GRX-K4416A

16 Channel H.264 HD-SDI Hybríd-Recorder



- 16 Channel FullHD 480fps recording capability
- Hybrid DVR, support HD-SDI, Ex-HD-SDI and analog cameras
- Automatic signal type detection
- Propietary file system with data-loss protection against power-failure
- Spot Monitor with 16-Split View and editable Sequence Function
- Search by time, calendar or event
- Free DDNS service
- Compatible with Grundig Control Center Software
- Mobile client support iPhone, iPad, Android

SUMMARY

Based on the Television Standard for FullHD Television, HD-SDI products feature up 2 Megapixel (1920x1080) pictures in real-time (30fps) transmitted over coax cabling.

Get the advantages of IP technology without their drawbacks. Get 16:9 megapixel pictures without network configuration, bandwidth problems and network security risks. Use existing coax cables and only exchange the cameras and recorders. Get a "real" live picture and see the things that happen in the now, not a few seconds ago. Connect a monitor directly to a camera using only a HD-SDI-to-HDMI converter.

HD-SDI products are easy to handle, easy to install and produce amazing high quality pictures.

SPECIFICATIONS

Video Inputs 16 CH HD-SDI or Ex-HD-SDI or Composite, BNC Video Outputs 1x VGA, 1x HDMI, 1x BNC Spot Harddisk bay 4 x SATA II Max. Storage Capacity 32B lintern or eSATA Basic Internal Storage 2 TB Video Compression H.264 Recording Resolution FullHD [1920x1080], HD [1280x720], 960H [960x576], Full D1 [720x576] Recording Speed 400/480 fps Recording Mode Continuous, Event (Alarm, Motion, Video Loss), Schedule, Manual Display Resolution 1920 x 1080 Auto Switching 3, 5, 10, 20, 30 sec, Event or manual, Multi Channel Views Display Speed 400 fps External Backup USB HDD, USB Memory, Network Watermark Yes Search Mode Date/Time, Event, Thumbnail Motion Detection On/ Off/ Area Setting Event Source Motion, Alarm, Fext, Video Loss, System Event Action Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset Audio Inputs 4 CH, RCA Audio Outputs 2 CH, RCA & HDMI Alarm Inputs 16 contact input N/O or N/C Alarm Outp	Operating System	Embedded OS
Harddisk bay 4 x SATA II Max. Storage Capacity 32B (intern or eSATA) Basic Internal Storage 4 Recording Resolution FullHD (1920x1080), HD (1280x720), 960H (960x576), Full D1 (720x576) Recording Speed 400/480 fps Recording Mode Continuous, Event (Alarm, Motion, Video Loss), Schedule, Manual Display Resolution 1920 x 1080 Auto Switching 3, 5, 10, 20, 30 sec, Event or manual, Multi Channel Views Display Speed 400 fps External Backup USB HDD, USB Memory, Network Watermark Yes Search Mode Date/Time, Event, Thumbnail Motion Detection On/ Off/ Area Setting Event Source Motion, Alarm, Text, Video Loss, System Event Action Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset Audio Inputs 4 CH, RCA Audio Outputs 2 CH, RCA & HDMI Alarm Inputs 16 contact input N/O or N/C Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C - +45°C Humidity Less than 90%, non condensing Supply Voltage 110 - 240 Vac, 50Hz Power Consumption 100 W Weight 10 kg	Video Inputs	16 CH HD-SDI or Ex-HD-SDI or Composite, BNC
Max. Storage Capacity 32B (intern or eSATA) Basic Internal Storage 2 TB Video Compression H.264 Recording Resolution FullHD [1920x1080], HD [1280x720], 960H [960x576], Full D1 [720x576] Recording Speed 400/480 fps Recording Mode Continuous, Event (Alarm, Motion, Video Loss), Schedule, Manual Display Resolution 1920 x 1080 Auto Switching 3, 5, 10, 20, 30 sec, Event or manual, Multi Channel Views Display Speed 400 fps External Backup USB HDD, USB Memory, Network Watermark Yes Search Mode Date/Time, Event, Thumbnail Motion Detection On/ Off/ Area Setting Event Source Motion, Alarm, Text, Video Loss, System Event Action Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset Audio Inputs 4 CH, RCA Audio Dutputs 2 CH, RCA & HDMI Alarm Outputs 2 CH, RCA & HDMI Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS S	Video Outputs	1x VGA, 1x HDMI, 1x BNC Spot
Basic Internal Storage 2 TB Video Compression H.264 Recording Resolution FullHD [1920x1080], HD [1280x720], 960H [960x576], Full D1 [720x576] Recording Speed 400/480 fps Recording Mode Continuous, Event (Alarm, Motion, Video Loss), Schedule, Manual Display Resolution 1920 x 1080 Auto Switching 3, 5, 10, 20, 30 sec, Event or manual, Multi Channel Views Display Speed 400 fps External Backup USB HDD, USB Memory, Network Watermark Yes Search Mode Date/Time, Event, Thumbnail Motion Detection On/ Off/ Area Setting Event Source Motion, Alarm, Text, Video Loss, System Event Action Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset Audio Inputs 4 CH, RCA Audio Outputs 2 CH, RCA & HDMI Alarm Inputs 16 contact input N/O or N/C Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules <td< td=""><td>Harddisk bay</td><td>4 x SATA II</td></td<>	Harddisk bay	4 x SATA II
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Recording Speed 400/480 fps Recording Mode Continuous, Event (Alarm, Motion, Video Loss), Schedule, Manual Display Resolution 1920 x 1080 Auto Switching 3, 5, 10, 20, 30 sec, Event or manual, Multi Channel Views Display Speed 400 fps External Backup USB HDD, USB Memory, Network Watermark Yes Search Mode Date/Time, Event, Thumbnail Motion Detection On/ Off/ Area Setting Event Source Motion, Alarm, Text, Video Loss, System Event Action Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset Audio Inputs 4 CH, RCA Audio Outputs 2 CH, RCA & HDMI Alarm Inputs 16 contact input N/O or N/C Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight 10 kg	Video Compression	H.264
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Auto Switching 3, 5, 10, 20, 30 sec, Event or manual, Multi Channel Views Display Speed 400 fps External Backup USB HDD, USB Memory, Network Watermark Yes Search Mode Date/Time, Event, Thumbnail Motion Detection On/ Off/ Area Setting Event Source Motion, Alarm, Text, Video Loss, System Event Action Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset Audio Inputs 4 CH, RCA Audio Outputs 2 CH, RCA & HDMI Alarm Inputs 16 contact input N/O or N/C Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight 10 kg	Recording Mode	
Display Speed 400 fps External Backup USB HDD, USB Memory, Network Watermark Yes Search Mode Date/Time, Event, Thumbnail Motion Detection On/ Off/ Area Setting Event Source Motion, Alarm, Text, Video Loss, System Event Action Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset Audio Inputs 4 CH, RCA Audio Outputs 2 CH, RCA & HDMI Alarm Inputs 16 contact input N/O or N/C Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight 10 kg	Display Resolution	1920 x 1080
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Search ModeDate/Time, Event, ThumbnailMotion DetectionOn/ Off/ Area SettingEvent SourceMotion, Alarm, Text, Video Loss, SystemEvent ActionPop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ PresetAudio Inputs4 CH, RCAAudio Outputs2 CH, RCA & HDMIAlarm Inputs16 contact input N/O or N/CAlarm Outputs4 RelayCompliantSMPTE-292, 960H, 760H, Ex-SDISerial Interface(s)1x RS232, 2x RS485, 2x USB, 1x eSATAATM/POSSupports up to 16 ATM/POS with VSI-Pro Hydra ModulesVideo StreamingVersatile Triple Streaming [Dual H.264 + single JPEG]Time SettingSetting by NTP Server local or internetMultiplex FunctionPentaplexNetwork2 x 10/100/1000MbpsClient softwareWindows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, AndroidOperating Temperature5°C ~ +45°CHumidityless than 90%, non condensingSupply Voltage110 ~ 240 Vac, 50HzPower Consumption100 WWeight10 kg	External Backup	USB HDD, USB Memory, Network
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Event Action Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset Audio Inputs 4 CH, RCA Audio Outputs 2 CH, RCA & HDMI Alarm Inputs 16 contact input N/O or N/C Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight	Motion Detection	On/ Off/ Area Setting
Audio Inputs 4 CH, RCA Audio Outputs 2 CH, RCA & HDMI Alarm Inputs 16 contact input N/O or N/C Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming [Dual H.264 + single JPEG] Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight	Event Source	Motion, Alarm, Text, Video Loss, System
Audio Outputs Alarm Inputs 16 contact input N/O or N/C Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity Less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight	Event Action	Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset
Alarm Inputs Alarm Outputs 4 Relay Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight	Audio Inputs	4 CH, RCA
Alarm Outputs Compliant SMPTE-292, 960H, 760H, Ex-SDI Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight	Audio Outputs	2 CH, RCA & HDMI
CompliantSMPTE-292, 960H, 760H, Ex-SDISerial Interface(s)1x RS232, 2x RS485, 2x USB, 1x eSATAATM/POSSupports up to 16 ATM/POS with VSI-Pro Hydra ModulesVideo StreamingVersatile Triple Streaming (Dual H.264 + single JPEG)Time SettingSetting by NTP Server local or internetMultiplex FunctionPentaplexNetwork2 x 10/100/1000MbpsClient softwareWindows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, AndroidOperating Temperature5°C ~ +45°CHumidityless than 90%, non condensingSupply Voltage110 ~ 240 Vac, 50HzPower Consumption100 WWeight10 kg	Alarm Inputs	16 contact input N/O or N/C
Serial Interface(s) 1x RS232, 2x RS485, 2x USB, 1x eSATA ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity Less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight	Alarm Outputs	4 Relay
ATM/POS Supports up to 16 ATM/POS with VSI-Pro Hydra Modules Video Streaming Versatile Triple Streaming (Dual H.264 + single JPEG) Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity Less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight 10 kg	Compliant	SMPTE-292, 960H, 760H, Ex-SDI
Video StreamingVersatile Triple Streaming (Dual H.264 + single JPEG)Time SettingSetting by NTP Server local or internetMultiplex FunctionPentaplexNetwork2 x 10/100/1000MbpsClient softwareWindows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, AndroidOperating Temperature5°C ~ +45°CHumidityless than 90%, non condensingSupply Voltage110 ~ 240 Vac, 50HzPower Consumption100 WWeight10 kg	Serial Interface(s)	1x RS232, 2x RS485, 2x USB, 1x eSATA
Time Setting Setting by NTP Server local or internet Multiplex Function Pentaplex Network 2 x 10/100/1000Mbps Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight	ATM/POS	Supports up to 16 ATM/POS with VSI-Pro Hydra Modules
Multiplex FunctionPentaplexNetwork2 x 10/100/1000MbpsClient softwareWindows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, AndroidOperating Temperature5°C ~ +45°CHumidityless than 90%, non condensingSupply Voltage110 ~ 240 Vac, 50HzPower Consumption100 WWeight10 kg	Video Streaming	Versatile Triple Streaming (Dual H.264 + single JPEG)
Network2 x 10/100/1000MbpsClient softwareWindows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, AndroidOperating Temperature5°C ~ +45°CHumidityless than 90%, non condensingSupply Voltage110 ~ 240 Vac, 50HzPower Consumption100 WWeight10 kg	Time Setting	Setting by NTP Server local or internet
Client software Windows (XP, Vista, 7), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight 10 kg	Multiplex Function	Pentaplex
Mobile: iPhone, Android Operating Temperature 5°C ~ +45°C Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight 10 kg	Network	'
Humidity less than 90%, non condensing Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight 10 kg	Client software	
Supply Voltage 110 ~ 240 Vac, 50Hz Power Consumption 100 W Weight 10 kg	Operating Temperature	5°C ~ +45°C
Power Consumption 100 W Weight 10 kg	Humidity	less than 90%, non condensing
Weight 10 kg	Supply Voltage	110 ~ 240 Vac, 50Hz
	Power Consumption	100 W
Dimensions w*h*d 445 x 88 x 418 mm	Weight	10 kg
	Dimensions w*h*d	445 x 88 x 418 mm

DIMENSIONS

