



Master Vision Datasheet **Pro 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, effraction 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.

Technical Specification

	Best 100	Best 200	Best 400
Video Input			
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)		
Video Recording			
Compression	MJPEG, MPEG4, H.264		
Recording mode	Continuous, scheduled, alarm, motion (configurable independently per camera)		
Supported Resolutions and Maximum Recording Rates (per Channel / total)			
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
Display modes			
Display rate	Real live (25 fps maximum resolution)		
Display modes (main monitor)	1, 4, 9, 16, custom		
Audio Input			
Number of inputs	16		
Type	Line-in		
Sampling rate	8, 11, 16, 22kHz		
Alarm Input			
Number of inputs	optional 8 ÷ 16 (max. 2 x DIO Guide)		
Type	Dry contact, NO/NC		
Video Output			
Main monitor	VGA/DVI		
Analogue monitor	Composite 1Vpp, BNC connector - live display of the analogue inputs, same as main monitor scheme		
Audio Output			
Number of outputs	1		
Type	Line-out		
Alarm Output			
Number of outputs	4 (optional 8)		
Type	Dry contact, NO/NC		

	Best 100	Best 200	Best 400
PTZ Control			
Protocol	Pelco D, American Dynamics AD168		
Controller	USB joystick keyboard (optional)		
Remote			
Remote operation	Complete remote operation via client software		
System			
Operating system	Windows XP Pro		
Mainboard	Intel® G43 or better		
CPU	Intel® Core™ 2 Duo 2.8 GHz or better		
System disk	Same as DataBase Disk, dedicated partition		
Memory	2 GB		
Optical drive	DVD/RW		
LAN	Ethernet, 10/100/1000 Gbps		
Ports	min. 4 x USB 2.0		
Storage	Seagate Server Line HDDs 500 GB 1,000 GB 1,000 GB		
Electrical			
Input voltage:	100 to 240Vac ±10%		
Input frequency range:	47Hz to 63Hz		
Input current:	max 4 A @ 230Vac		
Environmental			
Operating temperature range	+5°C to +40°C		
Operating humidity range	30% to 80%		
Physical			
Enclosure type	Standard 19" Rack Case		
Enclosure height	4U (17.9 mm)		
Enclosure depth	19.8" (50.3 cm)		
Colour	Black		
Part Numbers			
ST-DVR-Best16/100-Pro	Pro Line Best 100, 16 ch, 500 GB		
ST-DVR-Best16/200-Pro	Pro Line Best 200, 16 ch, 1,000 GB		
ST-DVR-Best16/400-Pro	Pro Line Best 400, 16 ch, 1,000 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

