDMI HDMI transmitter & receiver supports transmission of 1-channel uncompressed lossless HDMI video with bi-RS485/RS232, embedded audio and two channels of USB for keyboard and mouse control over singlemode or multimode fiber.



1-Channel Compressed 1080P HDMI with USB ports

RC-V1KMTR-HDM HDMI transmitter & receiver supports transmission of 1-channel compressed 1.2/1.3 compliant HDMI video with two channels of USB for keyboard and mouse control over singlemode or multimode fiber.



1-Channel Uncompressed DVI/Bi-data/Audio/USB ports

RC-V1BD1A1TR-DVI DVI transmitter & receiver supports transmission of 1-channel uncompressed lossless DVI video with bi-RS485/RS232, embedded audio and two channels of USB for keyboard and mouse control over singlemode or multimode fiber.



1-Channel Compressed 1080P DVI with USB ports

RC-V1KMTR-DVI DVI transmitter & receiver supports transmission of 1-channel compressed 1.2/1.3 compliant DVI video with two channels of USB for keyboard and mouse control over singlemode or multimode fiber.



IP Surveillance

IP Camera

Rancent IP fixed box camera and PTZ dome cameras pack the most popular features and functionality into an assortment of affordable indoor and outdoor cameras to maximize your video security options and protect your people and property. With resolutions up to 5MP, these cameras deliver sharp images, cover large areas, and zoom in to scenes while maintaining evidential data for different environments, lighting conditions and budgets.



Typical Applications

- Commercial surveillance applications for office complexes, restaurants, hotels, and others
- Retail security systems for shopping malls, supermarkets, chain stores, and others
- intelligent campus surveillance systems for schools, colleges and other education establishments

Product Features

- H.265, H.264 Main, High, MJPEG video encoding
- Up to 5 MP resolution at 30 frames per second
- Up to 30 frames per second (ips for 5 MP cameras)
- Autofocus motorized remote zoom lens
- Integrated adaptive IR illumination up to 40/60 m (for different lenses)
- Operating temperature up to 60°C (140°F) (environmental models)
- Basic Analytics including Simple Motion Detection
- Power over Ethernet (PoE/PoE+), 24 VAC, 12 VDC
- Vandal resistant to IP66 ingress protection
- Compatible with Rancent and Onvif 2.4 video management systems

5MP IR Varifocul Fixed Bullet Network Camera

RC-NBC50VF series IR Fixed bullet network camera supports H.265, H.264 Main, High, MJPEG video encoding with up to 5MP video resolution and 60m IR range.



2MP IR Varifocul Fixed Bullet Network Camera

RC-NBC20VF series IR Fixed bullet network camera supports H.265, H.264 Main, High, MJPEG video encoding with up to 2MP video resolution and 40m IR range.



5MP 4x IR Varifocal PTZ Network Dome Camera

RC-NPD50VF series 4x IR varifocal PTZ network dome camera supports H.265, H.264 Main, High, MJPEG video encoding with up to 5MP video resolution and 20m IR range.



2MP 4x IR Varifocal PTZ Network Dome Camera

RC-NPD20VF series 4x IR varifocal PTZ network dome camera supports H.265, H.264 Main, High, MJPEG video encoding with up to 2MP video resolution and 20m IR range.



IP Surveillance

IP PTZ

Rancent's IP PTZ speed domes are rugged outdoor cameras that illuminate areas of interest above the horizon in poorly lit situations. With the highest industry compression standard available and excellent low light performance for your most demanding lighting situations., the Rancent Full HD 1080p 20X and 33X optical zoom PTZ dome cameras are designed for use in 24x7 surveillance applications, such as waterways, runways, roadways, and bridges.



Typical Applications

- Intelligent surveillance systems for large city and critical Infrastructures
- Intelligent Transportation Systems such as railways, motorways, airports, seaports and others
- Intelligent security solutions for oil, gas, electric power, marine, and wind power

Product Features

- H.265, H.264 Main, High, MJPEG video encoding
- Up to Up to 2592x1944 Video Resolution
- 100~120 meters IR distance range
- Pan Range +0.6°/s to -200/s° Degrees
- Tilt Range +0.8°/s to -75°/s Degrees
- 8 cruising tracks, each cruising track has 32 presets
- 4 pattern tours, 10 Mins memory, 100 programmable instructions
- High-precision step-motor for flicker-less image
- TVS3000V lightning protection & IP66 Weather proof
- Standard Onvif 2.4 supported

5MP 33x Network IR Speed Dome

RC-NSD5033-IN series 33x network IR PTZ speed dome supports H.265, H.264 Main, High, MJPEG video encoding with up to 5MP video resolution and 120m IR range.



5MP 20x Network IR Speed Dome

RC-NSD5020-IN series 20x network IR PTZ speed dome supports H.265, H.264 Main, High, MJPEG video encoding with up to 5MP video resolution and 120m IR range.



2MP 33x Network IR Speed Dome

RC-NSD2033-IN series 33x network IR PTZ speed dome supports H.265, H.264 Main, High, MJPEG video encoding with up to 2MP video resolution and 120m IR range.



2MP 20x Network IR Speed Dome

RC-NSD2020-IN series 20x network IR PTZ speed dome supports H.265, H.264 Main, High, MJPEG video encoding with up to 2MP video resolution and 120m IR range.



IP Surveillance

HD Camera

Rancent analog HD PTZ dome cameras are fully compatible with video standards of HD-TVI/CVI/AHD, delivering sharp images in both bright and dark areas for maximized visibility. HD-TVI/CVI/AHD CCTV solution shows its strengths of non-compressed video quality, less storage capacity and low requirement for network bandwidth, making it ideal for video upgrading applications from standard analog video to megapixel HD analog over the existing cable infrastructure.



Typical Applications

- Commercial surveillance applications for office complexes, restaurants, hotels, and others
- Retail security systems for shopping malls, supermarkets, chain stores, and others
- intelligent campus surveillance systems for schools, colleges and other education establishments

Product Features

- Switchable HD-TVI/CVI/AHD/CVBS Video Output
- Up to 5 MP resolution at 30 frames per second
- Up to 30 frames per second (ips) for 5 MP cameras
- Autofocus motorized remote zoom lens
- Integrated adaptive IR illumination up to 20/120 m (for different lenses)
- Operating temperature up to 60°C (140°F) (environmental models)
- Basic Analytics including Simple Motion Detection
- 220 presets, 4 pattern tours, 8 cruising tracks
- High-precision step-motor for flicker-less image
- TVS3000V lightning protection & IP66 Weather proof

Starlight 2MP 33x Analog HD IR Speed Dome

RC-HSD2033-IN series 33x Analog HD IR speed dome supports video standards of HD-TVI/CVI/AHD/CVBS with up to 2MP video resolution and 120m IR range.



Starlight 2MP 20x Analog HD IR Speed Dome

RC-HSD2020-IN series 20x Analog HD IR speed dome supports video standards of HD-TVI/CVI/AHD/CVBS with up to 2MP video resolution and 120m IR range.



5MP 4x Analog HD Mini IR PTZ Dome

RC-HPD50VF series 4x Analog HD Mini IR PTZ dome supports video standards of HD-TVI/CVI/AHD/CVBS with up to 5MP video resolution and 20m IR range.



2MP 4x Analog HD Mini IR PTZ Dome

RC-HPD20VF series 4x Analog HD Mini IR PTZ dome supports video standards of HD-TVI/CVI/AHD/CVBS with up to 2MP video resolution and 20m IR range.



IP Surveillance

NVR

Rancent embedded network and HD video recorders feature optimized H.265+ and H.264+ compression codecs, enabling highly effective network bandwidth and storage management. The Rancent all-in-one NVRs and HD DVRs are enabled with powerful capabilities, supporting up to 5MP video resolution for recording. With plug-and-play functionality, accessing and managing multiple channels of IP/HD cameras and other smart functions has never been easier.



Typical Applications

- IP or analog HD CCTV surveillance system
- intelligent safe city surveillance system
- intelligent transportation monitoring system

Product Features

- H.265+/H.265/H.264+/H.264 video formats self-adaptive
- Up to 16-ch 1080P decoding capability
- Up to 5MP resolution recording/live view
- Supports live view, storage, and playback of the connected camera at up to 5 MP resolution
- HDMI and VGA independent outputs
- HDMI Video output at up to 1080P (1920 × 1080/60Hz) resolution
- Up to 1 SATA interfaces, up to 8 TB for each HDD
- Third-party network cameras supported
- Centralized management of IP cameras, including configuration, information import/export, real-time information display, upgrade, etc.

9-CH Network Video Recorder

RC-NSD8709-S2 series 9-CH network video recorder supports optimized H.265+ and H.264+ compression standards and up to 5MP video resolution for recording.



16-CH Network Video Recorder

RC-NSD8716-S2 series 16-CH network video recorder supports optimized H.265+ and H.264+ compression standards and up to 5MP video resolution for recording.



8-CH HD Video Recorder

RC-ASD8508-S2 series 8-CH HD video recorder supports optimized H.265+ and H.264+ compression standards and up to 5MP video resolution for recording.



16-CH HD Video Recorder

RC-ASD8516-S2 series 16-CH HD video recorder supports optimized H.265+ and H.264+ compression standards and up to 5MP video resolution for recording.



Accessories

SFP Modules

Rancent SFP optical plug-in modules provide a variety of optical fiber connectivity options for Ethernet, data, and 3G/HD-SDI signal products. Varieties include one or two fiber multimode, single-mode devices as well as CWDM modules, and single and dual channel optical transmitter and receiver as well as bi-directional SFP modules. Connector options include LC for one or two fiber modules. These SFP modules plug directly into Rancent's transmission products that support these devices.



The SFP modules are hot-swappable in Rancent's supported units and allow the user to easily change them on site with no disruption to other associated equipment. These also provide a level of on-site technology-proof for upgrading systems while keeping these upgrade costs to a minimum.

Copper Modules

Rancent Copper SFP modules fully support 10/100/1000BASE auto-negotiation and can be installed into optical SFP slots of compatible Rancent's Ethernet transmission products. This allows a typical SFP system to use copper Ethernet cable with RJ45 connector. The Copper SFP modules are hot-swappable in Rancent's supported units. They provide a level of on-site technology-proof for upgrading systems while keeping the upgrade costs to a minimum.



155Mb/s SFP Transceiver Multimode Dual Fiber 2KM 1310nm

SFP-MST13LC-2 series 155Mb/s SFP optical module supports two fiber multimode connectivity with transmission distance up to 2KM.



1.25Gb/s SFP Transceiver Multimode Dual Fiber 2KM 1310nm

SFP-GST13LC-2 series 1.25Gb/s SFP optical module supports two fiber multimode connectivity with transmission distance up to 2KM.



2.5Gb/s SFP Transceiver Singlemode Single Fiber 20KM 1310/1550nm

SFP-DGST1315LC-20 series 2.5Gb/s SFP optical module supports one fiber singlemode connectivity with transmission distance up to 20KM.



3Gb/s SFP Transceiver Singlemode Single Fiber 20KM 1310/1550nm

SFP-3GST1315LC-20 series 3Gb/s SFP optical module supports one fiber singlemode connectivity with transmission distance up to 20KM.



10/100/1000M Base-T Copper SFP Transceiver

SFP-GEC10/100/1000M series SFP copper module supports 10/100/1000BASE-T auto-negotiation and can be installed into optical SFP slots of compatible Rancent's transmission products.



1000M Base-T Copper SFP Transceiver

SFP-GEC1000M series SFP copper module supports 1000BASE-T Ethernet operation and can be installed into optical SFP slots of compatible Rancent's transmission products.



Accessories

Subrack Chassis

Rancent 19" 4U or 2U rack mount chassis is a universal subrack that accepts Rancent fiber optic transmission card units. Made of precision extruded Aluminum components, it is available with one or two redundant 100~240VAC switching power supplies. Cards and supplies utilize a rear loading slide in procedure. The Rancent rack mount card cages support the combination of up to 14/16 pieces of standalone/rack mountable media converters or 18 pieces of video transmission output modules.



The rack mount chassis employs 100~240 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 rack. The high reliability and stability ensures that if one module shuts down, the operation of the other modules remains unimpaired. The hot-pluggable and adjustment-free design ensures the convenience of the installation and operation.

Video Distributor

RC-VD/RC-VD-HD series video distributors are designed to send 16 channels of normal analog or high definition analog video signals including CVBS, HD-CVI, HD-TVI or AHD to 32/48/64 channels of display at the same time. Adjustment-free design ensures the convenience of the connection and operation. The distributors are designed in standard 2U case.



19" 4U Rack Mount Chassis 18 Slots

RC-300C Series rack mount card cage supports the combination of up to 18 pieces of 1/2/4 channel and 9 pieces of 8 channel of video or video/data output modules.



19" 2U Rack Mount Chassis 14/16 Slots

RC-200C Series subrack chassis is designed to accommodate up to 14/16 pieces of standalone or rack mountable media converters.



16 Video Inputs, 32 Video Outputs CCTV Distributor

RC-VD16-32 series video distributors are designed to send 16 channels of normal analog video signals to 32 channels of display at the same time.



16 HD Video Inputs, 32 HD Video Outputs CCTV Distributor

RC-VD16-32-HD series video distributors are designed to send 16 channels of high definition analog video signals including HD-CVI, HD-TVI or AHD to 32 channels of display at the same time.



16 Video Inputs, 64 Video Outputs CCTV Distributor

RC-VD16-64 series video distributors are designed to send 16 channels of normal analog video signals to 64 channels of display at the same time.



16 HD Video Inputs, 64 HD Video Outputs CCTV Distributor

RC-VD16-64-HD series video distributors are designed to send 16 channels of high definition analog video signals including HD-CVI, HD-TVI or AHD to 64 channels of display at the same time.

