

Training Outline

1. AVR Features

- a. General GUI design
 - i. Multiple configurations for viewing camera displays
 - ii. Bottom and right panel for displaying control/status information
 - 1. Control button – PTZ controls available
 - 2. Status button – Sensor/Camera status available
 - 3. Search button – Date/time search capability available
 - iii. Power button for log in/shutdown
 - iv. Tabbed interface in Setup mode for easy organization of configurable items.
 - v. Intuitive GUI design, easy to use
 - vi. Colors used to indicate status of various functions, i.e. White camera/not recording, Yellow camera/on recording, etc.
 - vii. Right mouse button available for specific configuration controls
 - viii. Virtual keyboard available
- b. Setup – System tab
 - i. System Power Management controls for automatic shutdown sequences
 - ii. Auto-switching interval setting to configure which camera output is displayed on an external monitor
 - iii. E-map control for displaying a physical map of camera and sensor positions in the facility. TV- Out controls for controlling what camera images are displayed on external monitors
 - iv. On-screen Display to control font settings
 - v. Optional - Text Inserter functions for controlling display of POS data
 - vi. Hard disk Usage – controls for how disk space is used, recycle is default
 - vii. Optional – I-Phone (requires static IP) configuration for 2 way communication over the Internet.
 - viii. Maintenance Log – log file updated with login information, sensor trigger information and other system status information
 - ix. DVR Information – initially configured at setup time with server name and administrator
 - x. System Time Setup – set up for system date and time, not required to go to windows time configuration
- c. Setup – Device tab
 - i. Tab is divided into 5 sub categories – camera, output, input, audio, alert
 - ii. Camera – configuration for individual camera name, resolution, event recording rate and normal recording rate. Expand camera + symbol to see submenu
 - 1. Camera – setup camera name, record quality and pre/post recording time
 - 2. Motion Detection Zone – set camera recording to be triggered by motion detection, object detection or configure people count (object and people count can be reset with right mouse click on camera screen)
 - a. Mosaic – setup to veil or block specific areas of the camera view

3. Retain data – configuration for how long data will be retained before being overwritten
4. PTZ controls – configuration for camera if camera is a PTZ camera
- iii. Output – configuration for enabling, naming and controlling output devices
- iv. Input - configuration for enabling, naming and controlling input switches
- v. Audio - configuration for enabling, naming and controlling audio devices attached to cameras
- vi. Alert - configuration for enabling, naming and selecting type and length of alert
- d. Setup – Event tab
 - i. Tab is divided into 3 sub categories – Input, Motion Detection, No Video Signal
 - ii. Allows user to configure specific actions to occur based upon triggering events
 - iii. Items will not appear in Link to Recording/Output/Preset/Alert list until enabled under Device tab
- e. Setup – Schedule tab
 - i. Tab is divided into 3 sub categories – camera, input, output based on selection in pull down menu
 1. Camera – select recording type (S, R, M, H) and schedule (date/time) for each camera
 2. Input - select whether input devices are enabled or disabled during specified date/time
 3. Output - select whether output devices are enabled or disabled during specified date/time
- f. Setup – Network tab
 - i. Configure network settings to permit client access over the internet
 1. DVR Server – configure network type and port information, limit number of users and set transmission bandwidth
 2. Web Server – configure port and whether web login is required
 3. Central Station – enable and configure central station reporting. Enter static IP of central station (DVR Manager) server and configure events to be reported to central station server
 4. E-mail – enable and configure outgoing email notification. Configure SMTP information and content of outgoing notification of events (use event name as subject of email)
 5. Dial Alarm – enable and configure an outgoing dial alarm based on selected reported event. Modem must be installed in system
- g. Setup – User tab
 - i. Add, delete or modify settings for individual login accounts
 1. Control user name and password
 2. Control types of access individuals users have to the system
 3. Control priority for each user over remote access
 4. Control which camera(s) user has access to over the network
- h. Search Button
 - i. Playback buttons (play, stop, play x 2, etc.)
 - ii. Search by date/time/event/object/text/people count (click person icon)
 - iii. Colored time bars for types of data recorded (blue=recorded by sensor motion detection, purple= 24 hour recording, etc.)
 - iv. Save data in AVI, BMP (watermarked), or JPG formats to local disks

- v. Backup data to CDROM or other devices using file cabinet icon
 - 1. Save multi-channels as DFS format (specify start/stop time, requires AVR Playback software to be loaded on viewing client system)
 - 2. Save single channel as EXE format (specify start/stop time, camera, includes standalone player)
 - 3. Stand alone playback on any PC
 - 4. Can be password protected
- i. Client monitoring capability
 - i. Client monitoring software installed from CDROM or remote Browser
 - ii. Client user account can be configured with restricted function access
 - iii. Use of Internet Explorer
 - iv. Use of AVR Remote Client
 - v. ***Hands on time installing/using remote client***

2. External Devices

- a. PTZ Cameras
- b. POS Systems

3. Troubleshooting Guidelines

- a. Basic Troubleshooting
 - i. Windows
 - ii. AVR application
- b. Causes of potential problems
 - i. Environmental issues
 - ii. Non-working fans