



# **V**3100

Video Security System

training





### specifications (1)



1		
Video input	4, 8, 12 or 16 cameras PAL/NTSC	
Video output		
Video compression	·	
Video resolution (PAL)	352 × 288 (CIF), 704 × 288 (2CIF)	
	528 × 384 (DCIF)	
	704 × 576 (4CIF)	
Video resolution (NTSC)	352 × 240 (CIF), 704 × 240 (2CIF)	
	528 × 320 (DCIF)	
	704 × 480 (4CIF)	
lmages/second	25 ips/camera (PAL); 30 ips/camera (NTSC)	
	CIF, 2CIF, DCIF, 4CIF*	
Bandwidth consumption	6 ips CIF: 70kb/sec, 12ips 4CIF:	
	400kb/sec in optimum quality	
Bandwidth	Remotely adjustable:	
	compression, ips and quality	
Audio input	1 per camera	
Motion detection	4 zones adjustable per camera	
System	PC platform - Linux OS	
Audio compression		
Relay outputs	4 relay outputs on BASIC I/O card; 4 relay outputs on	
	EXTENSION I/O card	
Command inputs	8 monitored inputs on BASIC I/O card; 12 monitored	
	inputs on EXTENSION I/O card	
External I/O	Up to 128 inputs and 128 outputs through Ethernet IO	
	modules	



### specifications (2)

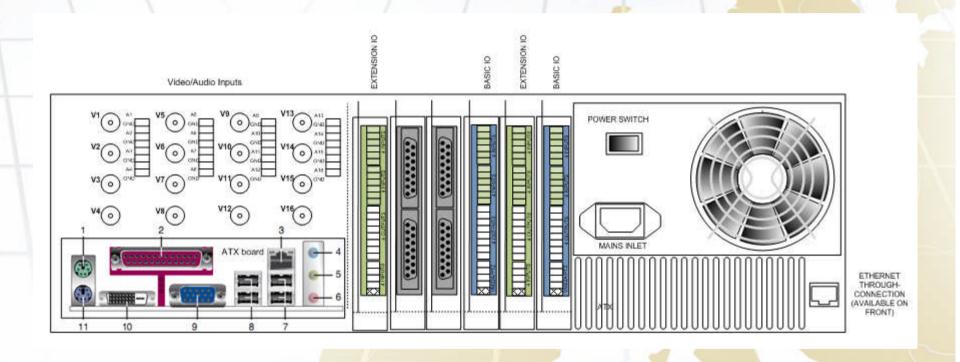


Network protocols	TCP, UDP, FTP, TELNET, HTTP, SMTP, RTSP, RTP,	
Application update	Local and remote	
Web server	Integrated	
COM ports	4 USB interfaces, used for:	
	camera control (requires an USB to RS485 convertor)	
	terminal or ATM (requires an USB to RS232 convertor)	
Ethernet	10/100/1000 Base-T, auto detection,	
	full duplex, RJ45	
Storage	, ,	
	following arrangements are possible:	
	1 to 4 internal hard disks (160/320/500GB)	
	1 to 2 removable devices, such as a DVD writer or a	
	removable hard disk; each removable device replaces an internal hard disk!	
	Remarks: different fronts are available for the 19" model,	
	to accomodate 1 or 2 removable storage devices .	
Recording type	Continuous, event, input, motion detection,	
	Alarm over IP (FOXnet®Plus)	
Remote visualisation	Internet Explorer; Windows XP, Vista,	
	Server 2003	
PTZ cameras	Yes, extensive list available (Visca, Kalatel, Pelco, JVC)	



### rear connectors (19")







## rear connectors (desktop)

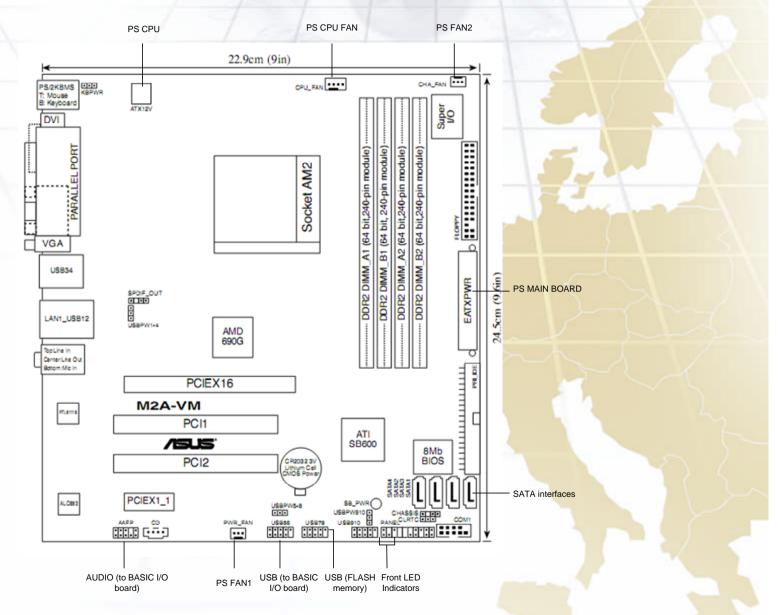






#### main processor board



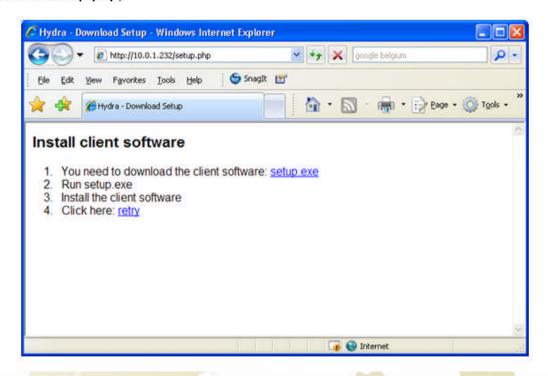




#### install V3100 application



- Open Internet Explorer
- type the IP address of the V3100 in the Address bar (including the setup page: example http://10.0.0.10/setup.php)



WARNING! the video security system is preset to IP address 10.0.0.10 with submask 255.255.255.0



### launch application



P	On the desktop, double click the HydraApp shortcurt	
•	Click to add a V3100 video system	
ID my_hydra  IP 10.0.1.232  RTSP 554  CTRL 2000  TCP  USER 0  PASS ••••••	Enter a description. Enter the IP address of the V3100 Set RTSP and CTRL ports (if no defaults are used) Select TCP or UDP (TCP may be required if the connection goes through routers that block UDP packets) Enter the user number and password of an existing user	
	Save the added device.	
THE STATE OF THE S	Select a V3100 video system from the displayed list and click this button to connect to it.	



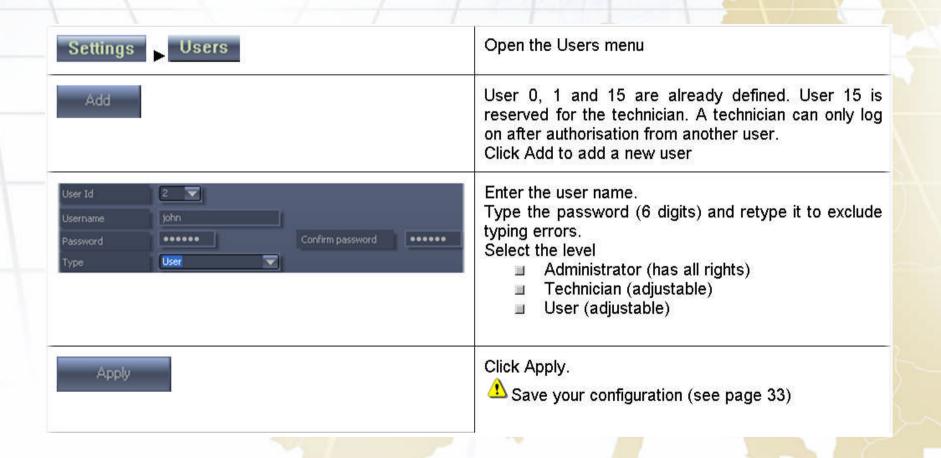
#### set ip address













#### add a camera







create a continuous recording





### record on motion (1)

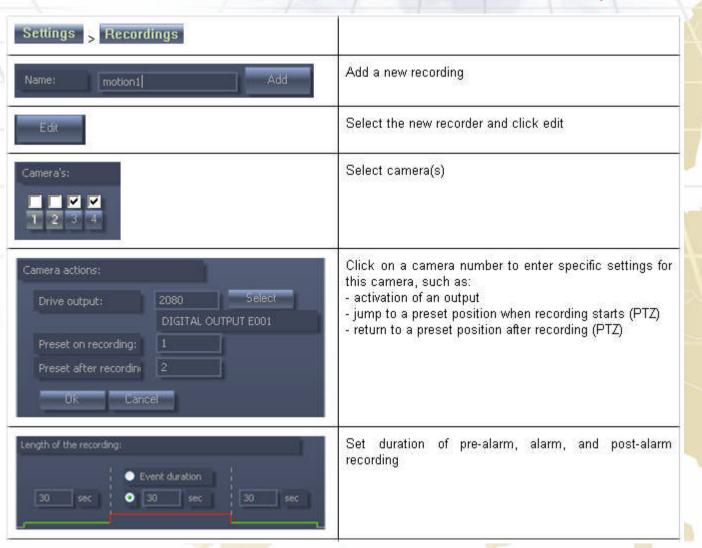


Motion	Click to open the motion detection configurator	
	Select a camera	
	Correct brightness, contrast and hue if needed	
Add	Add a motion zone Up to 4 zones can be defined per camera.	
	Position and resize the detection zone	
	Adjust sensitivity and threshold, when motion is detected, the area corners turn green.  Sensitivity sets the change in luminance required to detect an object  Threshold sets the number of pixels that should change in order to detect motion, this parameter sets the size of the objects that should be detected, and allows to suppress false events such as small animals passing by.	



### record on motion (2)







#### record on motion (3)







### record on motion (4)



	Drag the mouse pointer over the Alarm time scale to mark the time zone during which the recording should be active. To correct for errors, right-click the drawn time zone and retry.  Up to 8 time zones can be defined.	
Data:  Mo Tu We Th Fr Sa Su Va  V V V V V   1 Januari -> 31 December  Add Remove Uk	To use this recording condition only on specific days, click Data and select the desired days (monday > sunday, holidays). The recording is by default active during the full year, to apply only for limited periods, delete the listed period and add a customised period.	
Always start new recording:	If a new event occurs before ending the current recording, the system will proceed as follows: If this option has been checked, the current recording will be stopped and a new recording will be started If this option has been unchecked, the recording will continu.	
Lock:	Check the Lock option if the recording should only be deleted on demand. WARNING: locked recordings may cause the hard disk to fill up until it is full. At this state, an alarm will be generated. (15 HARD DISK FULL).	
Ok .	Save the recorder.	



#### ethernet IO (features)

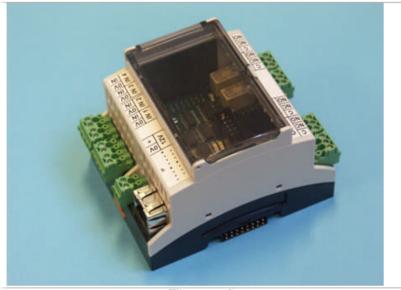


#### **Features**

Unit, with LED indicators, contact inputs and relay outputs, controlled by the V3100 video recorder. The unit is controlled by the host system through the Ethernet network.

The base unit offers:

- 3 LED indicators (red: recording / yellow: fault / green: power supply)
- 4 voltage-free contact inputs (default = NO)
- 4 relays (voltage free switchover contacts) each with status LED
- Mounted on DIN rail
- Extendible with one to four extension units. Extension units are powered from the base unit, each offers 4 additional contact inputs and 4 relay outputs
- Base unit is powered by a local adapter (12VDC; 800mA) or by a PoE switch or injector.



Base unit

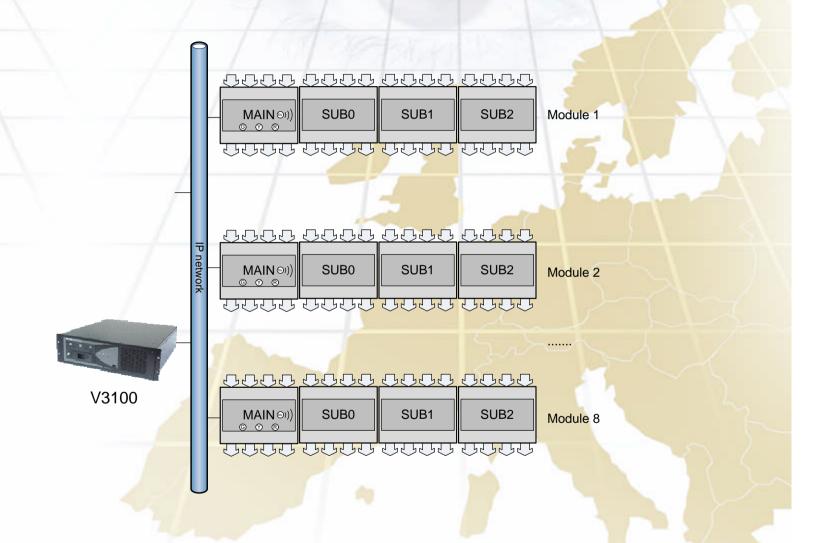


Extension unit



### ethernet IO (connection)







## ethernet IO (add)



System > 10	Open the NetlO configuration menu.	
Add	Click Add to add a NetlO interface.	
IP address  Port 3041  Address 1  Ok Cancel	Enter IP address, port number (the port to which the NetIO module is listening) and order number of each NetIO module) Click OK.	
Apply	Click Apply.	



### ethernet IO (configure IO)

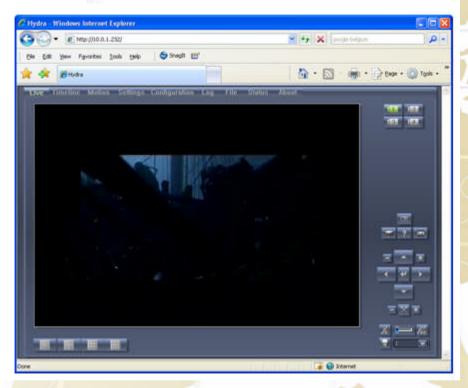


-	System > 10	Open the NetIO configuration menu.	
	NetIO modules  1 - 10.0.1.242 :3041  2 - 10.0.1.243 :3041	Select a NetIO interface from the list.	
	System	Click System to program: inputs : NO or NC outputs: failsafe	
	General  Name Ethernet DIO module	Modify name of NetIO module	
	NetIO protocol  Port: 3041  Timeout 60	Modify port of NetIO module (has to be the same port as the one selected when the NetIO module was added)	
	NetFinder protocol Port 3040	Modify port used by the Netfinder tool (an external tool used to program the IP address of the module and to update its software)	
	Special special 1 2 2 4 5 6 7 6 9 10 11 12 12 14 15 16 Invented	Invert inputs (NC). If not checked, the input is NO.	
	### ##################################	Select outputs that will be used for: failsafe operation: relay is inverted (activated when idle) watchdog outputs: activated on communication time-out (NetIO protocol time out) error outputs: activated concurrent with the yellow error LED	
	Арру	Click Apply.	





Click to watch live images from one or several cameras.

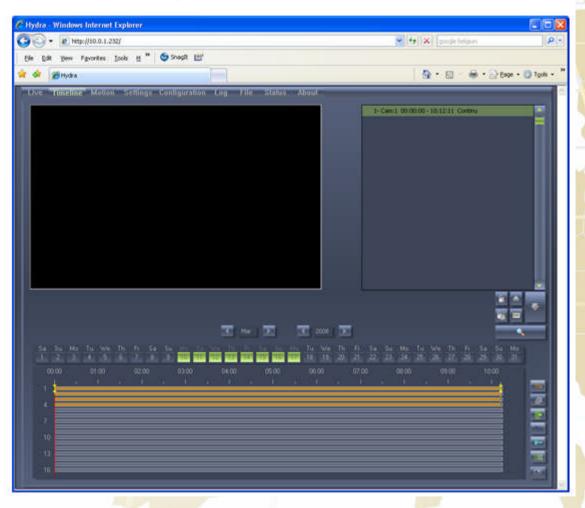




# retrieve recordings (timeline) xtralis.



Open Timeline to look up recordings





### retrieve recordings (postmotion)



