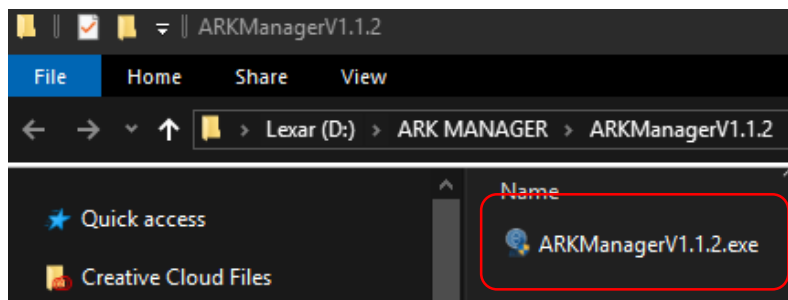


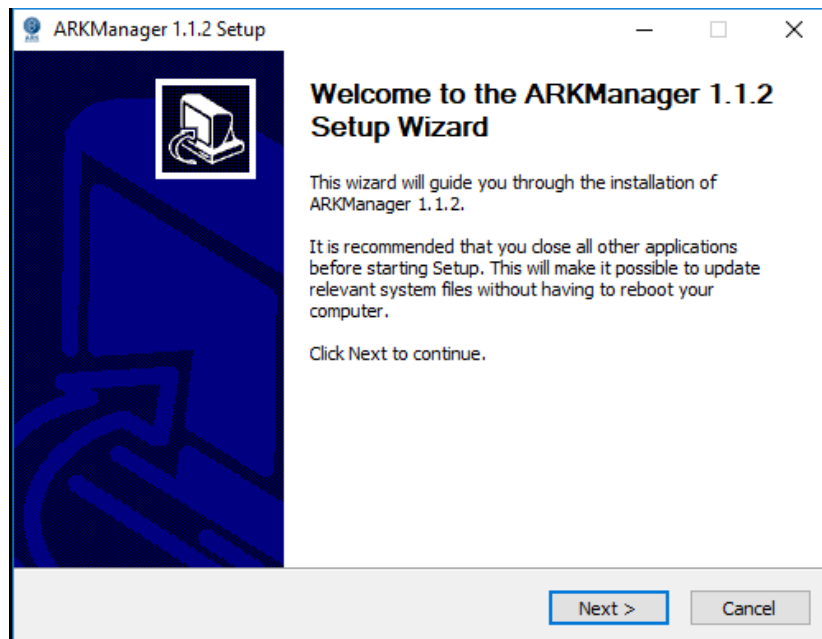
ARK MANAGER USER GUIDE V1.1.2

INSTALLATION

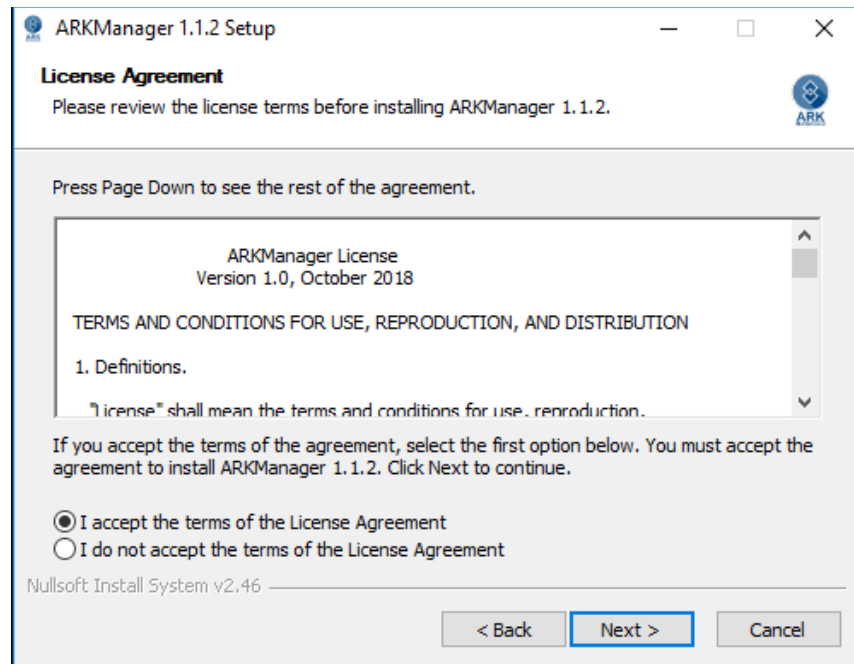
Locate the ARK MANAGER zip file you downloaded on your local PC hard drive and extract the file located in the zip file. Double click on the ARKManagerv1.1.2.exe file to begin installation.



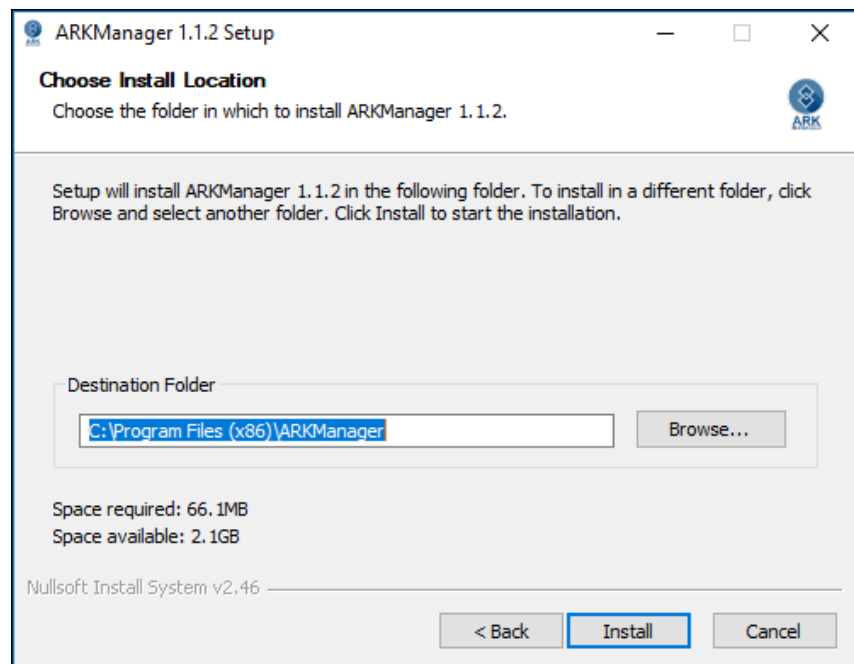
A welcome screen will pop up, click *NEXT* to continue with installation



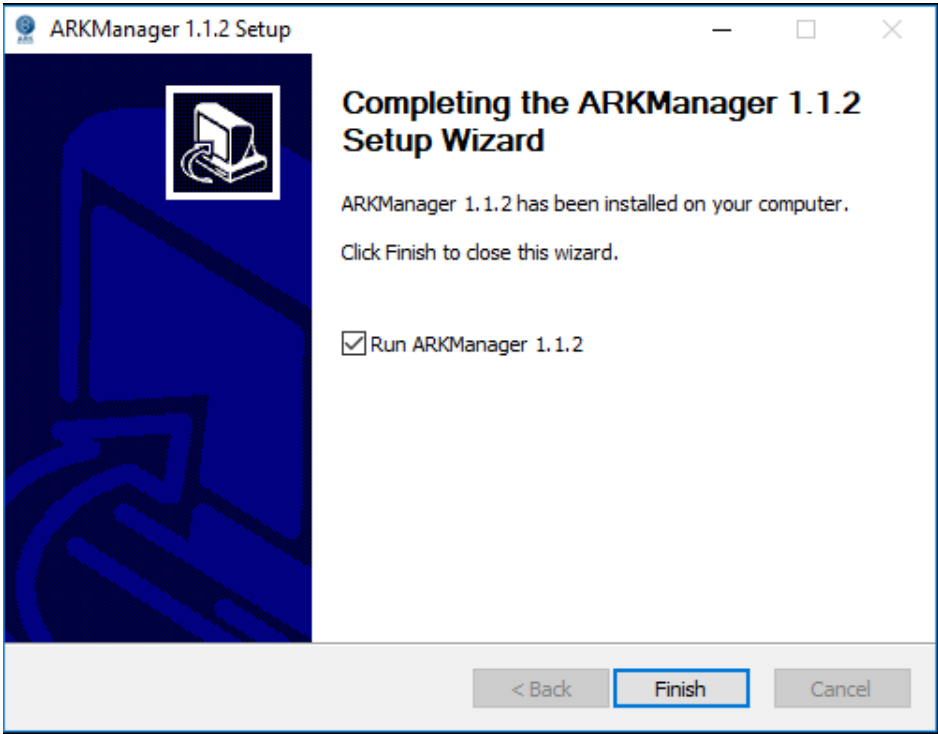
Click 'I accept the terms of the License Agreement' and click *NEXT*



Choose a destination folder on your PC and click *INSTALL* to begin the installation process



After the installation is complete click *FINISH* to complete the installation process and RUN ARKManager



CONFIGURING ARK DEVICE NAME / LOCATION

Connect a PC with the ARK Manager software running onto the same local area network as the DL-ARK systems.

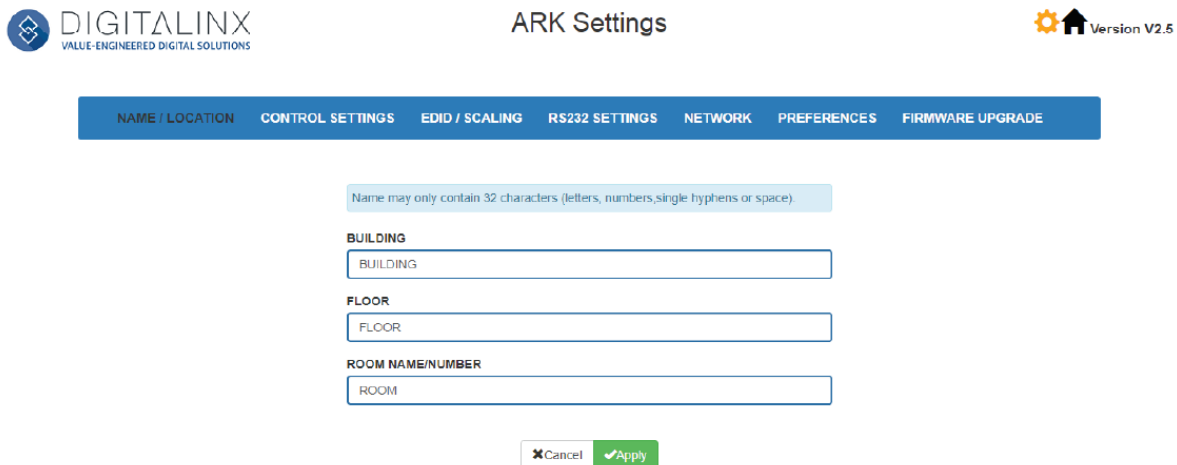
NOTE: The ARK Manager is for LAN use only

Before the ARK Manager is used to monitor DL-ARK systems on a LAN, it is highly recommended that each system's *NAME* and *LOCATION* is customized so each ARK system can populate the building, floor and room number correctly in the ARK Manager device tree.

This is done by navigating to the built in web GUI of each DL-ARK system and accessing the *NAME / LOCATION* menu tab. Instructions are below but can also be found on page 30 of the DL-ARK Deployment Guide.

Configuring Device Name and Location

Once you enter the advanced settings menu, the sub menu *NAME / LOCATION* will be highlighted.



The screenshot displays the ARK Settings web interface. At the top left is the Digitalinx logo with the tagline 'VALUE-ENGINEERED DIGITAL SOLUTIONS'. The page title is 'ARK Settings'. On the top right, there is a gear icon and the text 'Version V2.5'. A blue navigation bar contains several tabs: 'NAME / LOCATION' (which is highlighted), 'CONTROL SETTINGS', 'EDID / SCALING', 'RS232 SETTINGS', 'NETWORK', 'PREFERENCES', and 'FIRMWARE UPGRADE'. Below the navigation bar, a text box contains the instruction: 'Name may only contain 32 characters (letters, numbers, single hyphens or space)'. There are three input fields: 'BUILDING' with the value 'BUILDING', 'FLOOR' with the value 'FLOOR', and 'ROOM NAME/NUMBER' with the value 'ROOM'. At the bottom of the form are two buttons: 'Cancel' and 'Apply'.

In this menu the device can be organized into a building, floor and room naming convention. Enter in the desired building, floor and room identification and click *APPLY*.

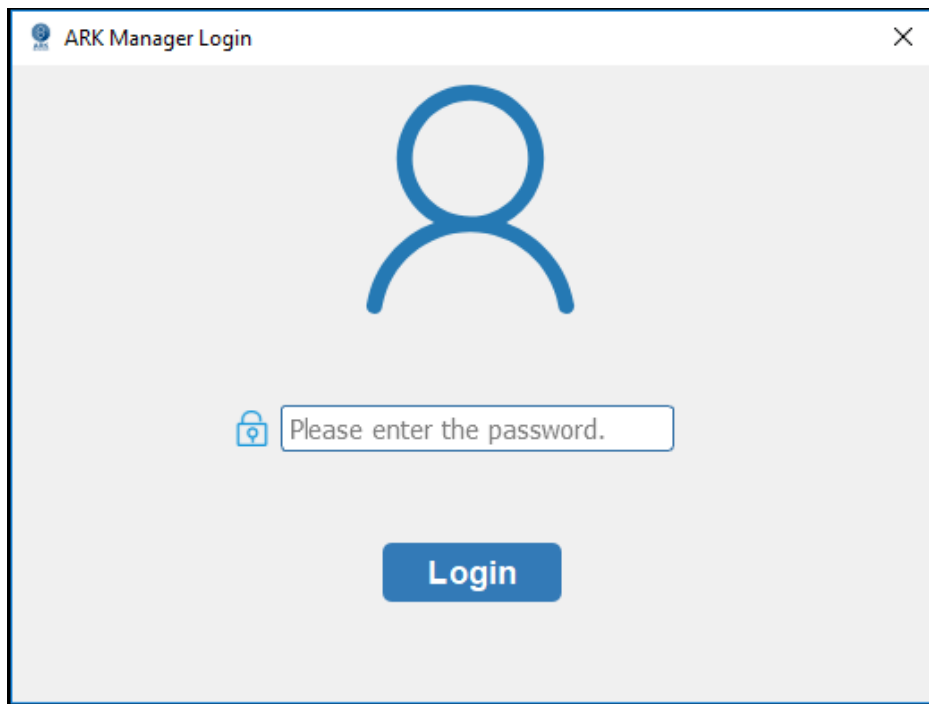
The names given to the building, floor and room for the device will populate on the web GUI controller screen as well as the ARK Manager management software.

LOGGING ON TO ARK MANAGER

Double click on the ARKManager icon on your desktop...

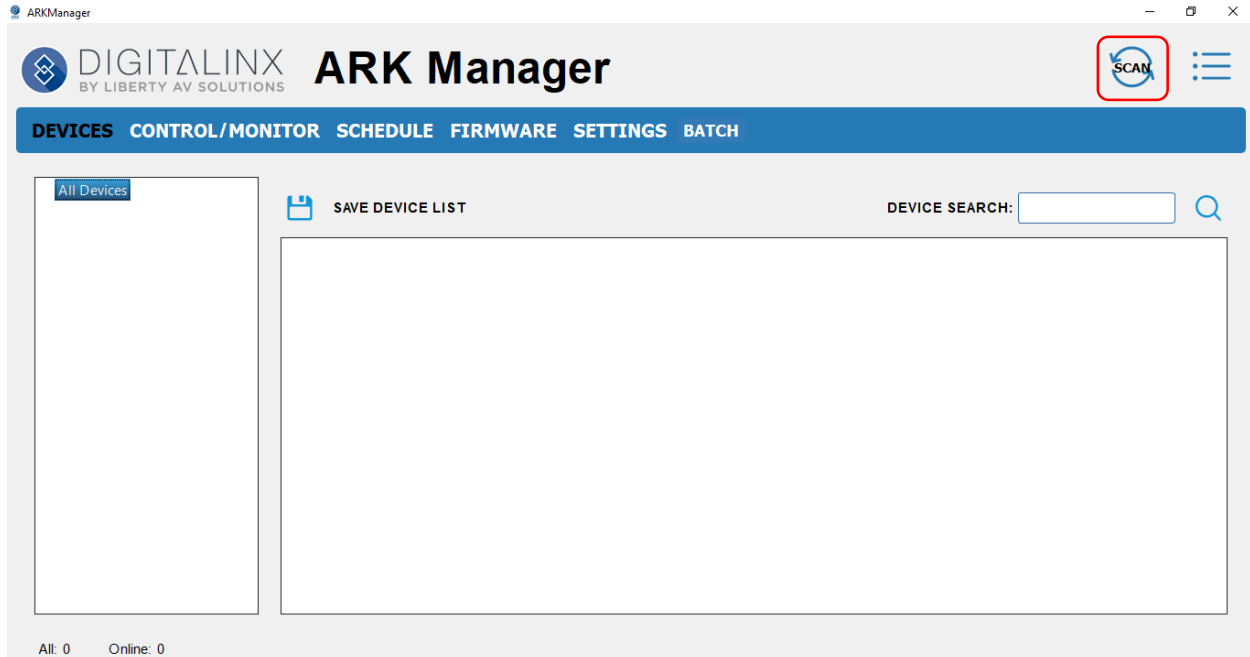


The following login screen will appear, the default password is *admin*

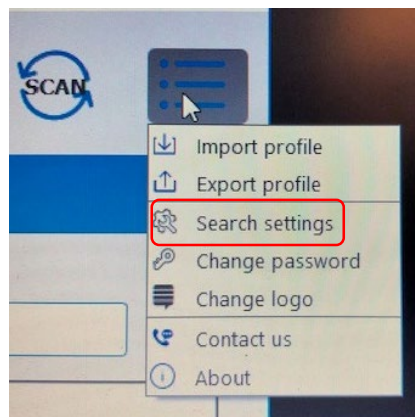


DISCOVERING DL-ARK DEVICES ON A LAN

After you login to the ARK manager, the home screen will appear after you have logged on. Click on **SCAN** to search and locate DL-ARK devices located on the LAN...



NOTE: By default the ARK Manager uses IP Multicast method to search and located devices on a LAN quickly. If you prefer to use IP scanning option by IP address range, click on the menu option at the top right of the home screen and then click **SEARCH SETTINGS**



The *SEARCH SETTINGS* will allow you to decide on what scanning method to use. Multicast is selected by default, when choosing IP SCAN you will need to provide an IP address range to search.

Search settings

Which Scanning Method do you want to use?

- IP Scan
- Multicast
- Manual(from a file)

Scan

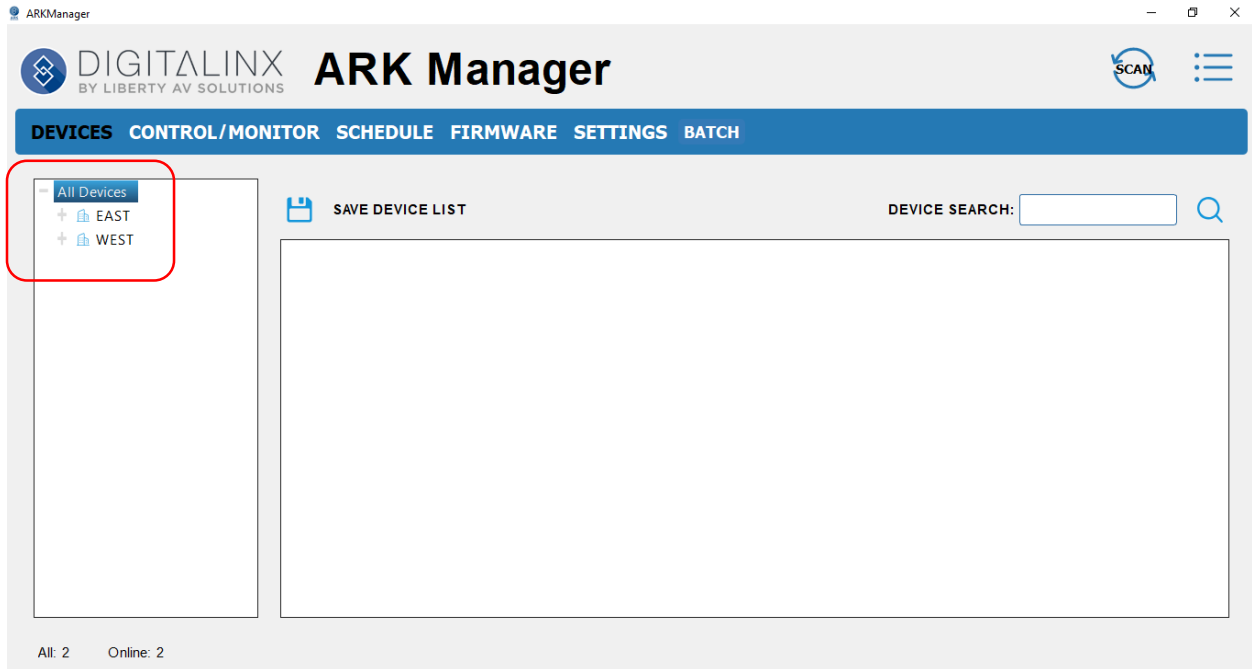
Close

MANAGING DL-ARK DEVICES USING ARK MANAGER

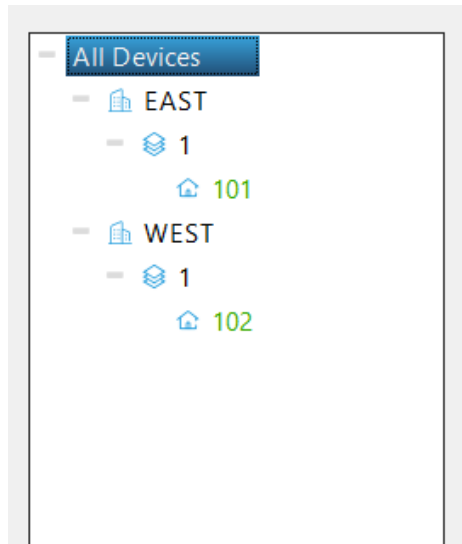
DEVICES MENU

The *DEVICES* menu will show you detailed device info for a selected DL-ARK in ARK Manager.

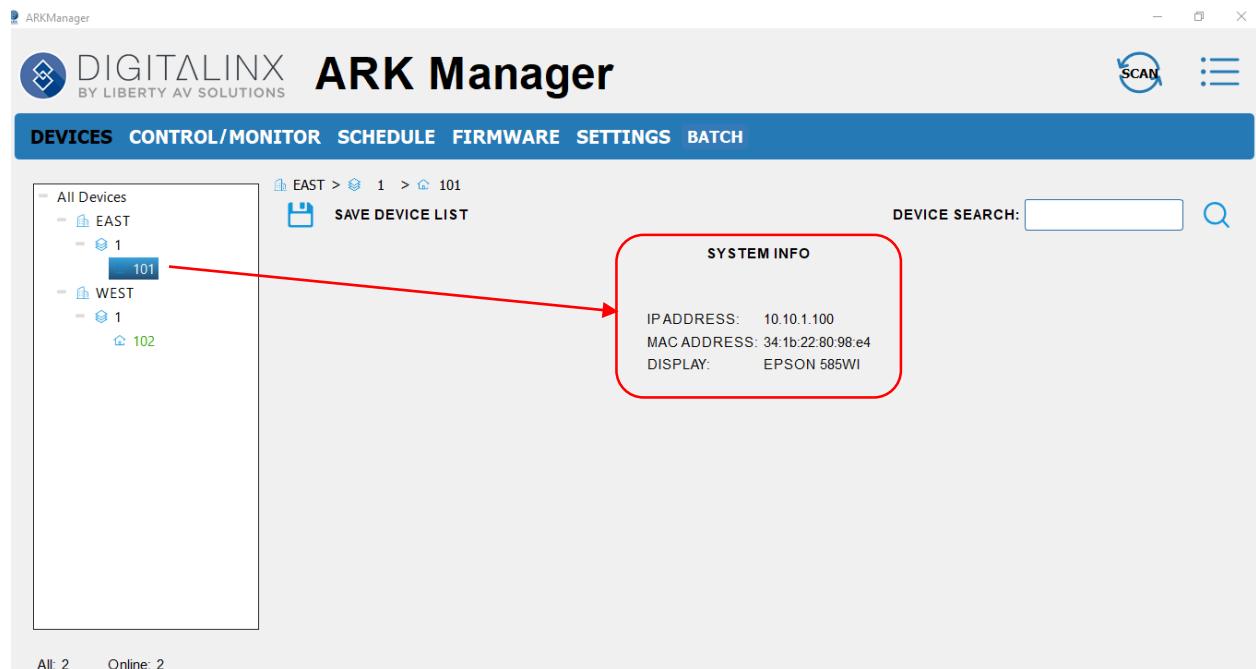
You will notice that all DL-ARK devices will populate per building, floor and room number assigned in each DL-ARK kits GUI settings, see example below. In this example we have two building named **EAST** and **WEST** in the device tree to the left of ARK Manager Software window.



Click on the building, floor to view the room number assigned to the DL-ARK device. In our example system we have configured two systems, one resides in room 101 on Floor 1 in the EAST building and one resides in room 102 on Floor 1 of the WEST building.



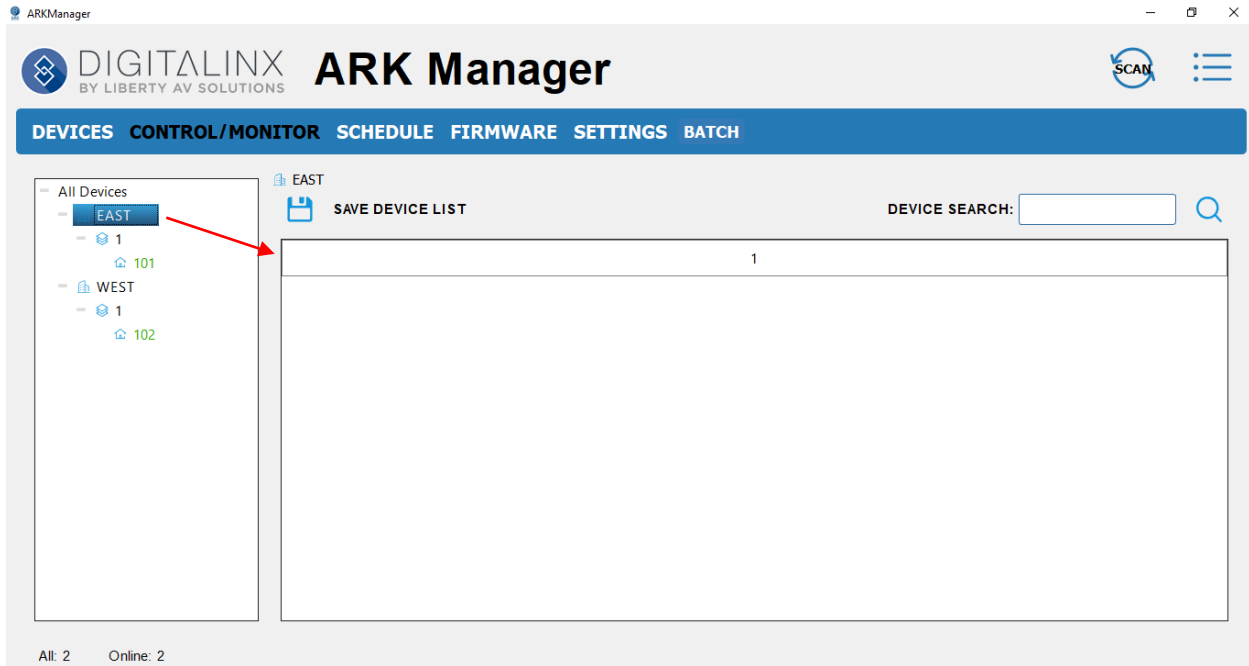
Once you click on a specific device you will see detailed information about the system in this designated room.



CONTROL / MONITOR MENU

The *CONTROL/MONITOR* menu allows you to access and change any of the individual system settings for a selected DL-ARK system on the LAN

Clicking on the **BUILDING** option in the device tree will display the designated floors in that building.



The screenshot displays the ARK Manager web interface. At the top, the logo for DIGITALINX BY LIBERTY AV SOLUTIONS and ARK Manager are visible. A navigation bar contains the following tabs: DEVICES, CONTROL/MONITOR, SCHEDULE, FIRMWARE, SETTINGS, and BATCH. The CONTROL/MONITOR tab is currently selected. On the left side, there is a device tree under the heading "All Devices". The tree is expanded to show "EAST" (highlighted with a red arrow), which contains a sub-entry "1" with a floor icon and the number "101". Below "EAST" is "WEST", which contains a sub-entry "1" with a floor icon and the number "102". To the right of the device tree, there is a "SAVE DEVICE LIST" button and a "DEVICE SEARCH:" input field with a search icon. Below the search field is a large empty table area. At the bottom left of the interface, it shows "All: 2" and "Online: 2".

Click on the **FLOOR** to view devices located in this floor. You will now see a quick list of devices and some select parameters such as Room #, ARK power status, INPUT status, Display Model in room as well as display power control and lamp hours if projector is used

The screenshot shows the ARK Manager web interface. At the top, there is a navigation bar with the following tabs: DEVICES, CONTROL/MONITOR, SCHEDULE, FIRMWARE, SETTINGS, and BATCH. The main content area is titled "EAST > 1" and includes a "SAVE DEVICE LIST" button and a "DEVICE SEARCH:" input field. A table displays the following data:

	ROOM#	ARK POWER ON/OFF	INPUT STATUS 1/2/3/RX4	DISPLAY MODEL	DISPLAY POWER ON/OFF		LAMP HOURS
	101	on	4	EPSON 585WI	ON	OFF	

At the bottom left, it shows "All: 2" and "Online: 2". A red arrow in the original image points from the "1" floor selection in the left-hand navigation menu to the table above.

NOTE: In order to see current display status, turn display on/off and see current lamp hours in this quick view list, the DL-ARK must be configured first with the preferred control protocol and proper commands. For detailed control configuration set up, reference the DL-ARK Deployment Guide on page 31 and 32.

Click on an individual DL-ARK device to access the systems control GUI and advanced settings

The screenshot displays the ARK Manager web interface. At the top, the logo for DIGITALINX BY LIBERTY AV SOLUTIONS and the title 'ARK Manager' are visible. A navigation bar contains tabs for 'DEVICES', 'CONTROL/MONITOR', 'SCHEDULE', 'FIRMWARE', 'SETTINGS', and 'BATCH'. The 'CONTROL/MONITOR' tab is active. On the left, a tree view shows a hierarchy of devices: 'All Devices' -> 'EAST' -> '1' -> '101'. A red arrow points from the '101' device to the main control panel. The main panel, titled 'ARK Control', shows the following information: 'BUILDING: EAST', 'FLOOR: 1', 'ROOM: 101'. Below this are sections for 'A/V INPUTS', 'DISPLAY POWER' (with 'ON' and 'OFF' buttons), and 'SYSTEM POWER' (with 'ON' and 'OFF' buttons). On the right side of the panel, there is an 'AUDIO VOLUME CONTROL / SELECTION' section with two volume sliders, each set to 50%. The interface also includes a 'SAVE DEVICE LIST' button, a 'DEVICE SEARCH' field, and a 'Version V2.7' indicator.

The *CONTROL/MONITOR* option uses the internal built in GUI for the selected device to control or configure said device. For detailed system configuration reference the DL-ARK Deployment Guide on page 27.

SCHEDULE MENU

The *SCHEDULE* menu will allow you to schedule certain functions for a DL-ARK system to be automated at a given time such as system on and off, display on and off etc.

NOTE: In order for this software to run schedules, it must run constantly. It may be wise to designate a computer as a server running ARK Manager on the LAN to perform scheduling functions.

Choose a device in the device tree to schedule....

The screenshot shows the ARK Manager web interface. On the left is a device tree with 'All Devices', 'EAST', '1', 'WEST', '1', and '102'. A red arrow points from the '101' device in the tree to the 'CHOOSE A SCHEDULING FUNCTION' section. This section includes buttons for 'DISPLAY POWER' (ON/OFF), 'SYSTEM POWER' (ON/OFF), and 'INPUT SELECT' (VGA, HDMI 1, HDMI 2, HDMI IN RX). To the right, there are scheduling options: a start time of 3:17 PM, a recurrence pattern (Daily, Weekly, or a day of the week), and a range of recurrence (No end date, End after: 10 occurrences, or End by: 2019-9-3). Below these are 'Ok', 'Cancel', and 'Remove Recurrence' buttons. At the bottom, a 'CURRENT SCHEDULE' table is shown with columns for Action, Start, Pattern, and End. The status 'All: 2 Online: 2' is visible at the bottom left.

Choose what function to schedule...you can choose from DISPLAY ON/OFF, SYSTEM (ARK) ON/OFF and INPUT SELECTION

This is a close-up of the 'CHOOSE A SCHEDULING FUNCTION' menu. It lists three main categories: 'DISPLAY POWER' with 'ON' and 'OFF' buttons, 'SYSTEM POWER' with 'ON' and 'OFF' buttons, and 'INPUT SELECT' with buttons for 'VGA', 'HDMI 1', 'HDMI 2', and 'HDMI IN RX'.

Choose the start date of the schedule, the recurrence pattern and range of recurrence for the function you are scheduling and click OK.

Start: 3:17 PM

Recurrence pattern

Daily
 Sunday
 Monday
 Tuesday
 Wednesday
 Thursday
 Friday
 Saturday

Weekly

Range of recurrence

Start: 2019-9-3

No end date
 End after: 10 occurrences
 End by: 2019-9-3

Ok Cancel Remove Recurrence

Once this is complete you will see the scheduled function shown in the *CURRENT SCHEDULE* in the *SCHEDULE* menu. See example below

CURRENT SCHEDULE: ROOM: 101

Action	Start	Pattern	End
DISPLAY ON	2019/09/04	11:19 Weekly 1 2 3 4 5	No end date

NOTE: You can remove a scheduled function by clicking on the current scheduled function and click *REMOVE RECURRENCE*

FIRMWARE MENU

The *FIRMWARE* menu will allow you to update the selected devices firmware settings.

Firmware is released periodically and instructions for firmware will be released with the firmware update package online however updating firmware is easy. Simply load the firmware file for ARM or MCU update and click UPDATE.

To check the current firmware offering for the DL-ARK navigate to the DL-ARK products page online at www.libav.com and navigate to the FIRMWARE folder

NOTE: The current firmware versions of the DL-ARK device is display in the *VERSION INFORMATION* section of the *FIRMWARE* menu so you can confirm which version is running

ARKManager

DIGITALINX BY LIBERTY AV SOLUTIONS ARK Manager

DEVICES CONTROL/MONITOR SCHEDULE FIRMWARE SETTINGS BATCH

EAST > 1 > 101

SAVE DEVICE LIST

DEVICE SEARCH:

IP ADDRESS: 10.10.1.100
MAC ADDRESS: 34:1b:22:80:98:e4

Version Information

TX-Core: V3.0	RX-Core: V2.8
TX-In-Video: V1.4	RX-In-Video: V1.4
TX-WallBoard: V2.0	RX-Scaler: V2.7

ARM Upgrade

FILE: BROWSE

UPDATE

MCU Upgrade

FILE: BROWSE

UPDATE

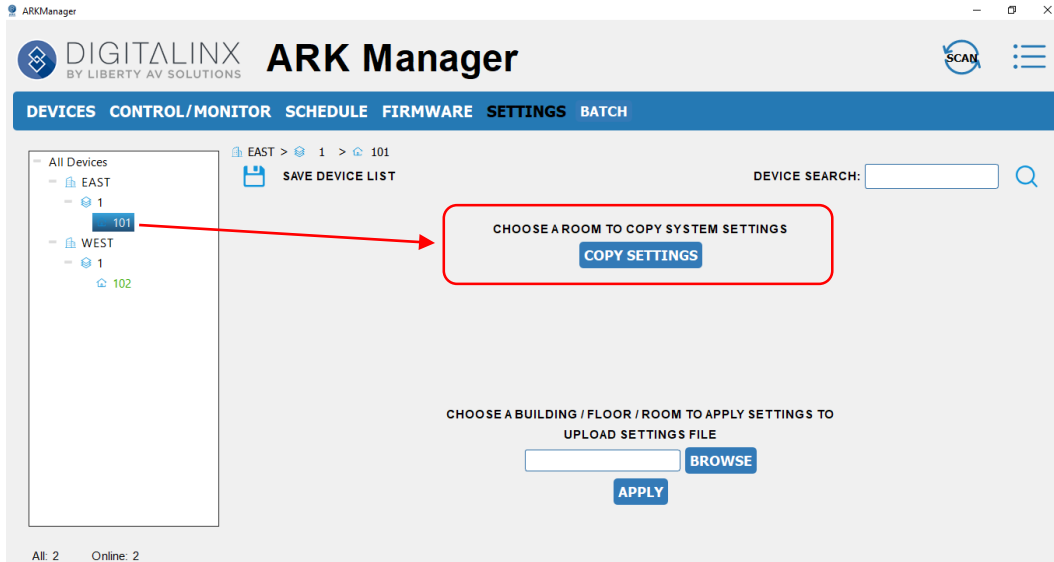
All: 2 Online: 2

NOTE: Firmware can also be uploaded en masse using the *BATCH* menu

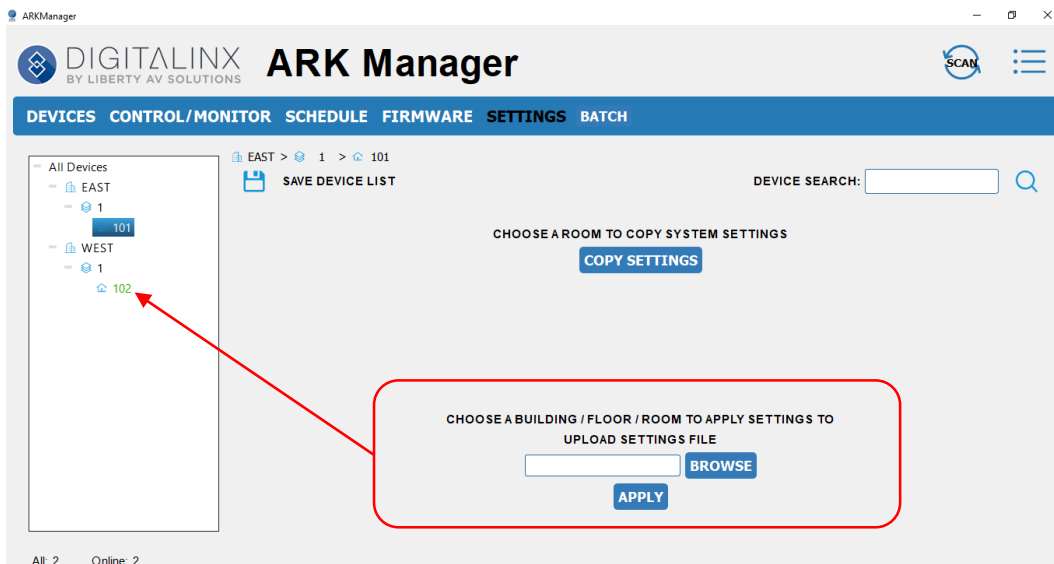
SETTINGS MENU

The *SETTINGS* menu will allow you to copy device settings from a selected device and then apply copied settings to a new device.

Choose a device to copy settings from then click *COPY SETTINGS*, you will be prompted to save and name the copy file onto your local PC hard drive



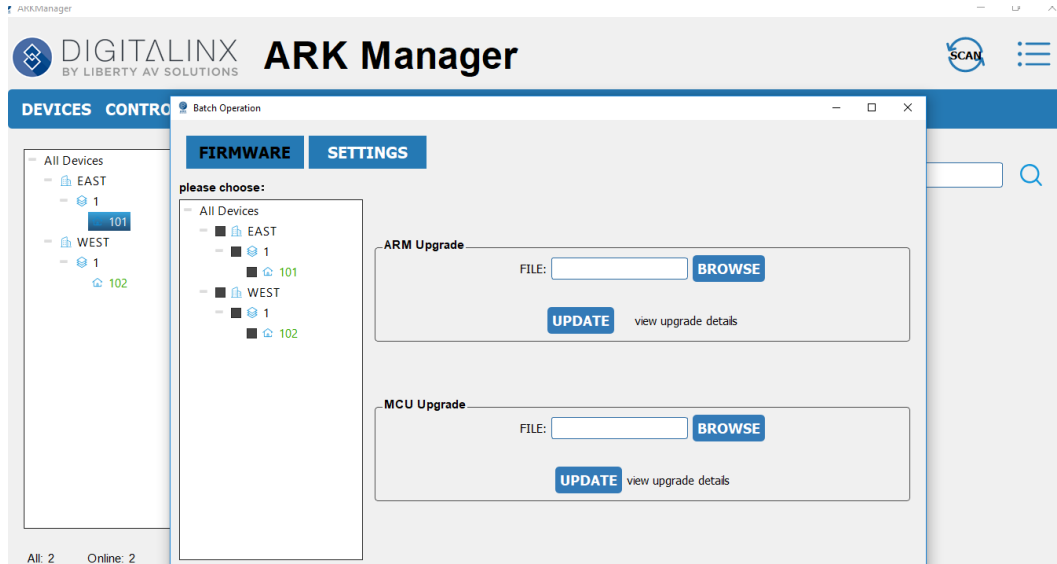
To apply copied settings from a saved copy file to a device, choose the device and then click *BROWSE* to locate the copy file. Then click *APPLY*



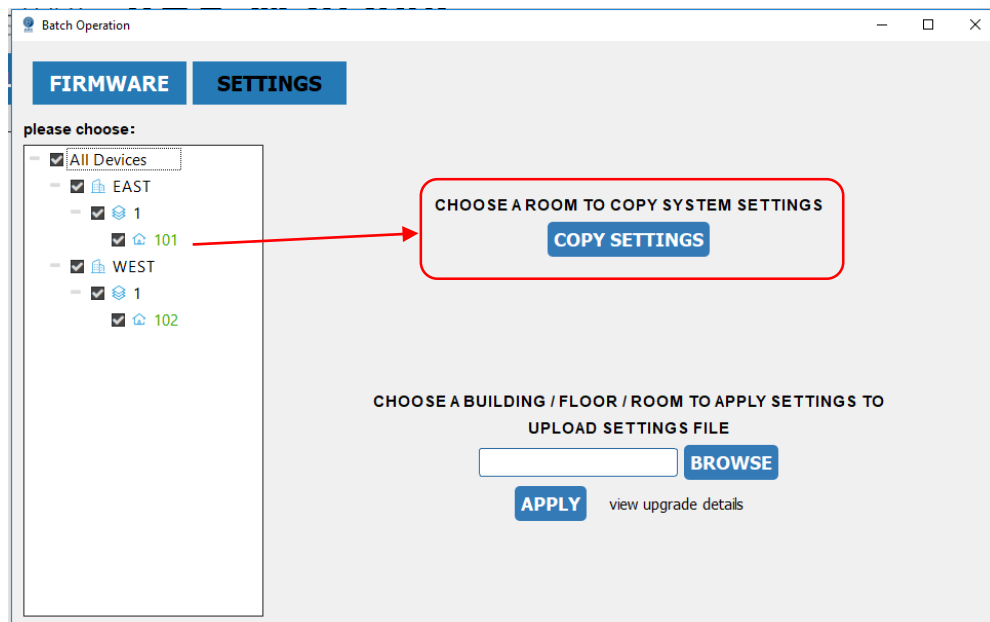
BATCH MENU

The **BATCH** menu will allow you copy and apply system settings and update firmware en masse.

To update firmware en masse for a building or a floor, choose the building or floor number OR choose only devices you want to update from the device tree. Browse for the firmware update file you wish use for the ARM or MCU update then click **UPDATE**.



To copy room settings from a room click on only one DL-ARK device to copy, then click **COPY SETTINGS** to save the copy file on your local PC hard drive.



To apply copied settings en masse for a building or a floor, choose the building or floor number OR choose only devices you want to update from the device tree. Click the *BROWSE* button to locate the copy file on your PC then click *APPLY*

