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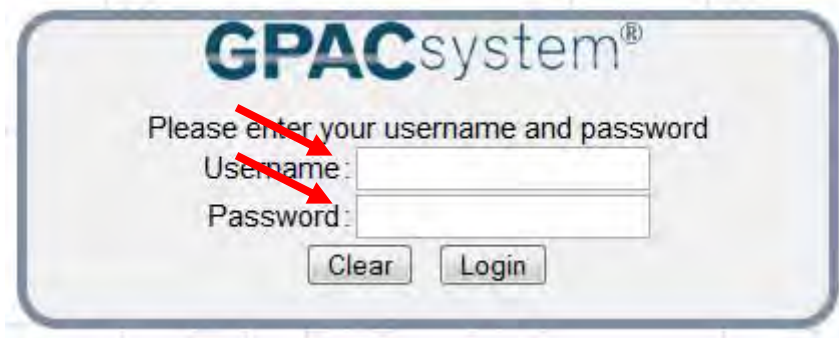
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Logging into the GPAC System®

The GPAC System® requires the user to log in before it is usable. The following screen will be shown in which the user will need to input their username and password and click on login to proceed to the main GPAC System®.

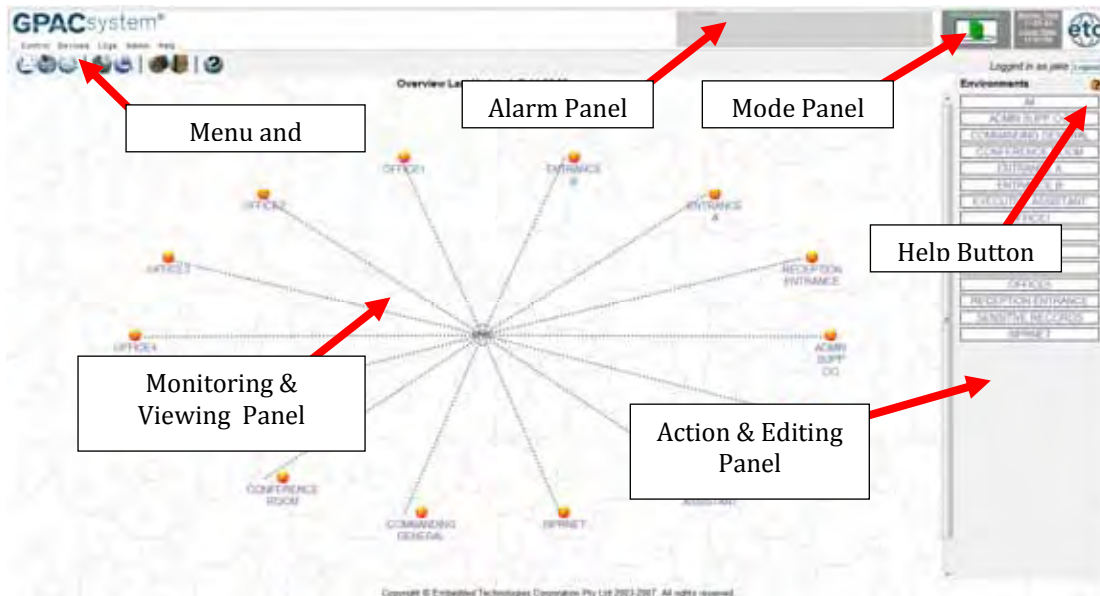


The image shows a login form for the GPAC system. At the top, the text "GPACsystem®" is displayed in a blue font. Below this, the instruction "Please enter your username and password" is centered. There are two input fields: "Username:" and "Password:". Two red arrows point from the instruction text to the respective input fields. At the bottom of the form, there are two buttons: "Clear" and "Login".

To login the user will require a username and password if you do not have one then contact the system administrator to organise one.

GPAC System® Layout

Once logged in the main page of the system will be the overview page. The menu is in the top left corner under the GPAC System® logo. A toolbar is also located at the same location just under the menu. The menu and toolbar are the main ways of accessing the rest of systems functions.



The area on the right is the system status panel which is comprised of three different panels, the alarm panel, mode panel and time panel.

The alarm panel displays an up to date listing of alarms as they are received by the GPAC System®. This area lists priority messages to users logged in to the GPAC. The user can then quickly react to incoming events. Any devices in the alarm will be displayed here. The alarm can be acknowledged by selecting the alarm log from this listing, preventing any more alerts being generated from this device for this alarm generation.

The mode panel indicates the current running operation of the GPAC server. If the GPAC is actively running and monitoring devices, the text and icon are green. When the GPAC has been stopped, it is no longer controlling devices and the text and icon are red.

The time panel displays the time from the GPAC server perspective and from the client browser perspective. The GPAC time may not be synchronised with the client browser time for reasons of geographical separation, or misconfiguration. This display aids in searching event logs or correcting time offset differences.

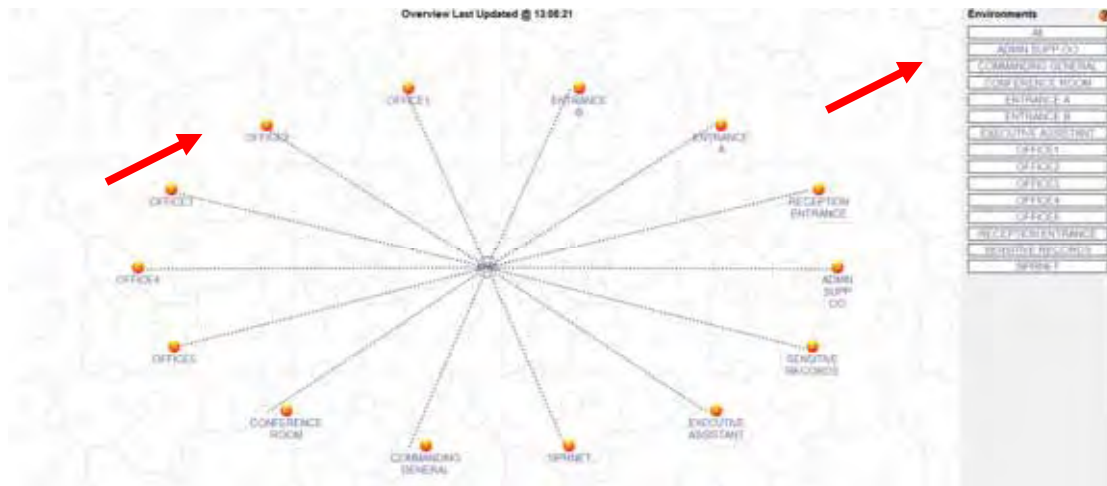
The help button is a very useful page specific help button which will bring up the help for current page that the user is at.

Overview Page

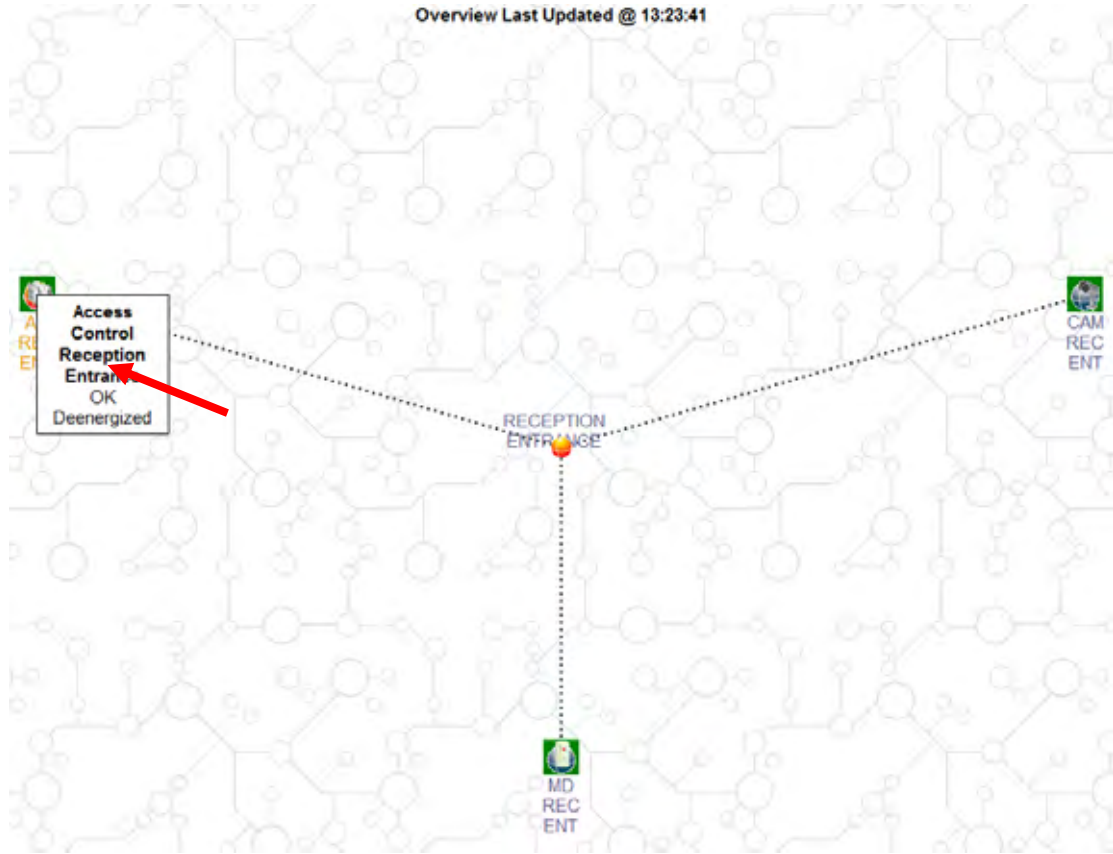
The overview page displays a broad system view from the environments down to the devices configured. It provides a hierarchical view of the configuration of the GPAC System®. The overview is accessible by clicking on the GPAC System® logo, selecting it from [Control / Overview](#) from the drop down menu, or clicking on the button on the toolbar.



By clicking on the environment either on the panel or on the icon the user will be taken down to the device level with each device in the chosen environment being displayed as a branch in the overview.



In the second level overview display if the user places the mouse over a device the current status of the device will be shown, by selecting the device however, the user will be taken directly to the device table and have the chosen devices setting shown in the editing panel.



Device Matrix

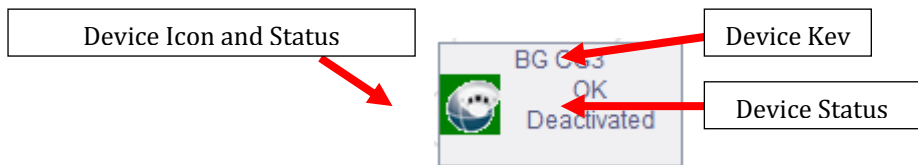
The device matrix is one of the alternative views available for the user to monitor the status of devices. In this particular view the user is presented with an array of devices organised into environment groups to allow statuses of multiple devices to be checked at a glance. The device matrix can be accessible by selecting [Devices / Device Matrix](#) from the drop down menu or by clicking the button on the toolbar.



The user may view the devices in one particular environment by simply clicking on an environment from the list or on the bar.



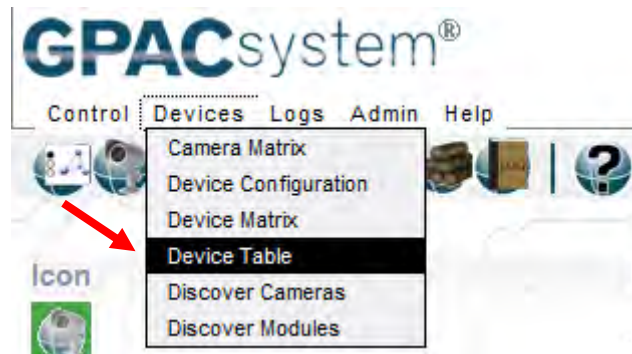
Each device is represented in a rectangular box with its device key and current status showing. These devices are sortable and so are the environment groups.



By selecting a device the user will be taken directly to the device table and have the chosen devices setting shown in the editing panel.

Device Table

The device table is one of the alternative views available for the user to monitor the status of devices. In this particular view the user is presented with a table of devices allowing the user to easily see the properties of multiple devices and to edit them. Selecting [Devices / Device Table](#) from the drop down menu.



The listing can be sorted by any of the title fields by selecting the title to sort by. More information can be viewed by selecting a device from the list. Once in detailed view, the device can be removed by selecting Delete and confirming the action. Editing the properties of the device is also performed at this stage by selecting Edit. Depending on the device being viewed, other buttons may appear.

If there are many devices configured, the listing may span multiple pages and the navigation for this is located below the device table list.



Camera Matrix

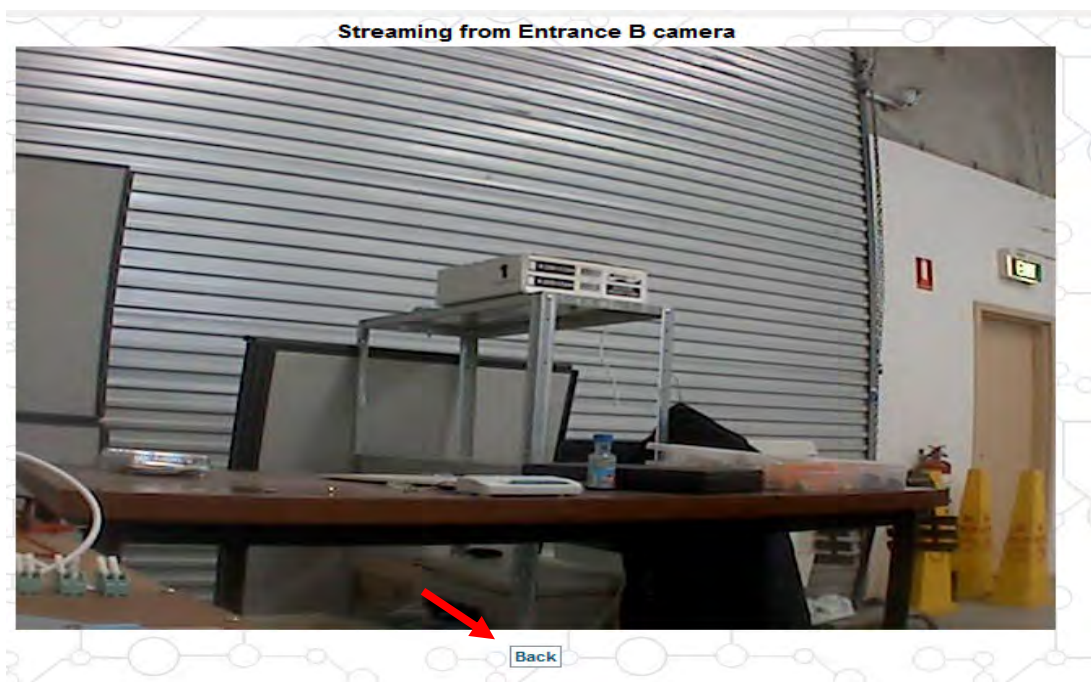
The camera matrix allows the user to monitor the status of cameras and view the video streams. In this view the user is presented with an array of camera video streams that can be organised into environment groups or viewed all at the same time. This will allow multiple cameras to be monitored at a glance. The camera matrix can be accessible by selecting [Devices / Camera Matrix](#) from the drop down menu or by clicking the button on the toolbar.



The user may view the cameras in one particular environment by simply clicking on an environment from the list. To view full sized video streams from a particular camera simply click on the camera.



To go back to the camera matrix from the full size view the user will need to click on the back button.



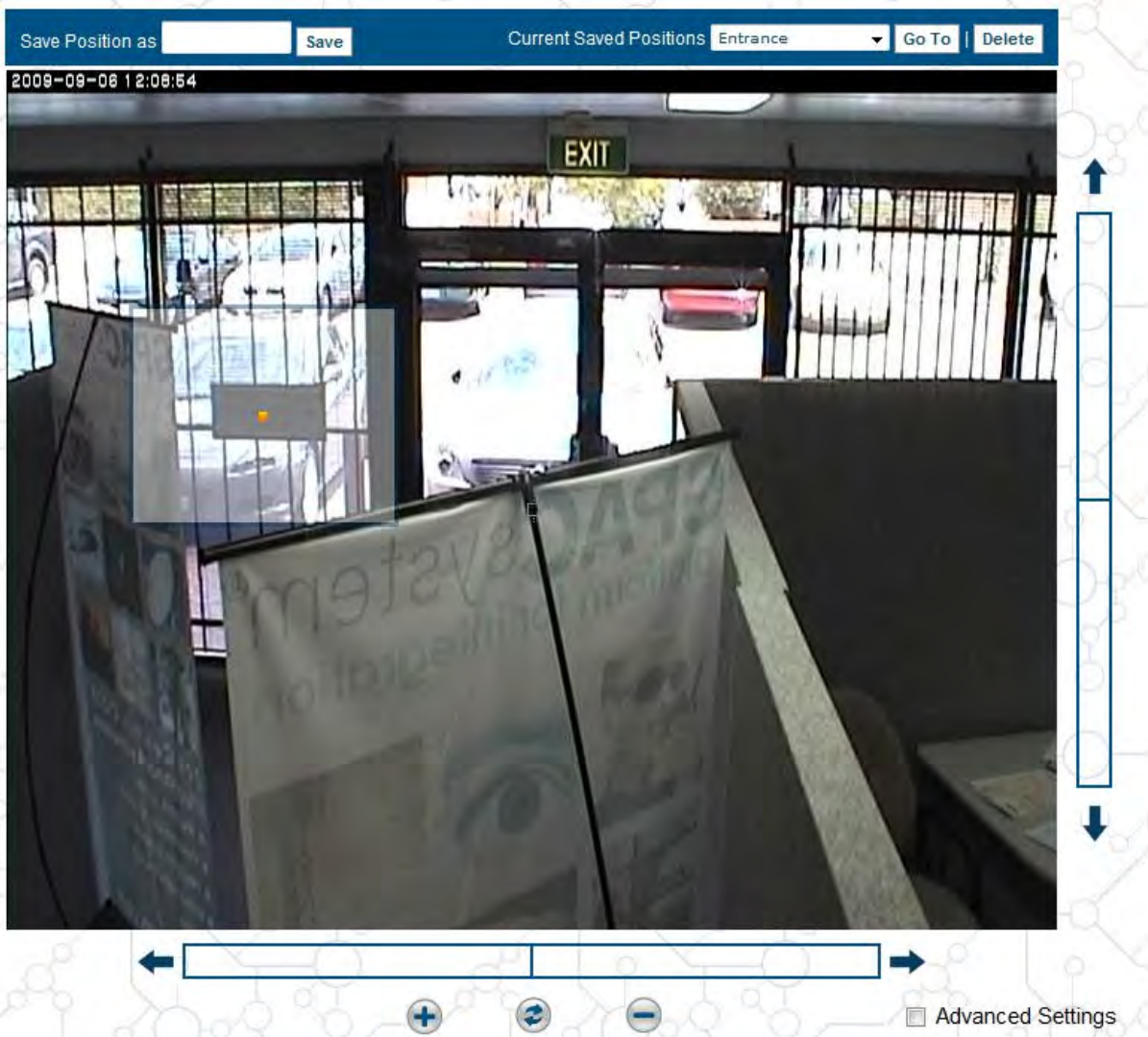
PTZ Camera Control

For cameras with PTZ capabilities additional controls are available to pan / tilt / zoom the camera, and GoTo a selected pre-stored viewing position.

Centre on Click

Left mouse button click anywhere on the video image, and the PTZ camera will centre its viewing on the clicked position.

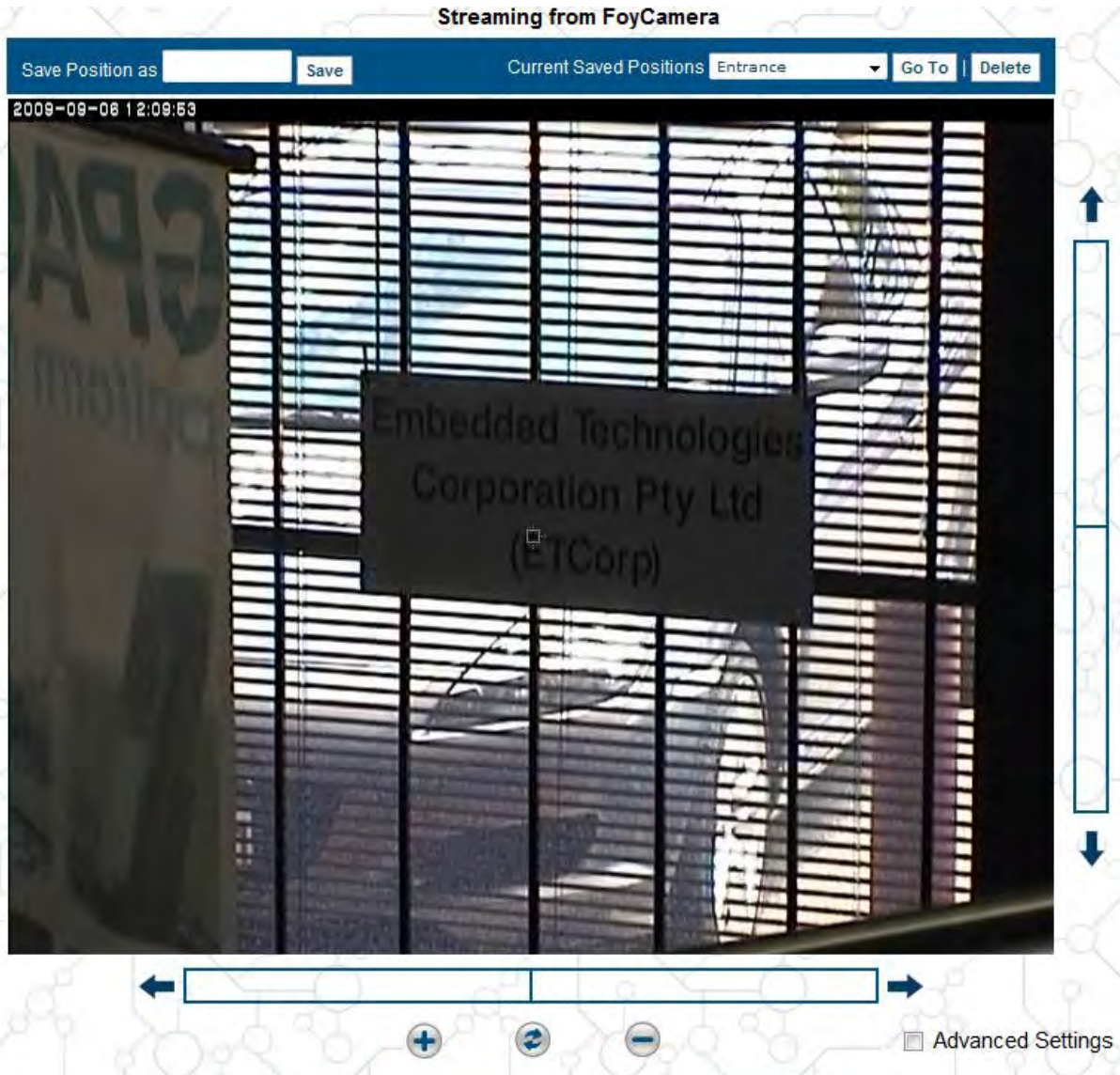
Centre and Zoom on Rubber-band



Draw a rubber-band using the left mouse button on the video image, and the PTZ camera will centre on the middle of the selected area, and zoom to the limits of the rubber-band area. The first selected point of the rubber-band area MUST be within the video image. The centre of the rubber-band area MUST lie within the limits of the video image. When holding down the left mouse button to define the rubber-band area, it will be limited so that the centre remains within the video image.

Zoom Controls

Zoom controls include a fixed size incremental zoom in, reset zoom and fixed size incremental zoom out.



Pan / Tilt Controls

The viewing position of the camera can be controlled by using the pan / tilt control bars to the bottom/ side of the video image. By clicking on the pan / tilt bars the camera will carry out an absolute move to that position. By clicking in the centre of the pan or tilt bars, then the camera will move to its centre pan or tilt position. By clicking on the extreme left of the pan control bar, the camera will move to its maximum anticlockwise position. By clicking on the extreme right of the pan control bar, the camera will move to its maximum clockwise position. Similarly by clicking on the top of the tilt control bar, the camera will move to its maximum up position and by clicking on the bottom of the tilt control bar, the camera will move to its minimum tilt position. For both the pan

and tilt control bars, by clicking partially along the control bars, the camera will move proportionally to its absolute maximum / minimum position.

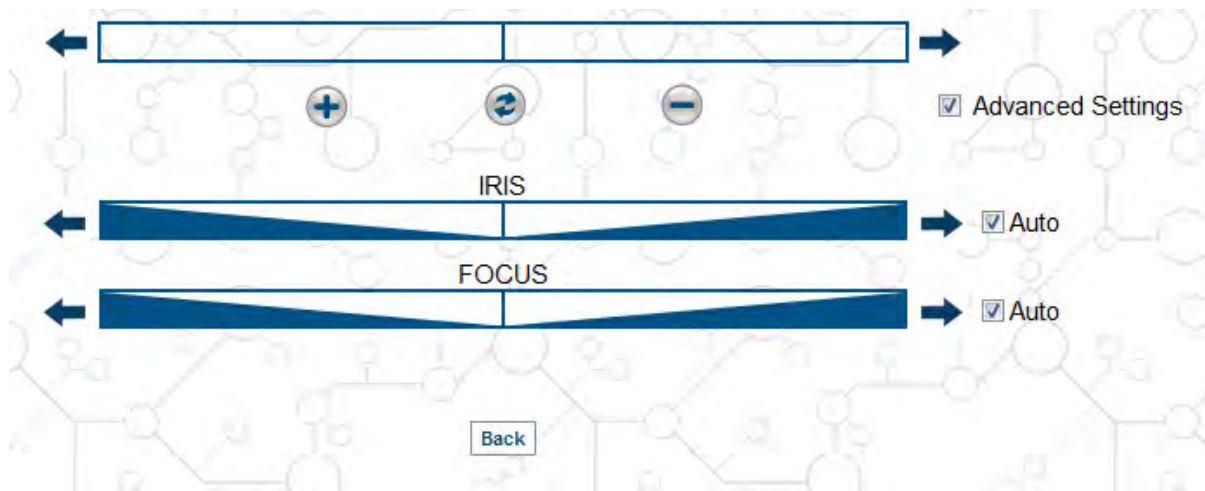
The arrow icons by each of the pan / tilt control bars provide incremental pan / tilt control.

GoTo Position

Predefined positions can be saved for the PTZ camera to move to. To save a viewing position, move the camera to the required tilt / pan / zoom position, type in a name for the position, and press the *Save* button. The maximum number of possible stored positions is camera dependent. Select a position from the Current Saved Positions list and the camera will move to that position. To delete a position, select it from the Current Saved Positions and press the *Delete* button.

Advanced Settings

These settings are made available by ticking the Advanced Settings box.



Iris Control

With Auto Iris deselected, manual relative incremental control can be applied to the camera. The closer to the centre of the iris control bar, the smaller the increment/decrement to the iris. The further away from centre of the iris control bar, the larger the increment/decrement. At any time Auto Iris can be reselected. The arrow icons to the side of the iris control bar, provide a predefined fixed increment for iris control.

Focus Control

With Auto Focus deselected, manual relative incremental control can be applied to the camera. The closer to the centre of the focus control bar, the smaller the increment/decrement to the focus. The further away from centre of the focus control bar, the larger the increment/decrement. At any time Auto Focus can be reselected. The arrow icons to the side of the focus control bar, provide a predefined fixed increment for focus control.

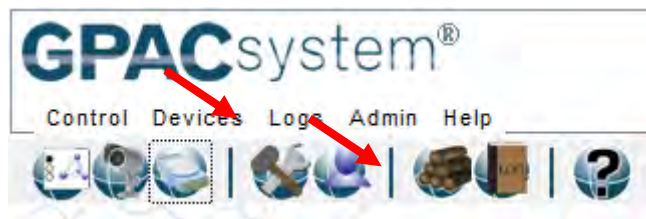
Checking Logs

The GPAC System® logs both events and videos. The video logs consist of recorded video clips that were triggered by configured events. Whereas the events log shows the events that the GPAC System has logged. These can be separated in to the categories of:

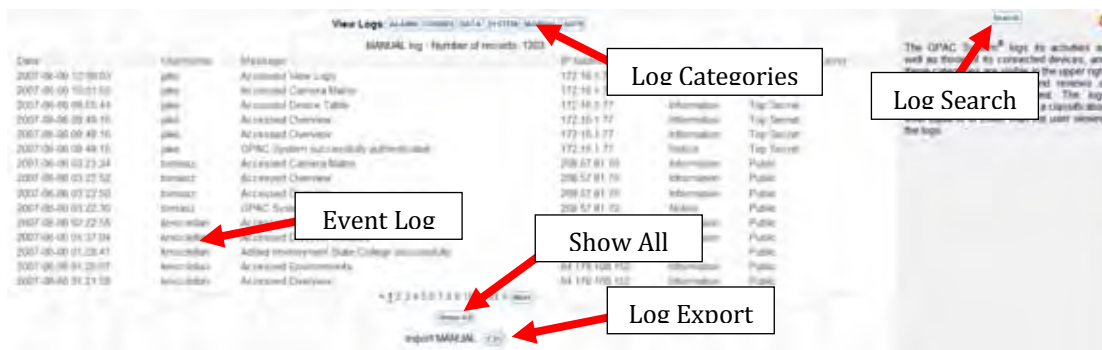
- ALARM - Alarm logs indicate when the system was in an alarm state.
- COMMS - Communication logs contain information about GPAC transmissions.
- DATA - Data logs contain values from devices that are being monitored directly.
- SYSTEM - System logs contain the actions the GPAC has performed based on input criteria.
- MANUAL - Manual logs show any manual activity occurring on the GPAC.
- AUTH - Authentication logs show both GPAC and system level access.

Event Logs

The event logs can be accessible by selecting view logs from the menu under log or by clicking the button on the toolbar.



The following diagram is the view log page:




The view log page is split into the categories mentioned above however all logs can be viewed at the same time if the user wishes it by clicking on the show all button. The logs can also be sorted by any of the title fields by selecting the title to sort by.

It is common to have log files that are very big and the user may just want logs to a specific range of dates or time. That is why a search feature is provided so that only the relevant logs are displayed. The user will need to select the start and end date and time and select the log options and then click on search, the results will then be displayed back in the table.

Search Logs


Please Select Your Search Log Options:

Start Date & Time

Date : Jun ▾ 7 ▾ 2007 

Time : 00 ▾ : 00 ▾ : 00 ▾

End Date & Time

Date : Jun ▾ 7 ▾ 2007 

Time : 10 ▾ : 37 ▾ : 12 ▾

Log options

Log Type : MANUAL ▾

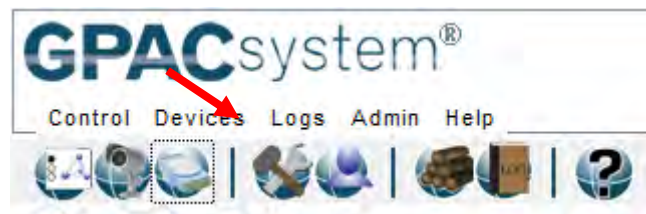
Log Level : Any ▾

Classification Level : Any ▾

Search Strings :

Video Logs

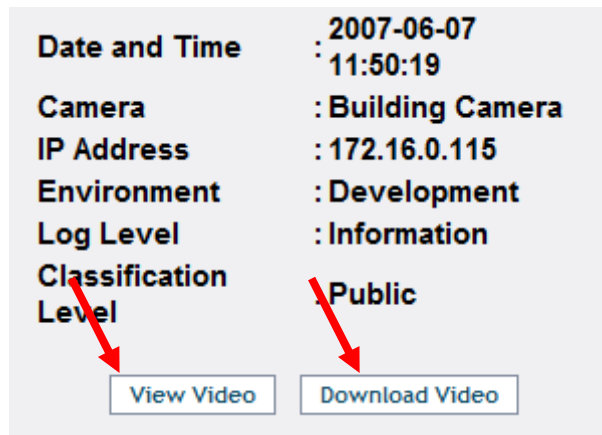
The video logs can be accessible by selecting video logs from the menu under log.



The video logs are very similar to the view logs in the layout and functionality with the exception that it will display and make available recorded video for download. The following diagram is the view log page:




The video logs can be sorted by any of the title fields by selecting the title to sort by. To view a particular video all that needs to be done is select a particular video log, this will display the log information in the adjacent box with the two options of viewing the video on the browser or downloading the video.



It is common to have a large quantity logs that are very big and the user may just want video logs within a specific range of dates or time. That is why a search feature is provided so that only the relevant logs are displayed. The user will need to select the start and end date and time and select the camera and then click on search, the results will then be displayed back in the table.


Video log search parameters

Start Date & Time

Date : Jun ▾ 7 ▾ 2007 

Time : 00 ▾ : 00 ▾ : 00 ▾

End Date & Time

Date : Jun ▾ 7 ▾ 2007 

Time : 11 ▾ : 59 ▾ : 13 ▾

Log Level : Any ▾

Classification Level : Any ▾

Camera : Any ▾

Save Changes

The purpose of save changes is to store any user configurations that have been made to the system permanently. This is done because changes made while the system is running are only kept as long as the system is running. If the system is rebooted or shut down however these configurations will be lost and the next time the GPAC System® is started it will load the last saved configuration. It is therefore very important to make sure changes are saved once configuration is done. In order to save changes the user has to access the save changes page from the menu.

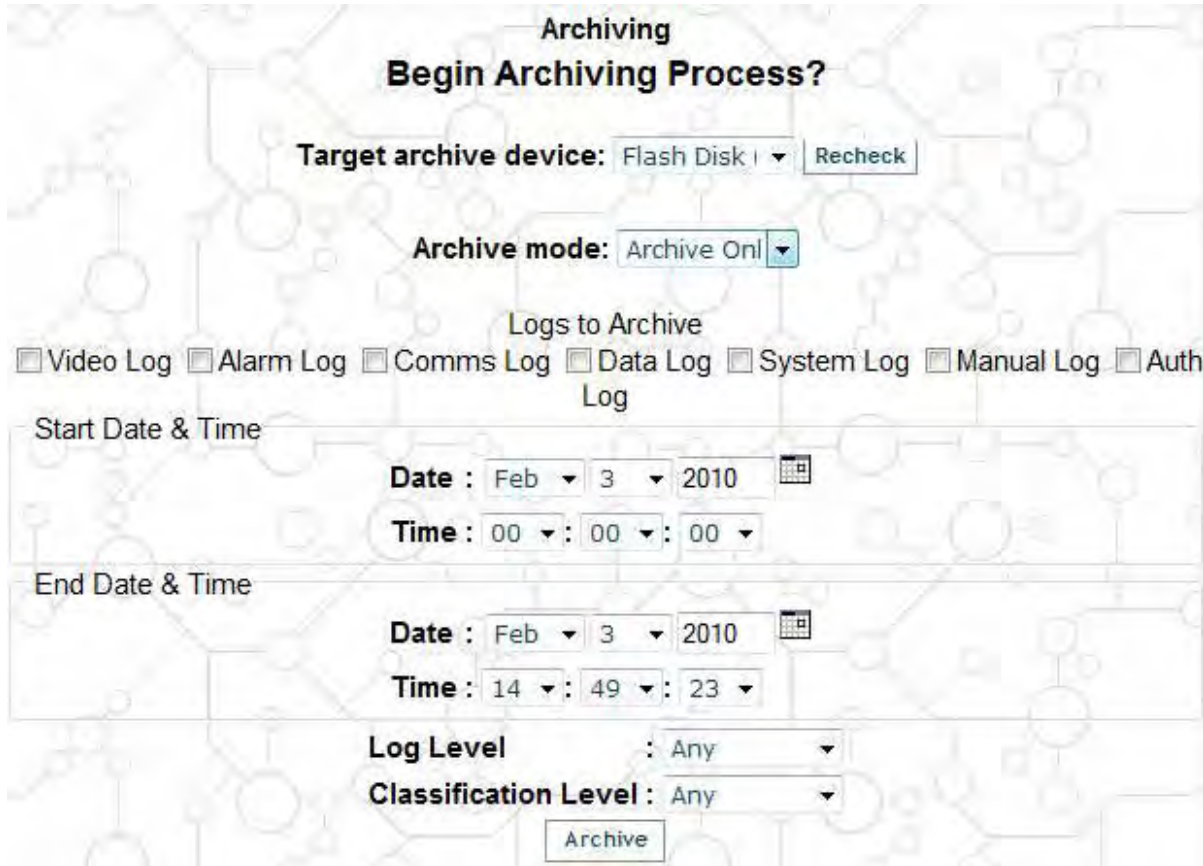


On the save changes page the user will be asked to confirm that they wish to save any changes that had been made. To confirm the user will need to click on the yes button.



Archiving

The purpose of archiving is to save logs and video files to a USB connected external data drive.



Connect the data drive directly to the USB port of the GPAC server, ensuring that there is sufficient free space on the data drive for the data you wish to archive and that the first partition is formatted as a FAT filesystem.

Select [Admin / Archiving](#) from the drop down menu. Select the newly attached storage media from the Target archive device list. Decide on the Archive mode, which could be Archive Only, Archive and Delete or Delete Only. Select the logs you wish to archive, and any data/time, start/end ranges, and Log and Classification Level filters. To start the archive process, press the *Archive* button. The Archiving process may take many minutes dependent on the amount and type of data being archived.