



Merit Lilin Knowledge Base Article: LILIN DHD Setup in Control4 Composer

Most Recent Update : 04/28/2016

Dept: Technical Support, North America

Subject:

This document covers how to add a LILIN DHD to a Control4 Composer project to be controlled by a Control4 remote.

Requirements:

Control4 Composer: 2.8 or higher

LILIN AHD DVR204A, 208A, 216A

Cable_LILIN_DHD (Recorder driver)

Camera_ip_http_LILIN_DHD_xx.c4i *xx = 01-16 (jpeg live stream drivers for each channel)

Procedures:

Before you begin, please ensure you have plugged an IR Bud to your Control4 Controller, and attached it to the front of your DHD as shown below





In order for your DHD to be compatible with the driver in Composer, you will need to configure your DHD to accept the IR codes that will be produced by the Control4 remote.

1. Log into your DHD by opening Internet Explorer, and typing in the DHD's IP address.
 - a. Right click on the screen to bring up the following menu, and select the 'gear' icon



- b. Select the 'gear' icon on this second menu also





- c. The following screen will appear. Select 'Input Setup'

The image shows a 'System Setup' menu with the following options:

- DVR Name: DVR 16CH AHD
- Language: English
- Video Format Detection: NT
- Auto Lock
 - Enable
 - Timeout (Seconds):
- Auto Reboot
 - Disable
 - Every Day
 - Every Week
 - Sunday
- Date/Time Setup...
- Monitor Setup...
- Input Setup...** (highlighted with a red box)
- Utility...
- OK
- Cancel

- d. Make sure to check the box named 'Enable', and change the IR ID to '0. IC00', and click 'OK'

The image shows the 'Key Tone' configuration screen with the following options:

- Key Tone
 - IR
 - Mouse
- Enable
- IR ID: 0. IC00
- Test
- Pressed Key:
- OK
- Cancel



Now that the DHD is prepared to accept IR commands from the Control4 Remote, please proceed with the following steps:

1. Add the LILIN DHD Driver file to The following 2 locations:

a. Documents > Control4 > Drivers

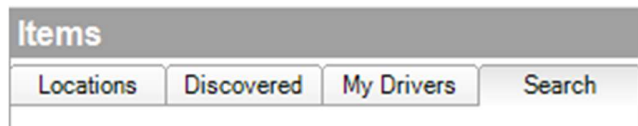
| Name | Date modified | Type | Size |
|------------------------------------|--------------------|----------|----------|
| camera_ip_lilin_ptz | 4/15/2016 9:39 AM | C4I File | 112 KB |
| cable_Lilin_NAV_IP | 4/1/2016 2:31 AM | C4I File | 103 KB |
| intercom_universal.c4z | 3/30/2016 9:35 AM | C4Z File | 18 KB |
| intercom_doorstation_helios_2n.c4z | 3/30/2016 9:34 AM | C4Z File | 91 KB |
| camera_helios_ip_verso_2n_h264 | 3/30/2016 9:33 AM | C4I File | 41 KB |
| tv_HP_L2206tm | 3/29/2016 1:28 PM | C4I File | 12 KB |
| tv_ir_hp_lc2600n | 3/25/2016 10:58 AM | C4I File | 40 KB |
| receiver_Onkyo_HT-R2295a | 3/22/2016 10:11 AM | C4I File | 37 KB |
| cable_LILIN_DHD | 3/15/2016 10:42 AM | C4I File | 27 KB |
| control4_doorstation_ds2.c4z | 3/10/2016 12:12 PM | C4Z File | 4,552 KB |

b. Windows > Program Files (x86) > Control4 > ComposerPro281 > Drivers > Virtual

| Name | Date modified | Type | Size |
|---------------------------------|--------------------|----------|----------|
| cable_Lilin_NAV_IP | 3/22/2016 3:57 PM | C4I File | 95 KB |
| cable_LILIN_DHD | 3/15/2016 10:42 AM | C4I File | 27 KB |
| camera_ip_http_lilin_NAV_PTZ_03 | 2/24/2016 3:36 PM | C4I File | 5 KB |
| wireless_music_bridge.c4z | 1/19/2016 7:36 PM | C4Z File | 2,124 KB |
| MyMusic.c4z | 1/19/2016 7:35 PM | C4Z File | 786 KB |

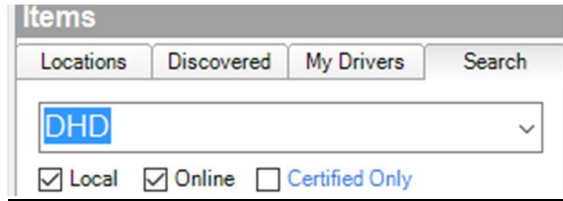
2. Search for the driver within Composer:

a. Click on the Search tab

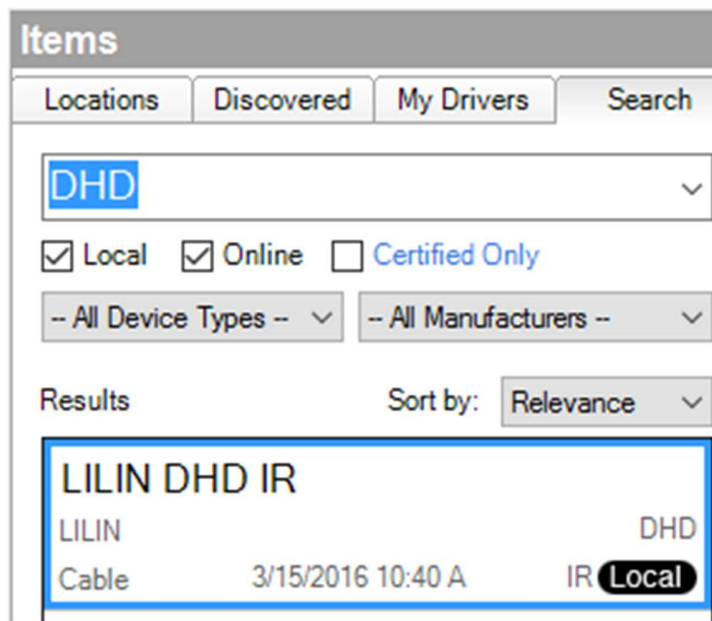




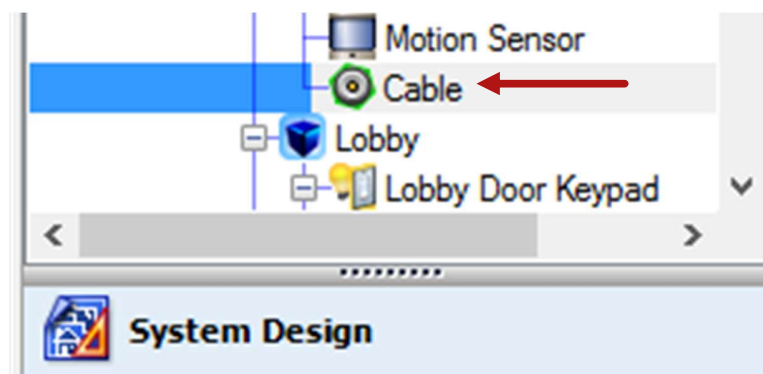
b. Search for “DHD”



c. Select the driver named “LILIN DHD IR”



d. Select the driver on the System Design Tab





e. Set the properties as shown

Properties
Advanced Properties

Swap Up/Down commands with Page Up/Page Down Commands

Programmable Remote Buttons

Red Button
 None Code Macro Help Text:

Green Button
 None Code Macro Help Text:

Yellow Button
 None Code Macro Help Text:

Blue Button
 None Code Macro Help Text:

*** Button**
 None Code Macro Help Text:

Button
 None Code Macro Help Text:

Custom 1
 None Code Macro Help Text:

Custom 2
 None Code Macro Help Text:

Custom 3
 None Code Macro Help Text:

This configuration will allow for the Control4 remote to operate the DHD according to the map shown on the following page



PTZ (Pan and Tilt only)

Enter

Mute

EPTZ

Rewind

Red 2x2
Green 3x3
Yellow 13CH
Blue 4x4

PIP

D-PAD

Escape

Menu

Forward

Playback

Number Pad

Auto Sequence

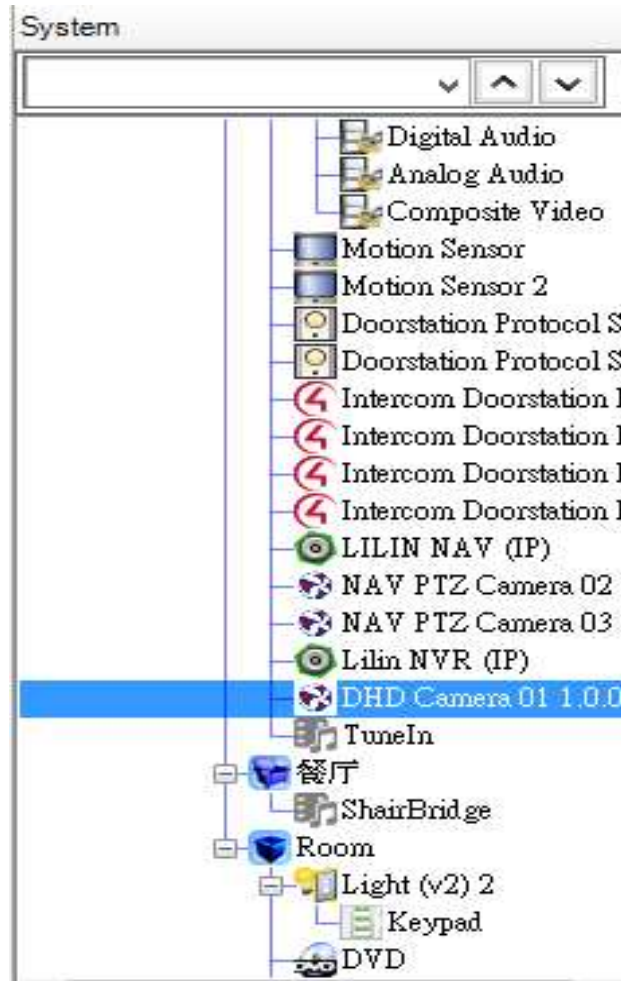


How to pull a JPEG live stream using Control4

Setup for the DHD DVR drivers for live video:

1. Run Control4 Composer 2.8.0 or above
2. Import DHD camera drivers (camera_ip_http_lilin_DHD_XX.c4) into Composer via "Drivers"/"Add".
3. In "System Design"->"Items"->"Search" tab, select LILIN from manufactures.
4. Find the imported DHD camera drivers and double click the driver for "System Design".

| Locations | Discovered | My Drivers | Search |
|--|--------------------|----------------------------|--------------|
| <input type="text"/> | | | |
| <input checked="" type="checkbox"/> Local <input checked="" type="checkbox"/> Online <input type="checkbox"/> Certified Only | | | |
| -- All Device Types -- | | LILIN | |
| Results | Sort by: Relevance | | |
| DHD Camera 05 1.0.0 | | | |
| LILIN | | Static DHD Camera 05 1.0.0 | |
| others | 2016/1/28 下午 12:30 | Local | |
| DHD Camera 03 1.0.0 | | | |
| LILIN | | Static DHD Camera 03 1.0.0 | |
| others | 2016/1/28 下午 12:30 | Local | |
| DHD Camera 01 1.0.0 | | | |
| LILIN | | Static DHD Camera 01 1.0.0 | |
| others | 2016/1/28 下午 12:30 | Other | Local |
| DHD Camera 02 1.0.0 | | | |
| LILIN | | Static DHD Camera 02 1.0.0 | |
| others | 2016/1/28 下午 12:30 | Local | |



5. Select the DHD camera driver. Enter IP information at Properties.

Properties Properties List View Info

Properties

Camera Web Address

Hostname / IP Addr:

Port:

HTTP Authentication


Camera requires HTTP Basic Authentication

Username:

Password:

HTTP Connection Status

Last Reply:

Status:  **Hostname and Port are required.**



6. Click "Test Http Connection" button making sure that the connection is OK.
7. Click "File" or "Refresh Navigators" to update Control4 controller settings.
8. Use Control4 remote and visit Security->Camera. You can then see the video.

Below is a reference chart outlining the functionality supported on various LILIN products:

| Features | Navigator | NVR | AHD DVR | IP Cam |
|-----------------------------|-----------|-----|------------------------|--------|
| JPG live stream | Yes | Yes | Yes | Yes |
| H.264 live | Yes | Yes | | Yes |
| Playback | Yes | Yes | Manual IR code mapping | |
| Audio | Yes | Yes | | |
| SDDP | Yes | Yes | Manual insert driver | Yes |
| Event & email notifications | Yes | Yes | | Yes |
| Remote Control | Yes | Yes | Manual IR code mapping | |
| IVS integration | | | | Yes |
| 4K | Yes | | | Yes |
| PTZ / Fisheye Control | Yes | Yes | | Yes |
| ANPR/LPR | Yes | | | |
| Rack Mount | Yes | Yes | | |

If you still have questions regarding this process, or if you have any questions regarding support for any Lilin products, please feel welcome to reach out to our dedicated support staff @ <http://lilin.zendesk.com>