ActaView Software

Operation Manual
(Preliminary)

FCC Notices

The four components of the BullzI Asset Tracking System, as listed below, have been found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. The system may not cause harmful interference.
2. The system must accept any interference received, including interference that may cause undesired operation.

Collector, Model BICLA

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded Cables: Connections between the Collector and peripherals must be made using shielded cables in order to maintain compliance with FCC radio frequency emission limits.

Modifications: Any modifications made to this device that are not approved by PDM Corporation may void the authority granted to the user by the FCC to operate this equipment.

Serial Switch, Model BISSA

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded Cables: Connections between the Serial Switch and peripherals must be made using shielded cables in order to maintain compliance with FCC radio frequency emission limits. Networking connections can be made using unshielded twisted-pair (UTP) cables.

Modifications: Any modifications made to this device that are not approved by PDM Corporation may void the authority granted to the user by the FCC to operate this equipment.

Receiver Processor, Model BIRPA13

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded Cables: Connections between the Receiver Processor and peripherals must be made using shielded cables in order to maintain compliance with FCC radio frequency emission limits.

Modifications: Any modifications made to this device that are not approved by PDM Corporation may void the authority granted to the user by the FCC to operate this equipment.

BullzI RFID Tag, Models BITGA-12, BITGA-25, BITGA-50

FCC ID: QFFLLIBCRAMDERF

Note: BullzI tags have been certified in accordance with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. The system may not cause harmful interference.
2. The system must accept any interference received, including interference that may cause undesired operation.

Modifications: Any modifications made to this device that are not approved by PDM Corporation may void the authority granted to the user by the FCC to operate this equipment.

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ActaView Software

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Introduction

BullzI ActaView is a Windows based software package designed to be extremely user friendly.

This manual is divided into two parts, organized as follows:

- Part 1 – Administrative Module
- Part 2 – Asset Locator Module

ADMINISTRATIVE MODULE

Starting BullzI Administrator:

1. Click the start button on the Windows Task bar and then choose Programs – BullzI – Administrator.

   After a short delay, you'll see the opening screen shown in Figure 1.1

   NOTE: If a shortcut has been added to your desktop you can skip step 1 and double click the BullzI Administrator icon.

FIGURE 1.1

The Administrator Opening screen. Here you enter your User ID and password to gain access to the Administrator program.

2. Enter your User ID and password. Click Execute. The program screen shown in Figure 1.2 will appear.

FIGURE 1.2

The System Administrator screen. Select the task you want to perform from the Administrator drop down menu.

3. From the Administrator menu, do any of the following:

   - **Add an asset record to the database**, choose Add Asset
   - **Delete an asset record from the database**, choose Delete Asset
   - **Modify an asset record**, choose Modify Asset

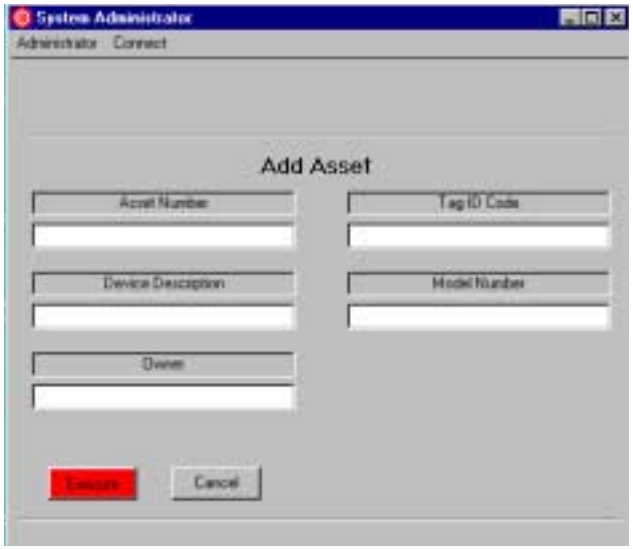
Adding a Tagged Asset

1. Choose Add Asset from the drop down menu. (Refer to Figure 1.2).

The Add Asset dialogue will be displayed as shown in Figure 1.3

FIGURE 1.3

The Add Asset dialogue. All information about the Asset is entered here. If your system is set up to do so, this information can be scanned into the database.



2. At the prompt, type in the Asset Number. Tab over to the Tag ID Code and fill in the data. Repeat this process for the remaining blank fields. Click execute.

   The asset record has now been added to the database.

Deleting a Tagged Asset

1. Choose Delete Asset from the drop down menu. (Refer to Figure 1.2).

   The Delete Asset dialogue will be displayed as shown in Figure 1.4.

FIGURE 1.4

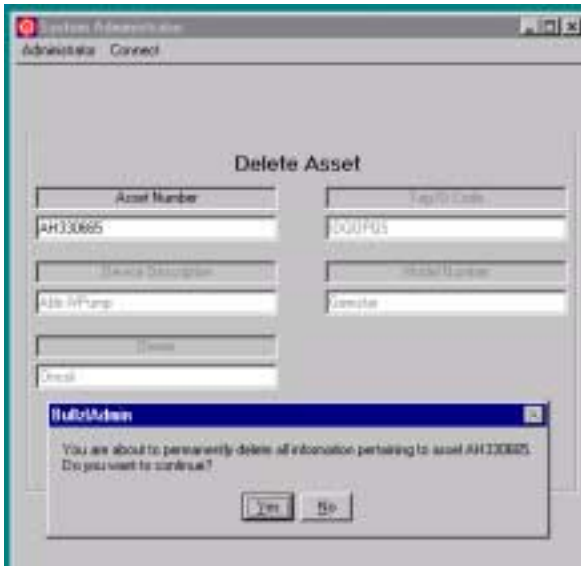
The Delete Asset dialogue. Type in the asset number and click Execute. The remaining fields will be filled in from the database.

2. At the prompt, type in the Asset Number. Click Execute. The remaining fields will be filled in from the database.

A message box (Figure1.5) will ask you to confirm your action.

FIGURE 1.5

The Confirm Delete message box. Click okay to permanently delete the Asset from the database.



3. After you have verified that this is the correct asset and are sure you want to delete it, click okay.

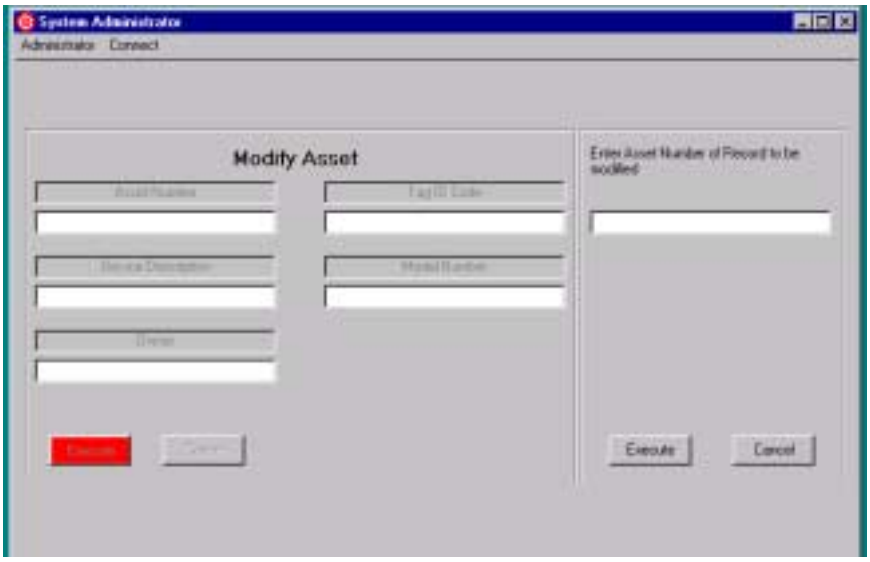
Modifying a Tagged Asset

1. Choose Modify Asset from the drop down menu. (Refer to Figure 1.2).

   The Modify Asset dialogue box will be displayed as shown in Figure 1.6

FIGURE 1.6

Modify Asset dialogue. Type the asset number in the "Enter Asset Number …" dialogue box and click Execute. The other fields will be filled in from the database.



2. Enter the asset number at the prompt and click the active Execute button.

   The record information fields will be filled in automatically.

3. Modify the information as required, click the Execute button. (refer to Figure 1.7).

FIGURE 1.7

The Modify Asset Dialogue.
Edit the information by highlighting the text in the appropriate box and typing in the new information.

This information has been modified in the database.

To modify another record, select Administrator.

LOCATION VIEWER MODULE

Starting BullzI Location Viewer:

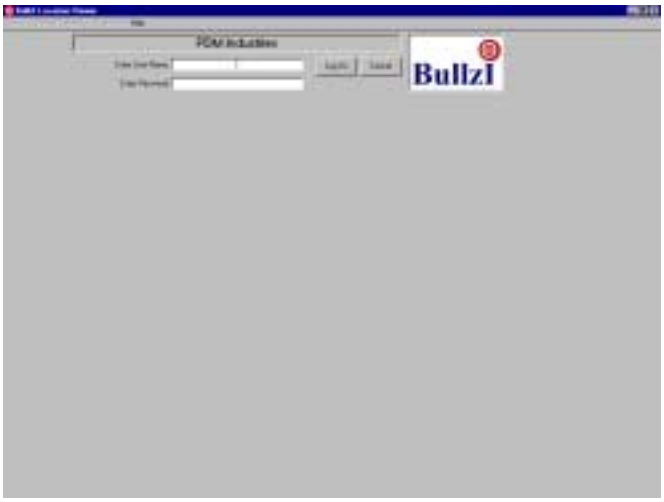
1. Click the Start button on the Windows Task bar and then choose Programs – BullzI – Location Viewer.

   After a short delay, you'll see the opening screen shown in Figure 2.1

NOTE: If a shortcut has been added to your desktop, you can skip Step 1 and double click the BullzI icon.

FIGURE 2.1

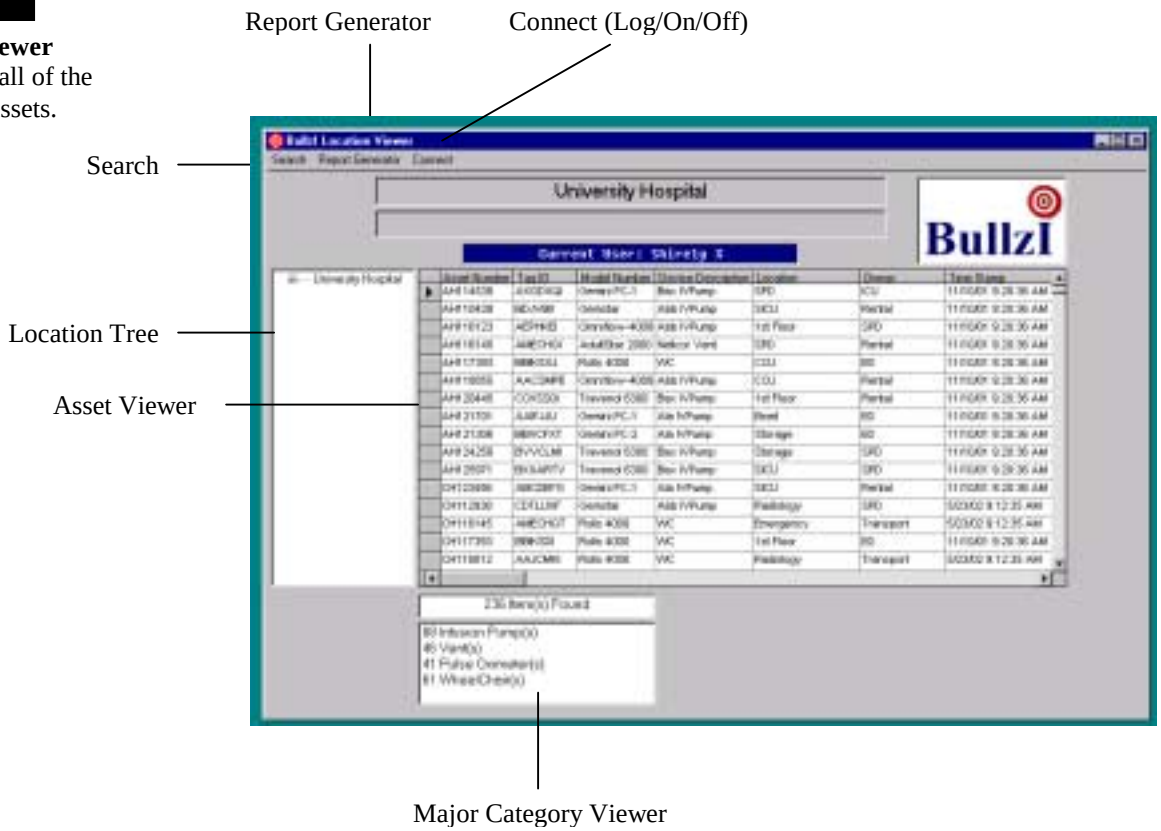
The BullzI Opening screen. Here you enter your User ID and password to gain access to the Location Viewer.



2. Enter your User ID and password. Click Log On. The Tagged Asset Database window will appear.

FIGURE 2.2

The Location Viewer screen. Displays all of the facilities tagged assets.



Location Viewer Screen Layout

Asset Viewer

The Asset Viewer displays information related to the tagged asset, including:

- **Asset Number** – The facilities ID number for each tagged asset sorted alpha-numerically.
- **Tag ID** – The identification number of the BullzI RF Tag.
- **Model Number** – The tagged asset's model number.
- **Device Description** – The facilities description of the tagged asset.
- **Location** – The current location of the tagged asset.
- **Owner** – The departmental owner of the tagged asset.
- **Time Stamp** – The date and time the asset was first seen at its current location.

Location Tree

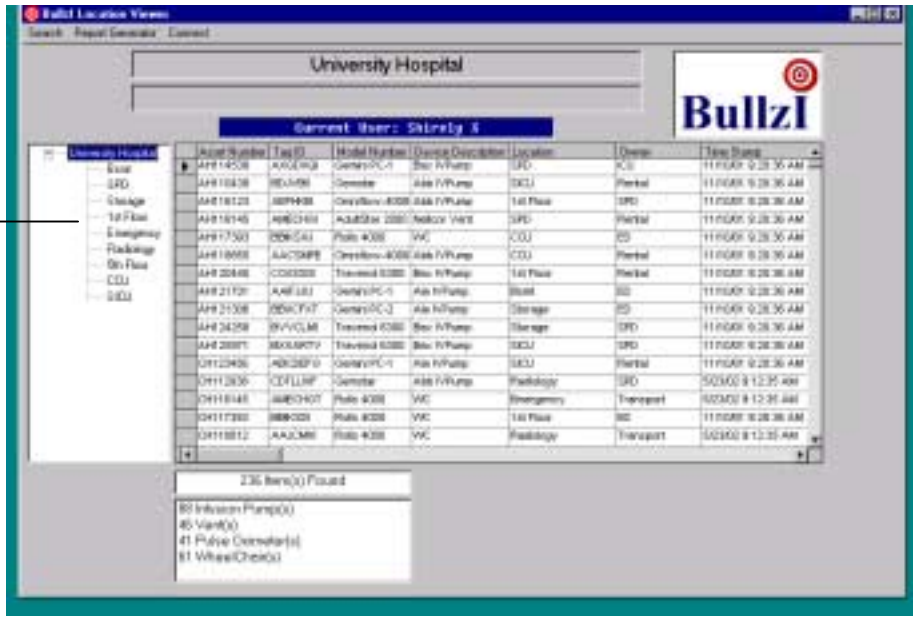
The Location Tree provides the ability to quickly view all tagged assets at the specified location.

NOTE: The layout of the Location Tree is determined by the deployment of the BullzI infrastructure and the resolution requirement of the customer.

1. To expand the tree, click on the plus (+) sign next to the top node of the tree (see Figure 2.2). Now all of the mapped locations are visible as shown in Figure 2.3.

FIGURE 2.3

The Location Tree expanded. Click on the (-) sign to contract the tree.

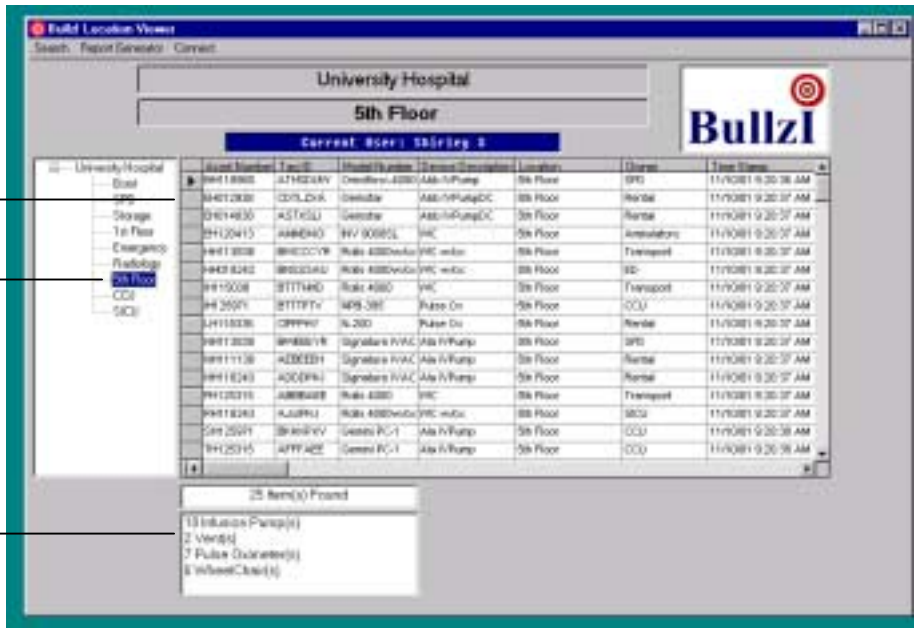


2. In the Location Tree, click on a location to get a listing of all tagged assets currently in that area.

   Figure 2.4 is the result of clicking on the 5th floor node in the Location Tree.

FIGURE 2.4

The Location Viewer screen. Only the tagged assets on 5th floor are displayed.



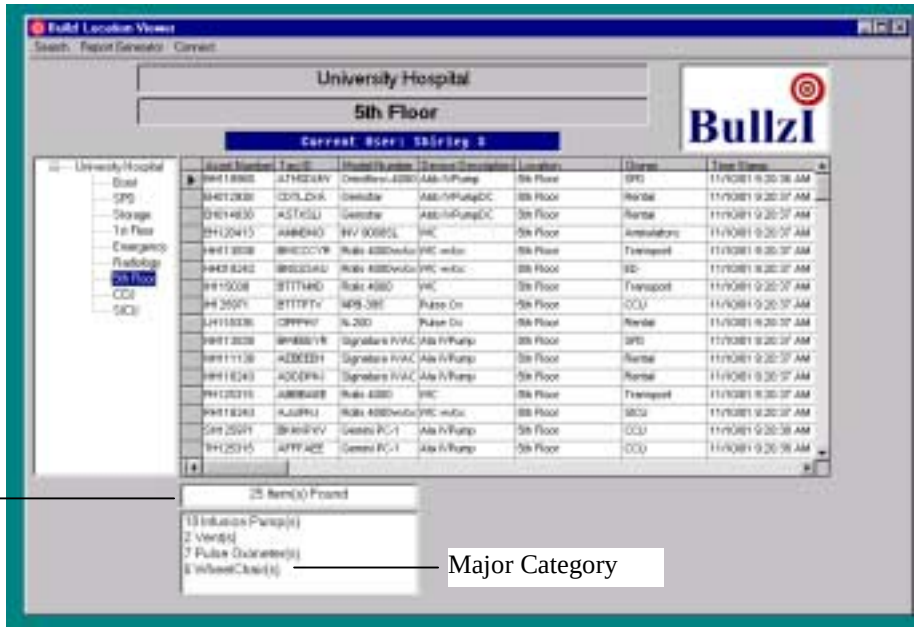
Major Category Viewer

The Major Category Viewer has two functions (Reference Figure 2.5):

- Display a total count of all tagged assets relative to the selected node in the Location Tree.
- List tagged assets by major category, enabling quick viewing of all assets within a category (i.e. Wheelchairs).

FIGURE 2.5

The Major Category Viewer. Only the tagged assets of 5th floor are displayed.



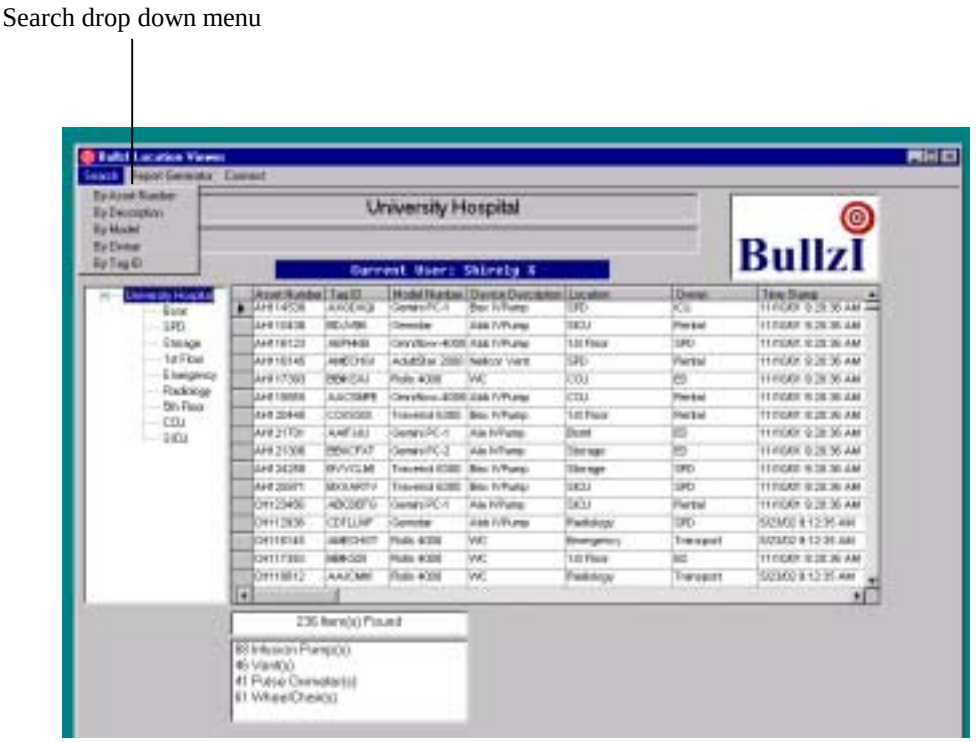
Search Functions

The Search Function drop down menu provides a means to quickly search for a specific tagged asset or group of tagged assets. Two very important points to remember when doing a search are:

- Asset number or Tag ID searches – These searches locate the asset wherever it is in the facility no matter what is displayed in the Location Tree.
- All other searches will only find tagged assets located at the node selected in the Location Tree.

FIGURE 2.6

The Search Function. Start by clicking Search and then selecting the type of search from the drop down menu.



All Search Functions begin by clicking Search and then selecting the type of search from the drop down menu.

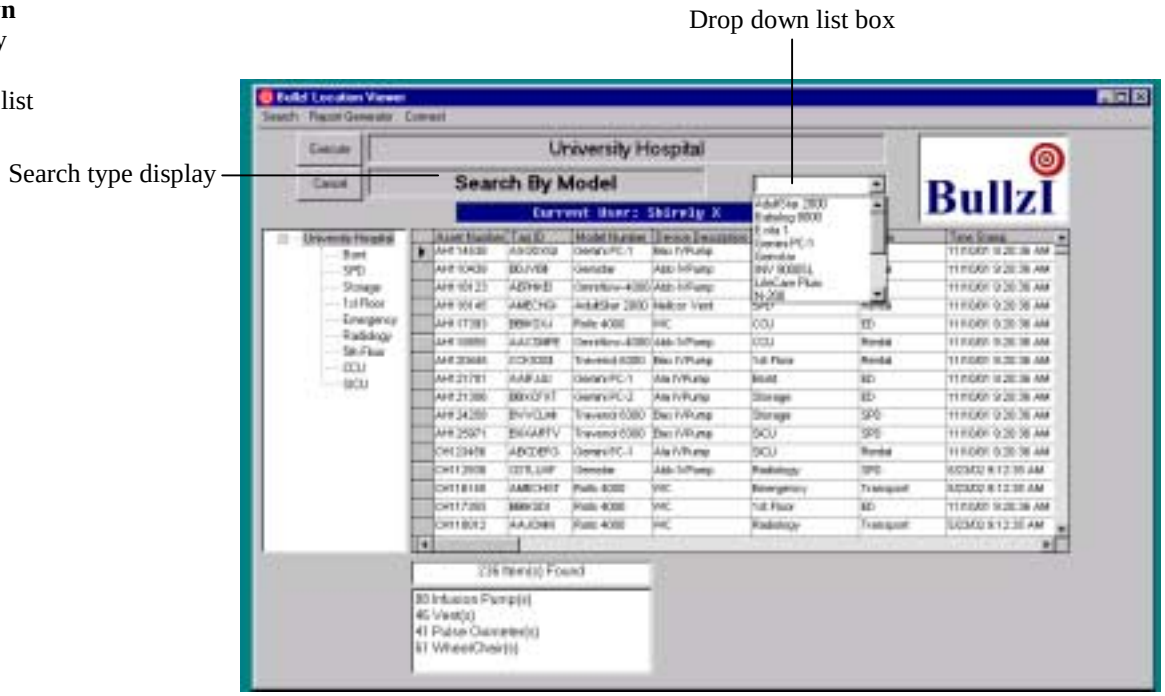
To Search by Description, Model or Owner

1. Select Description, Model, or Owner from the drop down menu.

A drop down list box will appear as shown in Figure 2.7. This list box lists all of the descriptions/models/owners in the database.

FIGURE 2.7

Model Drop Down List. Searching by model gives us a Model drop down list box from which to select.



2. Click on the asset Description, Model or Owner you are trying to locate.

3. Click Execute

The Asset Viewer will display all items matching the criteria you selected. Remember, the search is relative to the node selected in the Location Tree.

To Search by Asset Number or Tag ID

1. Click Search and then the type of search from the drop down menu.

   A dialog box will appear, as shown in Figure 2.8, allowing you to enter the Asset Number or Tag ID.

2. Type in the Asset Number or Tag ID. Click Execute.

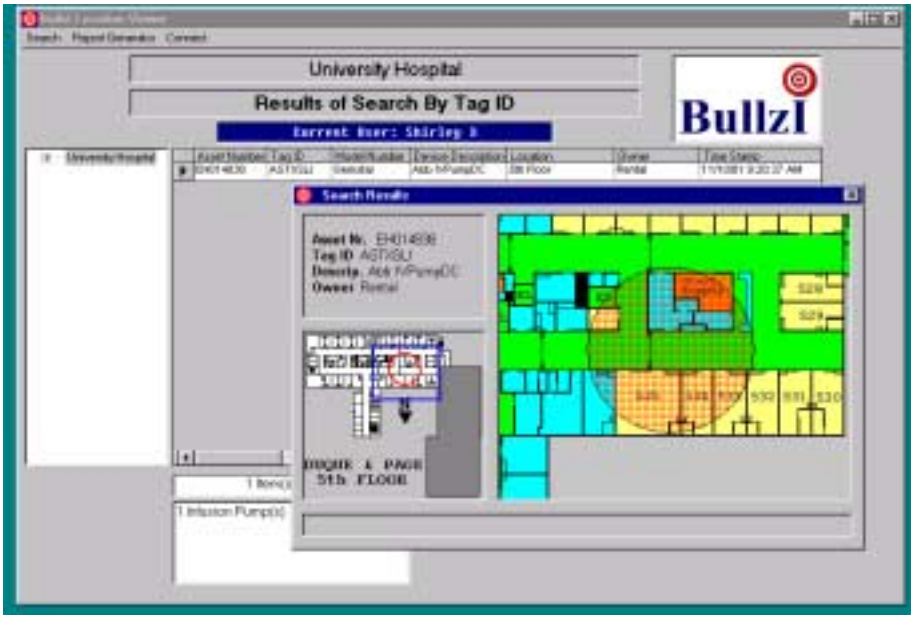
   The Asset Viewer will display the item that you have requested. Remember Tag ID's and Asset Numbers are unique so unlike other types of searches, there is only one possible match.

FIGURE 2.8

To search by Tag ID or Asset Number. Type in the search criteria. Click Execute.

FIGURE 2.9

Search Results. An Asset Number or Tag ID search will return one item. It will also display a 2D representation of the items current location.



Level Two Search

Searches can also be done within the Asset Viewer and Major Category Viewer windows. The items displayed will be context specific to the node currently selected in the Location Tree.

Asset Viewer Window

1. Select an item description under the Device Description column in the Asset Viewer Window. Double click.

   In this example we selected Ala IV Pump and get a complete listing of all 38 pumps with this Device Description as shown in Figure 2.10.

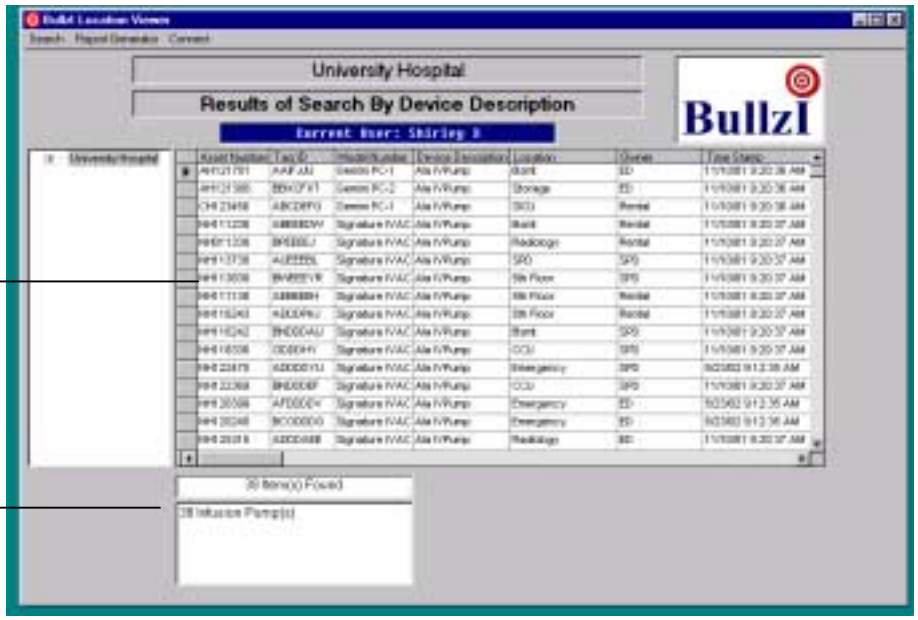
   - or -

2. Select and item description under the Model Number column in the Asset View window. Double click.

   - or -

3. Select an owner description under the Owner column in the Asset Viewer window. Double click.

FIGURE 2.10



Asset Window Viewer. Results of double clicking on Ala IV Pump.

Major Category Viewer Window

1. Select an item under the Major Category Viewer. Double Click. The items will be displayed in the Asset Viewer Window context specific to the node currently selected in the Location Tree.

   In this example we selected Pulse Oximeters and a complete listing of 41 pulse oximeters of all descriptions was displayed as shown in Figure 2.11.

FIGURE 2.11

Major Category Viewer Window. Results of double clicking on pulse oximeters.

2D Viewer

The 2D viewer displays the approximate location of a tagged asset. It provides a detailed view of the tagged asset's location and a complete floor view.

The 2D viewer can be displayed in one of two ways.

1. Select the Asset Number or Tag Number of the item to be located and then double click it.

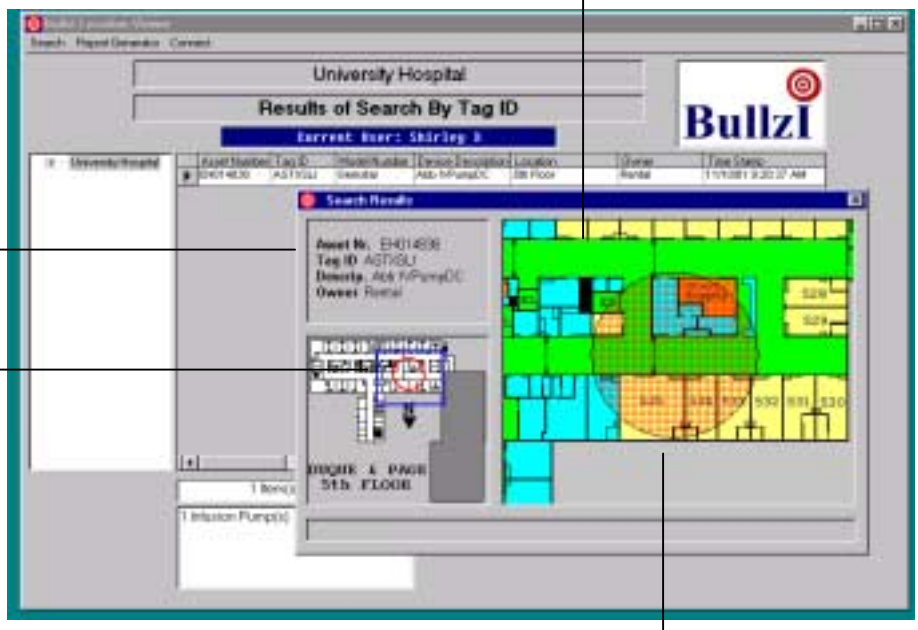
-or –

2. From the Search drop down menu select Asset Number or Tag Number. Type in the desired item. Click on Execute.

Either will display a screen similar to the one shown in Figure 2.12.

FIGURE 2.12

2D Viewer Display



2D Viewer Operation

To display the location –

1. Place the mouse at any location in the Detail View Window.

2. Press and hold the left mouse button.

   The location will be displayed below the Detail View Window.

To pan –

1. Place the mouse at any location in the Detail View Window.

2. Press and hold the left mouse button.

3. Drag the display until the area of interest comes into view.

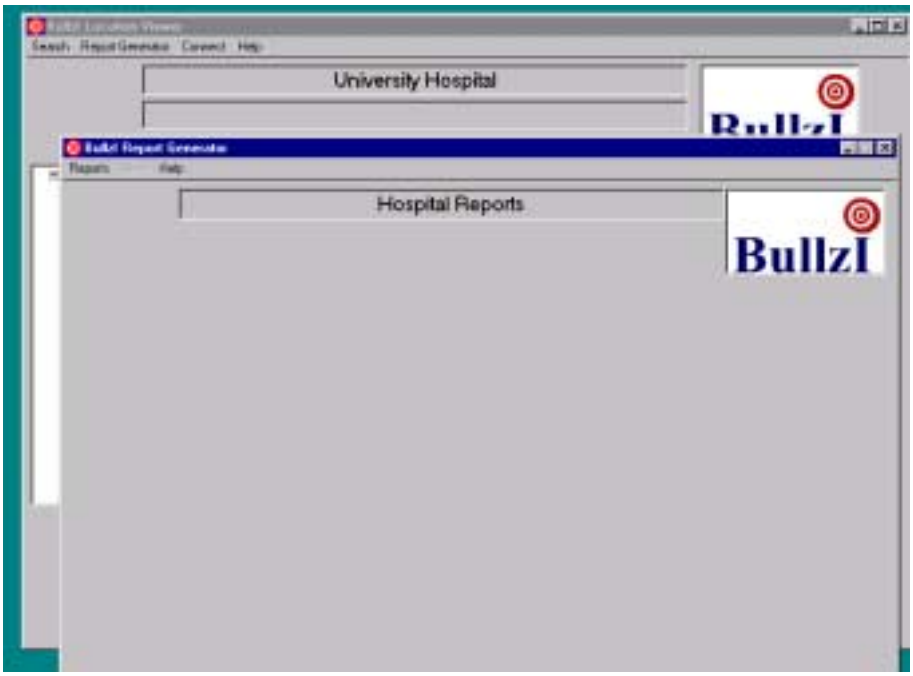
   Notice the View Finder Window moves as the mouse is moved and the area inside the viewfinder box is what is displayed in the Detail View Window.

Report Generator

Provides the ability to view and print reports.

FIGURE 2.12

Selecting Report Generator from the menu bar causes the Reports screen to be displayed.



APPENDIX

Bullzi™

RFID Tag BITGA-XX

Specification Sheet

Product Identification

FCC ID:	QFFLLIBCRAMDERF
Part Nr.	BITGA-12
Part Nr.	BITGA-25
Part Nr.	BITGA-50

Features

- More than 8 billion unique codes
- Long battery life
- Low cost
- Sealed plastic enclosure
- Cost effective tag exchange program

Physical Characteristics

Length:	2.49 in (63.25 mm)
Width:	1.44 in (36.58 mm)
Height:	0.50 in (12.70 mm)
Weight:	1.20 oz (34.0 g)
Material:	ABS, Polylac 717C
Color:	White
Seal:	Ultrasonic Weld

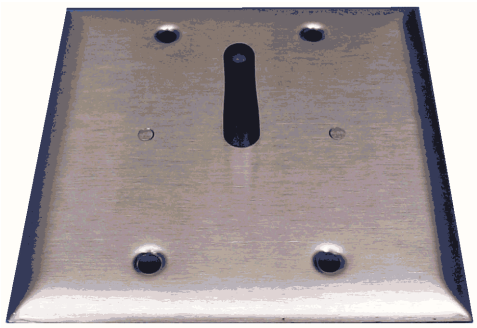
Technical Specifications

Battery Life, BITGA-25:	> six years
Frequency:	303.825 MHz
Operating Humidity:	< 99% RH
Storage Humidity:	< 99% RH
Operating Temperature:	0° C to 70° C
Storage Temperature:	-20° C to 85° C

BullzI™

Receiver Processor BIRPA13

Specification Sheet



NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

Physical Characteristics

Length:	4.6 in (11.7 cm)
Width:	4.6 in (11.7 cm)
Height:	2.4 in (6.1 cm)
Weight:	8.5 oz (28.3 g)
Material:	Stainless Steel
Color:	Colors available
Mounting:	Standard 2-gang electrical box

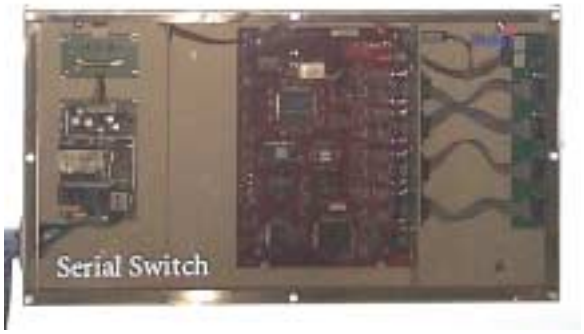
Technical Specifications

Frequency:	303.825 MHz
Antenna:	Spiral, 1.3 in (3.3 cm)
Power Requirement:	5V DC, 26 Ma.
Network Connection:	RS-485
Maximum Cable Length:	300 ft (91.4 m)
Operating Humidity:	< 95% (non-condensing)
Storage Humidity:	< 95% (non-condensing)
Operating Temperature:	0° C to 70° C
Storage Temperature:	-20° C to 85° C

BullzI™

Serial Switch BISSA

Specification Sheet



NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Physical Characteristics

Height:	10.0 in (25.4 cm)
Width:	17.2 in (43.7 cm)
Depth:	2.6 in (6.6 cm)
Weight:	10.0 lbs (4.5 kg)
Material:	Stainless steel
Color:	Ivory, matt finish
Mounting:	Wall, four # 10 keyholes

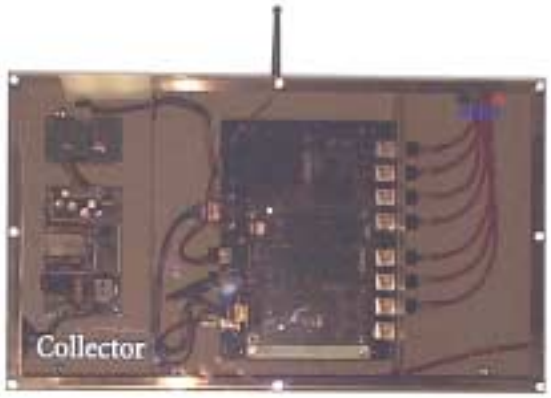
Technical Specifications

Ethernet Host Interface:	10Base-T (10 Mbps)
Number of Ports:	Four (4), RS-422-485, DB-9 F
Maximum Baud Rate:	230.4 kps
Power Requirement:	100-240 Vac, 0.1 A
Heat Output:	27.0 BTU / hour
Operating Humidity:	8% - 80% (non-condensing)
Storage Humidity:	20% - 80% (non-condensing)
Operating Temperature:	0° C to 40° C
Storage Temperature:	-20° C to 85° C

BullzI™

Collector BICLA

Specification Sheet



NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Physical Characteristics

Height:	10.0 in (25.4 cm)
Width:	17.2 in (43.7 cm)
Depth:	2.6 in (6.6 cm)
Weight:	10.0 lbs (4.5 kg)
Material:	Stainless steel
Color:	Ivory, matt finish
Mounting:	Wall, four # 10 keyholes

Technical Specifications

Receiver Processor Ports:	8 each RS-485
Standard I/O Ports:	1 each RS-485, 1 each RS-232
Optional I/O:	2.4 GHz SSFH, IEEE 802.3
Power Requirement:	90 – 264 Vac, 0.6A
Heat Output:	6.3 BTU / hour
Operating Humidity:	< 95% (non-condensing)
Storage Humidity:	< 95% (non-condensing)
Operating Temperature:	0° C to 60° C
Storage Temperature:	-20° C to 85° C

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