<u>INTELLICAM SYSTEMS</u>

GEN IV Series Embedded Net DVR

G4-RTA Series H.264

Quick Reference User Guide

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HDD Installation & Format
  ➢ This unit can hold up to 8 HDD, 2 per IDE cable. Before installing a new HDD please ensure to properly set master and slave.
  ➢ An external USB port allows for use of external storage devices.
  ➢ IDE cables are located in the accessory box and have 3 connectors:
      1. Blue Connector-this is the mainboard connector
      2. Black Middle Connector-this is a device connector; a device connected here should be configured to **Slave**.
      3. Black End Connector-this is a device connector; a device connected here should be configured to **Master**.
      NOTE Intellicam Default Installation will have CD-R on IDE 1 configured to master, and a 250GB HDD on IDE 1 configured to Slave.
  ➢ After installing a new HDD the new drive will have to be formatted. Follow these steps to format a new HDD:
      ▪ Press menu
      ▪ Press → to select the password field
      ▪ Enter "**12345**" then press enter
      ▪ Field will move to **CONFIRM** then press Enter
      ▪ Use → to select the **UTILITIES** then press Enter
      ▪ Use → to select **HARD DISK** then press Enter
      ▪ Use ↑ to select the newly installed HDD in the **Select HD:** field
      ▪ Use → to select **FORMAT** and press enter
      ▪ Repeat these steps for any additional HDDs installed
      NOTE Press **PREV** at any time to return to the preview screen.

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Changing User Name & Password
- ➢ The unit will arrive with a default administrator titled "**admin**" and a default password of "**12345**". "**admin**" can not be modified; you can however modify the password and add additional users with individual passwords.
- ➢ Please follow these steps to add and modify additional users and passwords:
  - ▪ Enter the setup menu
  - ▪ Press → to select **USER** and press enter
  - ▪ Press → to select the **ADD** or the **PASSWORD** fields

  NOTE Press the "**A**" key to select Uppercase, Lowercase, and Symbol input characters. Use the "**EDIT"** key to backspace. Use alpha/numeric buttons to enter selected input character.
  - ▪ If adding a new user, edit the name, then enter a new password or modify old password. Then verify the entered password.

  NOTE Additional user default rights include: local playback, remote playback, and view log.
  - ▪ Press → to select **Confirm** and press enter

Preview Screen
- ➢ The preview screen will display date and time, input name and a status bar for each channel associated with the unit.
- ➢ Press "**A**" key to toggle the status bar on or off.
- ➢ Alpha/Numeric keys will select individual inputs.

  NOTE If DVR has more than 8 channels, use a leading zero to select 1-9 and a leading 1 to select 10-16.
- ➢ Press "**EDIT**" to manually cycle through inputs.
- ➢ Press "**PREV**" to change into a multi-screen display.
- ➢ The status bar will always display REC and ALARM status, the color code is as follows:

Record Status:

Icon	Icon Color	Status Description
White		No video signal
Yellow		Video input
Pink		Manual recording
Green		Real time recording
Blue		Motion detect recording

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Alarm Status:

Icon	Icon Color	Status Description
	White	No video signal
	Yellow	View Tampering input
	Pink	Motion & External alarm
	Green	No alarm
	Blue	Motion alarm
	Red	External alarm

Set Time & Date
  ➤ Set time and date as follows:
  ▪ Enter setup menu
  ▪ Press → to select **DISPLAY** and press enter
  ▪ Press → to select fields in **DATE:**
  ▪ Press ↑ to modify an individual field
  ▪ Press → to select fields in **TIME:**
  ▪ Press ↑ to modify an individual field
  ▪ Press → to select **Confirm** and press enter

Changing Camera Input Name
  ➤ You can change the name of each camera input by following these steps:
  ▪ Enter the setup menu
  ▪ Press → to select "**IMAGE**" and press enter
  ▪ Press ↑ to select the camera input to change in the **Select Camera:** field
  ▪ Press → to select **Name:** field
  ▪ Use alpha/numeric keys to enter characters
  NOTE Image adjustments can also be made from this page. All properties with the exception of camera name may be copied to other cameras.
  ▪ Press → to select **Confirm** and press enter

Manual Record
  ➤ There are two ways to enter the manual record interface mode:
  1. Press "**REC**" and enter user password
  2. Enter the setup menu and press "**REC**"
  ➤ The manual record interface displays three items:
  1. Channel-lists the channels available
  2. Status:

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Icon	Icon Color	Status Description
X	Idle	
	Green	Recording
	Red	Network transmission
	Orange	Recording/Network transmission

3. Start All/Stop All-Start and stop recording, use enter to modify field
➢ This page also includes **Start All** and **Stop All** options. Use → to select and press enter.
➢ Press "**ESC**" at any time to exit the record interface.

Record Setup
➢ In recording setup you can select what to do if HDD is full, set a recording schedule, and select the frame rate in addition to other advanced settings.
➢ To Enter Recording Setup
▪ Enter setup menu
▪ Press → to select "**RECORDING**" and press enter

➢ **If HD Full: Option**
▪ Press → to select **If HD Full:** field
▪ Press ↑ to select **Overwrite** (default) or **Stop Recording**

➢ **Set Record Schedule**
▪ Press → to select **Select Camera:** field
▪ Press ↑ to camera number
▪ Press → to select **Schedule** and press enter
NOTE After creating/modifying a recording schedule you must reboot the system. You can reboot the system from the "UTILITIES" menu.

➢ In the record schedule you can select the Day, All Day, Rec. Type and chose from up to four recording periods (Max. is four).
NOTE If you select **All Day** you can only select the **Rec. Type** and the record periods are unavailable. When you do not select **All Day,** all periods are available and you may select a **Rec. Type** for each period.
▪ Press → to select fields within each period.
▪ Set **Start Time**, **End Time**, and **Rec. Type**
▪ All record properties may be copied to other days.
▪ Press → to **Confirm** and press enter

➢ **Change The Frame Rate**
▪ Press → to select **Frame Rate:** field

- Press ↑ to select desired frame rate
NOTE Frame rates are as follows: Full-NTSC is 30 FPS (default),20,16,12,10,8,6,4,2,1,1/2,1/4,1/8,1/16

Playback Mode
  ➢ There are two ways to enter the playback interface mode:
      1. Press "**PLAY**" and enter user password
      2. Enter the setup menu and press "**PLAY**"
  ➢ Once in the playback interface follow this step to begin playback.
    - Press → to select **Play** and press enter
  ➢ It is possible to playback two channels simultaneously to do so follow these steps:
    - Press → to select **Chan:** field
    - Press ↑ to select which channel will be the primary playback.
    - Press → to select **Second:** field
    - Press ↑ to select which channel will be the secondary playback or **none** for no secondary playback.
    - Playback may also be selected by **Rec. Type**.
    - Press → to select **Rec. Type:** field
    - Press ↑ to select recording type playback
    - Record types are: All (default), All Time, Motion Detect, Alarm, and Manual.
  ➢ Play back can be selected by time index or searched within a given time index
    - Press → to select **Time Index** field
    - Press ↑ to change times and enter
    - Press → to select **Play** and press enter
    - Press → to select **Search** field and press enter
    - This will display a list of segments found within the selected time index.
    - Press → to select segments within the segment box
    - You may also cycle through segment pages by page number.
    NOTE When any field in the time index is selected, pushing enter will display the list of segment files available for that specific time index.
  ➢ During playback there is an information bar which is displayed at the bottom of the screen, it displays the following information: Volume, Play Progress, Play Speed, Played Time, and File Total Time. The following list shows how to operate during playback:

☺ Display/Hide information bar: 【MENU】

☺ Open/Close sound: 【PLAY】

☺ Adjust play progress: 【←】 (Backward), 【→】 (Forward). The unit is "%".

☺ Adjust play speed: Normal speed is "1x". Use 【↑】 to increase play speed (2X, 4X, 8X and MAX). Use 【↓】 to decrease play speed (1/2X, 1/4X, 1/8X and Frame by Frame)

☺ Pause/Continue: Press 【ENTER】 to pause/continue playback. If played frame by frame, Press 【ENTER】 to paly one frame.

☺ Copy segment: 【EDIT】

☺ Exit: 【ESC】

☺ Playback switch: When in 2-ch playback, press 【PREV】 to switch between main channel and second channel.
  ➢ Press "**ESC**" at any time to exit the playback interface.

Backing Up Files
NOTE Connect external backup devices before attempting to backup any recorded files.
  ➢ Backing up files will be done through the playback interface mode.
  ➢ Backup devices are as follows: USB Disk-Flash Drive (default), USB HDD, USB CD-R/W, or IDE CD-RW
  ➢ Enter the playback interface mode and follow these steps to backup information.
     ▪ Press → to select **Save Device:** field
     ▪ Press ↑ to select device type
     ▪ To back up all information from the current day: Press → to select **Backup Today** and press enter
     ▪ Or, Select segment files from the playlist and press "**Edit**" to select those files to be copied.
     ▪ Press → to select **Save Device:** field
     ▪ Press ↑ to select save device type
     ▪ Press → to select **Copy** and press enter
  ➢ File segments may also be copied during play mode.
     ▪ During video playback: press the "**EDIT**" key to start copying a segment, press ""**EDIT**" again to stop copying.
     ▪ After all segments are selected, press the "**ESC**" key to exit playback and you will be prompted to backup selected segment. Press enter to confirm backup of selected video segments.
     NOTE A maximum of 30 video segments may be selected during playback.

Setting PTZ Camera Parameters
  ➢ In order to control a PTZ, camera parameters must be set in the menu.
  ➢ To change parameters for a PTZ camera follow these steps:
     ▪ Enter the setup menu
     ▪ Press → to select **PTZ** and press enter
     ▪ Press → to select **Select Camera:** field
     ▪ Press ↑ to select which camera you trying to control
     ▪ Press → to select **Baud Rate:** field and press enter
     ▪ Press ↑ to change Baud Rate-**2400** for Pelco-D
     ▪ Press → to select **Protocol:** field and press enter
     ▪ Press ↑ to select the desired protocol-**Pelco-D**
     ▪ Press → to select **PTZ Addr:** field and press enter
     ▪ Select 1 for standard Pelco-D camera address.
     NOTE Properties may be copied to other cameras with the exception of the PTZ Address.
  ➢ PTZ presets, cruise modes and auto sequences may also be set from this page.

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PTZ Camera Control
- ➢ After parameters have been set for all cameras to be controlled, there are two ways to enter the PTZ interface mode:
  1. Enter the setup menu and press "**PTZ**"
  2. Press "**PTZ**" and enter user password
  - ▪ Once the PTZ interface mode has been entered, an information bar will appear at the bottom of the screen say PTZ Control
  - ▪ Use the alpha/numeric keys to select which camera you wish to control
  NOTE If using more than 9 cameras, use a leading zero to select 1-9 and a leading 1 to select 10-16.
- ➢ The following keys are used during PTZ control and are indicated by blue text:
  PTZ control keys description
  Direction control keys: 【↑】, 【↓】, 【←】, 【→】

  ZOOM control keys: 【ZOOM+】, 【ZOOM-】

  FOCUS control keys: 【FOCUS+】, 【FOCUS-】

  IRIS control keys: 【IRIS+】, 【IRIS-】

  Adjust preset keys: 【REC/SHOT】

  Auto control key: 【PLAY/AUTO】

  Wiper control key: 【WIPER/MENU】

  Light control key: 【LIGHT/F1】

  Auxiliary device control key: 【AUX/F2】

Setting Network Parameters
- ➢ In order to enable DVR remote access you must ensure the network parameters are set correctly.
- ➢ Please consult *Intellicam Systems* Network Troubleshooting Guide for direct PC to DVR troubleshooting using a crossover cable.
- ➢ The following table includes the default **NETWORK** settings:
  IP Address: 192.168.1.50
  Gateway: 192.168.1.1
  Mask: 255.255.255.0
  Port: 8000
  Http:// Port: 80
- ➢ To make changes to the net
  - ▪ Enter the setup menu and press → to select **NETWORK**
  - ▪ Press → to select **NIC Type:** field and press enter
  - ▪ Press ↑ to select NIC type- 10m/100m Auto(default)
  - ▪ Press → to select **IP:** field and press enter
  - ▪ Use the alpha/numeric keys to select the IP Address
  NOTE Use the "**EDIT**" key to backspace and make corrections
  - ▪ Press → to select **Port:** field and press enter
  - ▪ Use the alpha/numeric keys to select the Network Access Port
  - ▪ Press → to select **Mask:** field and press enter
  - ▪ Use the alpha/numeric keys to select the Subnet Mask

- Press → to select **Gateway:** field and press enter
- Use the alpha/numeric keys to select the Gateway

Changing Preview Screen Parameters
➢ In the preview menu you can set the following options: Preview Mode, Screen Switch Time, Enable or Disable Audio Preview, and Preview Layout.

Enable the Remote Control
NOTE In the **DISPLAY** menu the device ID is "**88**" (default); if using multiple DVRs please change the device ID for each unit otherwise one remote will work for all units.
➢ To change the device ID follow these steps:
- Enter the setup menu and press → to select the **DISPLAY** menu and press enter
- Press → to select **Device ID:** field and press enter
- Use the alpha/numeric keys to select the device ID
➢ To enable the remote control, follow these steps using the remote control:
- On the remote press the "**DEV**" key and enter the **Device ID** from the previous step and press enter
- The "**STATUS**" light on the unit will turn green. The remote control is now enabled.
- Use the remote normally
- To Disable the remote control press the "**DEV**" key again; the green "**STATUS**" light will extinguish. The remote control is now disabled.

Powering Down the Unit
WARNING Never use the switch on the rear panel of the unit or remove power plug to power down the unit. Doing so could cause damage to the internal HDD.
➢ There are three safe ways to power down the unit:
1. Press and hold the "**POWER**" key on the front of the unit for 5 seconds, enter the password, and press enter to confirm.
2. Enter the setup menu and press → to select **UTILITIES** and press enter
    - Press → to select **POWER OFF** and press enter
    - Press enter again to confirm.
3. Using the remote control, press and hold the "**POWER**" key for 5 seconds, enter the password, and press enter to confirm.

Terminating the RJ45 to DB-9 Cable for RS-485 Use
➢ In order to use the RJ45 cable for RS-485 control you must remove the molded DB-9 head by cutting the cable. Strip back the outer conductor a few inches and cut all colors but **Black & Red**.
➢ Use the following to pin out to standard RS-485 data lines:
- TXD+ Pin 1 to Black
- TXD- Pin 2 to Red

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Setting Cameras to Motion Detect

NOTE You must choose a **Motion Det. Level** to activate motion detection on a desired channel.

NOTE Motion Detection Sensitivity can be set in the range of 0-5 (0 being the lowest and 5 being the highest).

NOTE Defining a motion detection area is separate from defining a privacy mask area.

➢ To enable **Motion Detection** on desired channels, please follow these steps:
- Enter the setup menu and press → to select the **IMAGE** menu and press enter.
- Press → to select **Select Camera:** field
- Press ↑ to select desired camera
- Press → to select **Motion Det. Level:** field
- Press ↑ to select the desired Motion Detection Level (see above Note)
- Press → to select **Area** and press enter
- You will now see a Blue grid, Follow the onscreen instructions to navigate and make selections

➢ **RED Indicates Motion Detection Area-BLUE Indicates Non-Motion Detection Area.**

➢ After defining the motion detection area, Press **Enter** to save the settings and return to the menu.

NOTE You must apply these settings to all desired cameras, or use the **Copy to Camera:** option.

➢ Press **Confirm** to save settings and exit the **IMAGE** menu, motion detection will now be enabled.

➢ After completing the steps to set up Motion Detection, you can now enable it as a **Rec. Type** in a **Recording Schedule**. Please remember when making changes to a **Recording Schedule** that a Reboot is necessary.

NOTE Motion Detection will be indicated on the Preview screen by a BLUE ALARM Status Indicator and only when motion is detected. If Motion Det. has been selected as the Rec. Type it will again be indicated on the Preview screen by a steady BLUE RECORD Status Indicator.