



## Master Vision Datasheet **HI BEST Line**

Our professional solutions from the CCTV line provide functions that go beyond simple image recording. The system was designed to allow the integration of many different services and interoperable systems. Therefore the operation of this complete solution is simplified, the lifetime of the product is increased and the final cost is reduced by reducing the connectivity costs of all the products that compose it.

- Video quality set - auto lighting adjust - revolutionary algorithm that changes automatically the video channel light, having a reference frame, for each video channel;
- Client software provides several modules for fast and easy access to all the data that the operator needs (special joystick functions and E - Map module for representing the data on a 2D multi - layered view of the location;
- Playback - revolutionary and unique backward playback function, even for encoded video data, using differential code;
- Synchronized playback – many video channels and one audio channel;
- Fast scroll - high speed playback (up to 20x key frame interval when a specific event took place.
- Simultaneous live visualization, playback, recording and network transmission;
- Remote – live visualization, remote playback (from any DVR or Client);
- Complete CCTV solution, control access, efferation with unitary monitoring of events;
- Alarms module - allows the triggering of an alarm - video images and sound - for a special event (motion detection, signal from sensor, etc); the user is informed and the event images are displayed;
- Data monitoring module - gives real - time information about captured images - capture rate, encoding and the size image;
- The system can be integrated with the license plate recognition software;
- Master Vision DVR and LPR can be integrated with K - Guard;
- Administrative and service module;
- Data management algorithm;
- Dual encoding allowing different encoding formats and parameters to be set for recording and network transmission, independently on each channel.
- PTZ cameras control and camera setup.

The **Master Vision DVR HI BEST Line** combines the robust data storage platform with real live monitoring and advanced data acquisition & management software features, offering powerful products for authentic enterprise solutions.

## Technical Specification

Simultaneous video channels	16
Analogue video inputs	16 (BNC connector, DVI adapter)
Analogue video level input	1V peak to peak
Analogue video input impedance	75Ω
Analogue video format	PAL, NTSC
IP video streams	up to 16 (optional licence)
<b>Video Recording</b>	
Compression	MJPEG, MPEG4, H.264
Recording mode	Continuous, scheduled, alarm, motion (configurable independently per camera)
<b>Supported Resolutions and Maximum Recording Rates (per Channel / total)</b>	
QCIF (176x144)	25 fps/100 fps   25 fps/200 fps   25 fps/400 fps
CIF (352x288)	25 fps/100 fps   25 fps/200 fps   25 fps/400 fps
2CIF (704x288)	12 fps/100 fps   25 fps/200 fps   25 fps/400 fps
4CIF (704x576)	6 fps/100 fps   12 fps/200 fps   25 fps/400 fps
<b>Display modes</b>	
Display rate	Real live (25 fps maximum resolution)
Display modes (main monitor)	1, 4, 9, 16, custom
<b>Audio Input</b>	
Number of inputs	16
Type	Line-in
Sampling rate	8, 11, 16, 22kHz
<b>Alarm Input</b>	
Number of inputs	8 (optional 16 - max. 2 x DIO Guide)
Type	Dry contact, NO/NC
<b>Video Output</b>	
Main monitor	VGA/DVI
Analogue monitor	Composite 1Vpp, BNC connector - live display of the analogue inputs, same as main monitor scheme
<b>Audio Output</b>	
Number of outputs	1
Type	Line-out
<b>Alarm Output</b>	
Number of outputs	4 (optional 8)
Type	Dry contact, NO/NC

	Best 100	Best 200	Best 400
<b>PTZ Control</b>			
Protocol	Pelco D, American Dynamics AD168		
Controller	USB joystick keyboard (optional)		
<b>Remote</b>			
Remote operation	Complete remote operation via client software		
<b>System</b>			
Operating system	Windows XP Pro		
Mainboard	Intel® Q43 or better		
CPU	Intel® Core™ 2 Quad 2.6 GHz or better		
System disk	Dedicated SSD		
Memory	2 GB		
Optical drive	DVD/RW		
LAN	Ethernet, 10/100/1000 Gbps		
Ports	min. 4 x USB 2.0		
Storage	RAID Controller / Seagate Server Line HDDs 2 x 500 GB   2 x 750 GB   2 x 1,000 GB		
<b>Electrical</b>			
Input voltage:	100 to 240Vac ±10%		
Input frequency range:	47Hz to 63Hz		
Input current:	max 4 A @ 230Vac		
<b>Environmental</b>			
Operating temperature range	+5°C to +40°C		
Operating humidity range	30% to 80%		
<b>Physical</b>			
Enclosure type	Standard 19" Rack Case		
Enclosure height	4U (17.9 mm)		
Enclosure depth	24" (61 cm)		
Colour	Black		
<b>Part Numbers</b>			
ST-DVR-Best16/100-HI	HI Line Best 100, 16 ch, 2 x 500 GB		
ST-DVR-Best16/200-HI	HI Line Best 200, 16 ch, 2 x 750 GB		
ST-DVR-Best16/400-HI	HI Line Best 400, 16 ch, 2 x 1000 GB		
DIO-0404	4 sensor inputs & 4 alarm outputs		
DIO-0808	8 sensor inputs & 4 alarm outputs		
ST-KBD-X3100	CCTV Joystick Keyboard, USB		

## Typical Connection Diagram

