



# Seon™ 2100

## Digital image management system

### Easy to use

Seon™ 2100 is an advanced cctv management system that meets the needs of both the occasional user and the full-time security professional.

Superior image quality and ease of use are today's catch-phrases. Seon™ 2100 presents clear, sharp digital images of what's happening now, yesterday, or weeks earlier; from one or multiple cameras. Control of your surveillance system becomes a simple and intuitive process that allows you to remain focused on the observing what is actually happening.

### Flexible operation

Reliable triplex operation enables simultaneous display of live and replay images in a number of easily configured split-screen formats with uninterrupted recording of all cameras. Quickly select the correct display format for each situation. Seon™ 2100 supports single, PIP, Quad, 1+7, 1+12 and 4x4 camera display formats and synchronised simultaneous replay of up to 8 cameras.

One mouse-click switches from single to multi-camera display. One more click switches another camera to full-screen or displays the next page of split-screen format.

Seon™ 2100 instantly replays images from incidents that have just happened with a single mouse-click. The easy to use review tools quickly locate images from a specific camera, time, alarm or incident, from days, or even weeks earlier. Replay images can be printed or copied to CD with the inbuilt CD writer.

### Sophisticated tools

For the security professional, Seon™ 2100 has a real-time display mode and inbuilt telemetry for control of PTZ cameras. Activity detection and external alarm inputs can be programmed to prompt users, modify the recording process and signal external devices. The bookmark key enables observed incidents to quickly tagged for later review. Separate PIN codes are provided for a supervisor, four operators, and a site administrator, with operator access able to be limited to specific functions and display formats.

### Easy install

Seon™ 2100 is designed for installation within both new sites and existing systems as a replacement for traditional multiplexers and TL-VCRs. Installation is a quick and uncomplicated process. All camera inputs have loop-thru and all auxiliary connectors are removable screw-terminals.

Cameras are automatically recorded once the initial power-up sequence is complete. Adjusting system operation to meet site specific requirements is an intuitive process that can be quickly undertaken by installers or administrators. The clone function speeds similar installs and provides a backup of site-specific programming.



### Features

- Purpose built triplex digital image management system for 8 or 16 cameras with storage capacities from 80 to 1200GB
- Continuous recording at optimal quality and update rate for all cameras using optimised H.263/H.261 codec for best single image clarity
- Simultaneous live multi-camera display, record and replay functionality with concurrent image copying to CD-ROM and hardcopy printing
- Intuitive mouse driven user interface
- Simple one-click switching from multi-camera display to full-screen live display of single cameras
- Synchronised replay of up to 8 cameras simultaneously with rapid image search by camera, alarm, activity level, date & time
- On-screen indication of programmed external and activity generated alarms with one-click last alarm review
- Activity detection with user defined detection grid and sensitivity for each camera
- Control and programming of variable speed pan/tilt/zoom cameras
- Separate monitor output for sequential public display with the option of dynamic skip of high interest cameras
- Incident key to bookmark operator observed events
- Optional alarm module with 8 freely programmable inputs and 4 form-C relay outputs
- Auto recovery following power interruption
- Video loss and system integrity reporting
- Reference image storage for each camera and programmed preset position
- Adjustable automatic deletion of oldest images to meet local legal requirements
- Programmable automatic screen-lock or view-lock to prevent unauthorised viewing
- Administrator, supervisor and 4 separate user PIN codes
- Limit user access to specific functionality, including camera viewing, image replay, image printing and copying
- Programmable stop-timers to routinely inhibit recording of sensitive areas for specific times, days of the week and cameras with optional alarm override
- Clone-out to CD-ROM and Clone-in functions for rapid setup of similar installations
- Network ready
- 2 year warranty, including hard drives

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## Technical details

### Images per second (ips) per camera

Connected cameras	2 compressor models	4 compressor models
2	12.50	12.50
4	6.25	12.50
6	4.17	6.25
8	3.13	6.25
10	2.50	4.17
12	2.08	4.17
14	1.79	3.13
16	1.56	3.13

### System

User interface	Optical mouse (supplied)
Video inputs	8 or 16 auto-terminating loop-thru (BNC connectors)
Input format	PAL or NTSC, composite video
Stored image pixels (H x V)	704 x 288 (2CIF) or 352 x 288 (CIF) >16 million colours
Image file size (average)	20K (2CIF) or 10KB (CIF) for typical CCTV scenes
Video codec	Optimised H.263/H.261
Operating system	Embedded Linux (2GB separate partition)
Internal storage system	Hard-disk configured as continuous video loop (max. 6 internal disks)
Internal storage capacity	80, 180, 360, 600, 800 or 1200GB
Image export	JPEG images to CD-ROM

### Connectivity

Main monitor	S-VGA (HDDB-15 connector), composite video (BNC connector), or Y/C (4-pin mini-DIN connector)
Public display monitor	Composite video (BNC connector)
Printer	Parallel port (female DB-25 connector)
Telemetry	RS-422/RS-485 (removable screw terminals)
Network	100base-T4 Ethernet (RJ-45 connector)

### Electromechanical

Power requirements	115/230VAC, 50/60Hz switchable (IEC 320/EN 60320 mains inlet)
Power consumption	500W max.
Operating temperature	0 ~ 45°C (32 ~ 122°F)
Relative humidity	90% max. non-condensing
Dimensions (W x H x D)	443 x 128 x 465mm, 3U (17.5 x 5.1 x 18.3 inch); suitable for rack mounting
Weight	14.5kg max. (32lbs max.)

### Certifications

Safety standards	EN 60065:1998
EMC standards	EN 50130-4:1996 EN 55022 Class B:1998 EN 61000-3-2 EN 61000-3-3 FCC part 15 Class B



### Optional alarm module

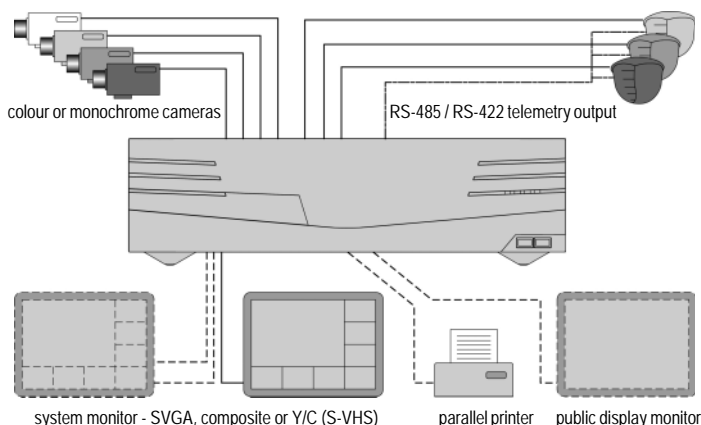
Alarm inputs	8 x volts-free contacts (removable screw terminals)
Relay outputs	4 x form-C (C, NO, NC), (removable screw terminals)
Relay contact rating	230VAC, 2A max. or 30VDC, 4A max.

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## System diagram



## Order codes

### 8 camera, 2 compressors

SDR2108-008-2-xx <sup>a</sup>	80GB
SDR2108-018-2-xx <sup>a</sup>	180GB
SDR2108-036-2-xx <sup>a</sup>	360GB <sup>b</sup>
SDR2108-060-2-xx <sup>a</sup>	600GB <sup>b</sup>
SDR2108-120-2-xx <sup>a</sup>	1200GB <sup>b</sup>

### 16 camera, 2 compressors

SDR2116-008-2-xx <sup>a</sup>	80GB
SDR2116-018-2-xx <sup>a</sup>	180GB
SDR2116-036-2-xx <sup>a</sup>	360GB <sup>b</sup>
SDR2116-060-2-xx <sup>a</sup>	600GB <sup>b</sup>
SDR2116-120-2-xx <sup>a</sup>	1200GB <sup>b</sup>

### 16 camera, 4 compressors

SDR2108-008-4-xx <sup>a</sup>	80GB <sup>c</sup>
SDR2108-018-4-xx <sup>a</sup>	180GB <sup>c</sup>
SDR2108-036-4-xx <sup>a</sup>	360GB <sup>c</sup>
SDR2108-060-4-xx <sup>a</sup>	600GB <sup>c</sup>
SDR2108-120-4-xx <sup>a</sup>	1200GB <sup>c</sup>

### Accessories & upgrades

SDR2100-IOM	Alarm input—output module
SDR2100-RK	Rack-mount bracket set
SDR2100-IK16	8 to 16 camera upgrade kit

<sup>a</sup> xx = EU, GB, US, AU or CH by-pack code

<sup>b</sup> Extended lead-time item

<sup>c</sup> Contact supplier for availability

### Rear of 16 camera model

(optional alarm module fitted)



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