Ernitec Enterprise NVR

Hydra V2

- 7th Gen Intel Core i7 Kaby Lake
- 16 Gb RAM, 240Gb SSD
- Windows 10 CBB Edition
- ESR Ernitec Smart Recovery
- EasyView Enterprise VMS
- Over 3000 Native Cameras Drivers
- License Based True Video Analytics
- Unlimited Hydra Expansion
- Multi-Streaming
- Built in PSU
- 3 year Warranty

Hydra V2

The Hydra V2 has been improved with the addition of the new intel 7th Generation Core i7 Kaby Lake CPU with Intel Quick Sync ideal for smooth VMS Operation The Hydra has been reduced to 3 base part numbers so you can configure your own specification. Then we build, test and ship it to you.

Built in Video Analytics

Hydra V2 has been made with a faster CPU to take the load of VCA channels and the VCA software is already on board, all you need to do is activate the licence to add the amount of Video analytic channels you want on your Hydra.

Multi-Streaming

This extremely important feature enables the Hydra to record in high resolution and stream multi-screen images to the local monitors, the multi streaming enables a second or even third stream resolution choices to the programmer meaning the load to the local monitor is reduced enabling more streams to be viewed.

Real VMS on Board

Unlike other units in class our NVR has VMS software that you can actually use. Offering a host of features we have all come to expect from our video systems over the years.

Ernitec Smart Recovery

The Hydra is also new fitted with ESR recovery software bringing new computer safety standards to the security market with our unique ESR software developed by Ernitec to back-up the complete machine including OS and VMS settings, saving hours of on site problem finding.

Huge Camera Integration List

The Hydra, can integrate with over 3000 camera with native SDK integration offering the full features of the cameras not just the normal OnVif integration. Of course you can use OnVif cameras opening up to almost limitless choice of camera integration

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3 Step Hydra Configuration

The new Hydra V2 concept allows you to customize your hydra to the needs of the project. There are three base models to choose from, then you can add your selected license configuration and hard drive requirements just like we do with our build Series servers.

Please Note; *The Hydra HB version with capture cards needs to run in a 32 bit windows environment, meaning if you mix Hybrid Hydras and IP Hydras in the same multi-site system both types should run the 32 bit EasyView installation.*

Base Hydra Options	
HYDRA-B32H	Hybrid Hydra NVR with 16 channel analog card, 32Bit EasyView, 1200MP, 1U desktop / rack, 2x net,240v
HYDRA-B32	Hydra NVR with 32Bit Pro or Enterprise EasyView, 1200MP, 1U desktop / rack, 2x net,240v
HYDRA-B64	Hydra HVR with 64Bit Pro or Enterprise EasyView, 1200MP, 1U desktop / rack, 2x net,240v

Software Options	
HYDRA-CH1-ENT	1 Channel factory installed EasyView Enterprise license
HYDRA-CH1-PRO	1 Channel factory installed EasyView Pro license
HYDRA-CH1-VCA	1 Channel factory installed EasyView VCA license

Drive Options	
HYDRA-HDD-2TB	2TB 24/7 SATA industrial 7200rpm HDD fitted to HYDRA
HYDRA-HDD-3TB	3TB 24/7 SATA industrial 7200rpm HDD fitted to HYDRA
HYDRA-HDD-4TB	4TB 24/7 SATA industrial 7200rpm HDD fitted to HYDRA
HYDRA-HDD-6TB	6TB 24/7 SATA industrial 7200rpm HDD fitted to HYDRA
HYDRA-HDD-8TB	8TB 24/7 SATA industrial 7200rpm HDD fitted to HYDRA
HYDRA-HDD 10TB	10TB 24/7 SATA industrial 7200rpm HDD fitted to HYDRA

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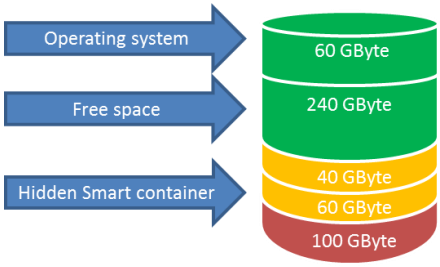
Ernitec Smart Recovery software

- Ernitec Smart Recovery is the first and currently only recovery tool for surveillance servers that is designed especially for the surveillance market.
- ESR can save you a huge amount of time and money on trying to find an error – now fault finding software errors can be carried out on site with the use of this unique tool.

- Backup the complete machine including OS and VMS settings.
- With ESR you no longer have to think about having a backup of every system you use.
- The most reliable recovery solution for surveillance servers on the market.
- Choose between Factory, Reseller 1, Reseller 2 and Customer image that can boot your server, even after a severe crash.

- Recover the complete machine including OS and VMS settings.
- ESR works on Windows 7, 8, 10 & 2012 operating system and its applications without re-installation.
- ESR is pre-installed on all Ernitec ESR servers



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Powerful Multi-Streaming

With the power of multi streaming we have a world beating recorder offering viewing and recording all from the same unit, we can offer full HD recording with HD streams for the local and remote clients and D1 resolution to you mobile device. Sensibly dividing the streaming between devices massively reduces the load on the system and give outstanding figures.

High performance live data base

The Hydra series runs with a full data base making this recorder one of the fastest on the planet, you can instantly retrieve video though the whole recording period, making fast retrieval and seamless high speed playback and rewind possible. This gives the user a true video recorder feel to the unit and massively increases the time to find incidents.

SDD Secure Data Distribution

Each Hydra comes with two storage disks using the unique SDD feature. The Ernitec SDD technology distributes video frames evenly between disks. A single drive failure would thus only decrease the frames on a video clip and not leave any large blank areas during the storage interval. For forensic research a well-placed, good resolution camera gives practically the same success rate with a low frame rate as a video with a higher frame rate – meaning that the risk of not being able to analyse an event due to a failed hard disk becomes close to zero.

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EasyView

Intuitive and easy to use EasyVeiw application for local or remote monitoring, searching, playback and export of video content for external analysis.

Huge Camera Integration List

The Hydra series, can integrate with over 2000 camera with native SDK integration offering the full features of the cameras not just the normal OnVif

Panasonic
AXIS COMMUNICATIONS
JVC
ernitec
ACTi Connecting Vision
AVIGILON
MOBOTIX
ONVIF
SANYO
SONY
HIKVISION
Arecont Vision
VIVOTEK
PELCO
BOSCH Security Systems
BASLER VISION TECHNOLOGIES
SAMSUNG SAMSUNG TECHWIN
IQinVision

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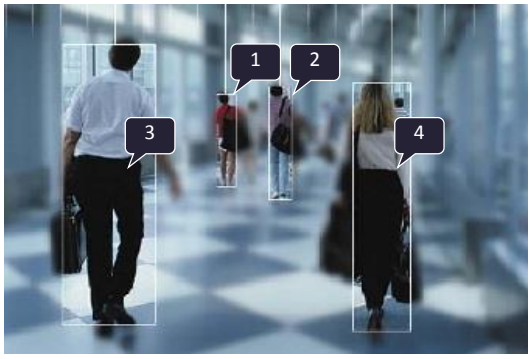
Video analytics software

Airports, bus and train stations, bars and clubs, car parks, retails stores and shopping malls, museums and tourist attractions, sports stadia and leisure facilities - just some of the environments where video analytics can offer a cost effective, robust and highly accurate solution.



People COUNT software

VCA Count license for 1 camera. An addition to the VCA license, offering the upgrade to people counting engine in the VCA platform.

Partno: 0063-99989

ANPR+ software

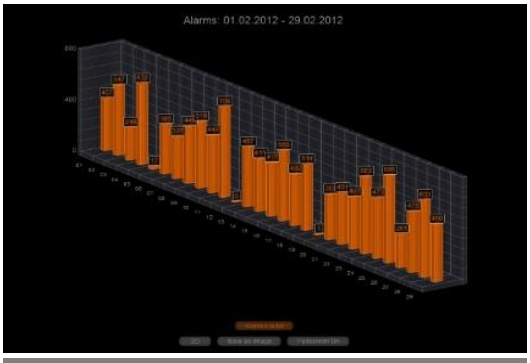
Automatic number plate recognition for 4 channels, incl. Engine, Black- & White list management application.

Partno: 0063-99987

Video Content Analytics

VCA single channel license offering VCA to any analog or IP camera connected to the EasyView VMS. Includes Trip wire, Direction filter, Removed object detection, Human & vehicle detection, Speed filter and Abandoned object functions. Unique easy to use 3D calibration, enter and exit filters.

Partno: 0063-99988



Reporting Tools

Software data mining tool for system administrators and retail users to analyse data from the CCTV server (XMC). The tool can be used to obtain information from VCA, people counting and ANPR systems within the server providing more detailed feed back to the system user.

Partno: 0063-99990

The Hydra EVR Pro Plus license need to be upgraded to EVR Enterprise channels

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Hydra Features

Stackable NVR Expansion Solution When designing a CCTV system you try to cover all angles and offer the best solution to a customer, however more often than not when a customer sees the quality of the megapixel cameras that have been installed customers will come back and ask for more cameras. If you have purchased a Linux box NVR solution this means you have add a whole new unit just for maybe one of two more cameras.

Upgrading your Hydra is simple you can just add the extra licenses you want to increase the number of cameras. If you want to expand over 32 cameras then you can add another Hydra to your system to offer a stackable NVR solution up to 5 hydras can be stacked in the standard license. If you want to expand further we have bolt on management licenses to increase you system to unlimited numbers of Hydras and cameras. You can also spread these single management connected Hydras across large networks and even worldwide, the limits are just your imagination.

Hydra Upgrades & Extension Part Numbers

ENTERPRISE CHANNEL

Hydra Enterprise single channel license 10 users, 5 Hydras.

expansion max 32 channels.

Partno: 0063-99948

VIDEO ANALYCTICS CHANNEL

Hydra VCA Surveillance License, enterprise license required to run Video Analytics.

Partno: 0063-99947

MASTER HYDRA EXTENSION*

Master server license for additional Hydras from 6 to 20 and 20 users for EVR Enterprise. Active directory integration.

Part no: 0063-99995

*This part has to be installed before 0063-99994

HYDRA EXTENSION*

Master Hydra extension license for additional 10 Hydras on top of 0063-99995 use this part number to increase in steps of 10

Part no: 0063-99994

*This part is used with 0063-99995

USER EXTENSION

License for additional 10 users in VMS Pro and VMS Enterprise.

Partno: 0063-99993

ANPR Base License

4 Channel ANPR Base License Enterprise license required to run ANPR

Partno: 0063-99987

ANPR 1 Channel Extension

1 Channel ANPR channel expansion License required to run extra ANPR channels.

Partno: 0063-99986

REPORTING TOOL

Data mining tool for system administrators Enterprise license required to run Reporting Tool

Partno: 0063-99990

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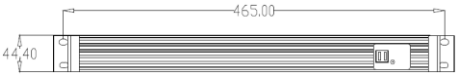
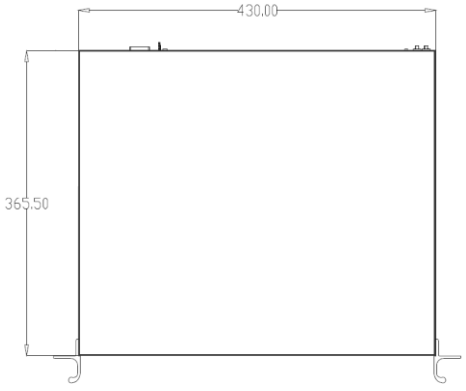
Technical Specification Hydra B32H

System	
Form factor	1U Rack/ Desktop
CPU	7th Gen Intel I7-7700 KABY LAKE
System memory	16 GB DDR4 RAM
System Drive	240Gb M.2 2280 motherboard SSD
Storage 2 * 3.5" HDD	Empty fit (up to 20TB)
Redundancy	EasyView SDD Secure Data Distribution
Recording frame rate at resolution 1280 x 720	Up to 1200/sec in H.264
Number of Analog Inputs	16 (licenses need to be added)
Number of IP camera inputs	Max 32 IP cameras*
Operating System	Windows 10 CBB Edition
Video Management System	Ernitec EasyView 32Bit Software***
Recovery	ESR Ernitec Smart Recovery
Video Input	16 Channel H264 hardware compression, real-time D1 resolution on all channels 400fps@D1 (704 x 576 pixels)
System rear I/O	2x GbE RJ45, 2x USB 3.0 2x USB 2.0. 2x COM ports 1x Display Port, 1x HDMI 1x DVI-I 2x DB-15 (Capture Card) 1x Line-out / MIC-in / Line-in
Front I/O	2x USB 2.0
Dual network card	Yes
Dual Monitor output	Yes
Automatic camera finder	Yes
Multi-streaming camera support	Yes
Multiple video export formats	Yes
Alarm Management	Yes
3rd-party camera support	Yes
Onvif supported cameras	Yes
PTZ camera support	Yes Erna Analog Protocol
Codecs supported	H.264, MPEG-4 , MJPEG
EasyView Enterprise	License option
EasyView Professional	License option
EasyView VCA	License option
App for smartphones/ tablets	ERV GO for IOS/ android

General	
Unit Dimension (W x H x D)	465 x 44,4 x 365,5mm (1U 19")
Unit Weight (without storage)	11.0 kg
Package Dimension (W x H x D)	505x 145,5 x 620mm
Package Weight	12.0 kg
Operation temperature	+5°C to +40°C
Operation humidity	10% to 90%
Power requirements	100V -240V AC/50-60Hz/300W
Power unit	Internal PSU
Languages	Arabic, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Icelandic, Italian, Norwegian, Polish, Portuguese, Russia, Spanish, Swedish
warranty	3 years
Included accessories	Quick guide, User Manual, Mouse, Schuko Power Cable, UK power Cable, rack kit
Part Number	HYDRA-B32H

Optional accessories	
EasyView 1 Channel Enterprise license	HYDRA-CH1-ENT
EasyView 1 Channel Professional license	HYDRA-CH1-PRO
EasyView 1 Channel VCA license	HYDRA-CH1-VCA
USB A - Serial RS232 for PTZ	USBADB25
RS232 to R485 Converter for PTZ	ADA25RJ11
2TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-2TB
3TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-3TB
4TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-4TB
6TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-6TB
8TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-8TB
10TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD 10TB





* You can add up 32 IP cameras using additional licenses
** Expand beyond 5 Hydras using license option 0063-99995 and 0063-99994.
*** Hydra comes with EasyView installed however you need to order the of channels you require by using the license part numbers.

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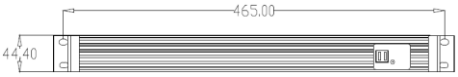
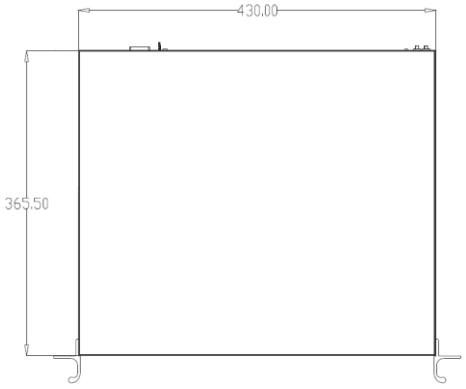
Technical Specification Hydra B32

System	
Form factor	1U Rack/ Desktop
CPU	7th Gen Intel I7-7700 KABY LAKE
System memory	16 GB DDR4 RAM
System Drive	240Gb M.2 2280 motherboard SSD
Storage 2 * 3.5" HDD	Empty fit (up to 20TB)
Redundancy	EasyView SDD Secure Data Distribution
Recording frame rate at resolution 1280 x 720	Up to 1200/sec in H.264
Number of IP camera inputs	Max 32 IP cameras*
Operating System	Windows 10 CBB Edition
Video Management System	Ernitec EasyView 32Bit Software***
Recovery	ESR Ernitec Smart Recovery
System rear I/O	2x GbE RJ45, 2x USB 3.0 2x USB 2.0. 2x COM ports 1x Display Port, 1x HDMI 1x DVI-I 2x DB-15 (Capture Card) 1x Line-out / MIC-in / Line-in
Front I/O	2x USB 2.0
Dual network card	Yes
Dual Monitor output	Yes
Automatic camera finder	Yes
Multi-streaming camera support	Yes
Multiple video export formats	Yes
Alarm Management	Yes
3rd-party camera support	Yes
Onvif supported cameras	Yes
PTZ camera support	Yes Erna Analog Protocol
Codecs supported	H.264, MPEG-4 , MJPEG
EasyView Enterprise	License option
EasyView Professional	License option
EasyView VCA	License option
App for smart devices	EasyView GO for IOS/ android

General	
Unit Dimension (W x H x D)	465 x 44,4 x 365,5mm (1U 19")
Unit Weight (without storage)	10.0 kg
Package Dimension (W x H x D)	505x 145,5 x 620mm
Package Weight	12.0 kg
Operation temperature	+5°C to +40°C
Operation humidity	10% to 90%
Power requirements	100V -240V AC/50-60Hz/300W
Power unit	Internal PSU
Languages	Arabic, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Icelandic, Italian, Norwegian, Polish, Portuguese, Russia, Spanish, Swedish
warranty	3 years
Included accessories	Quick guide, User Manual, Mouse, Schuko Power Cable, UK power Cable, rack kit
Part Number	HYDRA-B32

Optional accessories	
EasyView 1 Channel Enterprise license	HYDRA-CH1-ENT
EasyView 1 Channel Professional license	HYDRA-CH1-PRO
EasyView 1 Channel VCA license	HYDRA-CH1-VCA
USB A - Serial RS232 for PTZ	USBADB25
RS232 to R485 Converter for PTZ	ADA25RJ11
2TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-2TB
3TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-3TB
4TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-4TB
6TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-6TB
8TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-8TB
10TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD 10TB





* You can add up 32 IP cameras using additional licenses
** Expand beyond 5 Hydras using license option 0063-99995 and 0063-99994.
*** Hydra comes with EasyView installed however you need to order the of channels you require by using the license part numbers.

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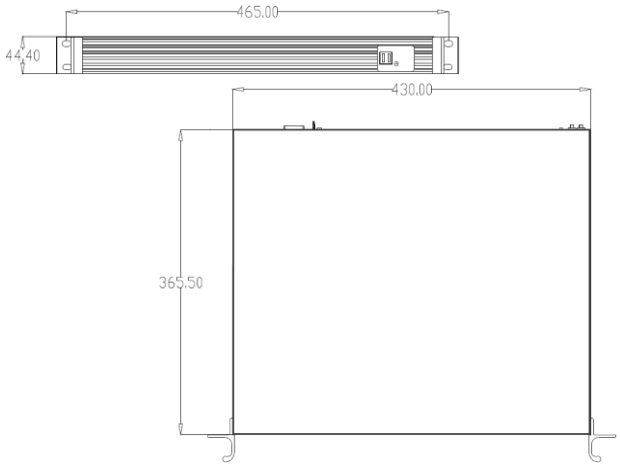
Technical Specification Hydra B64

System	
Form factor	1U Rack/ Desktop
CPU	7th Gen Intel I7-7700 KABY LAKE
System memory	16 GB DDR4 RAM
System Drive	240Gb M.2 2280 motherboard SSD
Storage 2 * 3.5" HDD	Empty fit (up to 20TB)
Redundancy	EasyView SDD Secure Data Distribution
Recording frame rate at resolution 1280 x 720	Up to 1200/sec in H.264
Number of IP camera inputs	Max 32 IP cameras*
Operating System	Windows 10 CBB Edition
Video Management System	Ernitec EasyView 64Bit Software***
Recovery	ESR Ernitec Smart Recovery
System rear I/O	2x GbE RJ45, 2x USB 3.0 2x USB 2.0. 2x COM ports 1x Display Port, 1x HDMI 1x DVI-I 2x DB-15 (Capture Card) 1x Line-out / MIC-in / Line-in
Front I/O	2x USB 2.0
Dual network card	Yes
Dual Monitor output	Yes
Automatic camera finder	Yes
Multi-streaming camera support	Yes
Multiple video export formats	Yes
Alarm Management	Yes
3rd-party camera support	Yes
Onvif supported cameras	Yes
PTZ camera support	Yes Erna Analog Protocol
Codecs supported	H.264, MPEG-4 , MJPEG
EasyView Enterprise	License option
EasyView Professional	License option
EasyView VCA	License option
App for smart devices	EasyView GO for IOS/ android



General	
Unit Dimension (W x H x D)	465 x 44,4 x 365,5mm (1U 19")
Unit Weight (without storage)	10.0 kg
Package Dimension (W x H x D)	505x 145,5 x 620mm
Package Weight	12.0 kg
Operation temperature	+5°C to +40°C
Operation humidity	10% to 90%
Power requirements	100V -240V AC/50-60Hz/300W
Power unit	Internal PSU
Languages	Arabic, Danish, Dutch, English, Estonian, Finnish, French, German, Hungarian, Icelandic, Italian, Norwegian, Polish, Portuguese, Russia, Spanish, Swedish
warranty	3 years
Included accessories	Quick guide, User Manual, Mouse, Schuko Power Cable, UK power Cable, rack kit
Part Number	HYDRA-B64

Optional accessories	
EasyView 1 Channel Enterprise license	HYDRA-CH1-ENT
EasyView 1 Channel Professional license	HYDRA-CH1-PRO
EasyView 1 Channel VCA license	HYDRA-CH1-VCA
USB A - Serial RS232 for PTZ	USBADB25
RS232 to R485 Converter for PTZ	ADA25RJ11
2TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-2TB
3TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-3TB
4TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-4TB
6TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-6TB
8TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD-8TB
10TB-HDD Fitted to HYDRA (max 2)	HYDRA-HDD 10TB

* You can add up 32 IP cameras using additional licenses
** Expand beyond 5 Hydras using license option 0063-99995 and 0063-99994.
*** Hydra comes with EasyView installed however you need to order the of channels you require by using the license part numbers.

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