

Huddly L1 deployment guide

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Introduction

This deployment guide describes how to deploy the Huddly L1 camera in various scenarios, including deploying the software using a MSI installer option and Microsoft Intune.

This document is intended for people who install and set up the Huddly L1 camera.

Prerequisites

This document assumes Huddly L1 software version 1.2.8 or later.

Platforms

Currently the Huddly L1 is only supported on Windows 10 or later versions.

Installation

Single-room deployment

For single-room deployments and evaluation, we recommend using the interactive installer. It offers more options for installation, interactive troubleshooting when something goes wrong, and video preview confirmation when everything is set up correctly.

The steps can be found on <https://huddly.com/l1/setup>

MSI deployment basics

When deploying to several systems, or if you wish to install or update the software remotely, you should use the distributable installer HuddlyCameraSetup.msi. With the distributable installer, you can either install the camera first and deploy the software later or deploy the camera first and install the software later. When everything is connected correctly, camera firmware will update automatically in both cases.

Please see our InTune MSI deployment guide below, or refer to Microsoft's Windows 10 app deployment by using Microsoft Intune | Microsoft Docs guide for more detailed installation instructions.

If you use the distributable installer, the camera firmware will be updated automatically. By default, the setup is configured to update firmware at a randomly selected time between 3 AM and 4 AM local time. It will update all Huddly IP cameras that are connected directly to the host system.



Customizing when and how firmware is updated

If you would like to customize when and how firmware is updated, you can use HuddlyCameraSetup.msi command line arguments. You can specify these command line arguments in your deployment script or directly in the Microsoft Endpoint Manager. For example:

Only update on Sundays and Saturdays (all days by default):

```
FirmwareUpdateDaysOfWeek=Saturday|Sunday
```

Update firmware at a random point in time between 5 AM and 5:30 AM (3-3:50 AM by default):

```
FirmwareUpdateHourOfDay=5,FirmwareUpdateRandomStartSeconds=1800
```

Allow downgrading camera firmware (false by default):

```
FirmwareUpdateAllowDowngrade=true
```

Wipe current configuration (this is required when editing existing configuration parameters during a software update or reinstall).

```
WIPECONFIG=true
```

If you are installing from the command line using msixexec, make sure that you are executing it with administrator privileges. The following is an example of how to install using msixexec:

```
msiexec -i HuddlyCameraSetup.msi WIPECONFIG=true  
CONFIG="FirmwareUpdateDaysOfWeek=Saturday|Sunday,FirmwareUpdateHourOfDay=5" -qn
```

Or, using default configuration, simply:

```
msiexec -i HuddlyCameraSetup.msi -qn
```



Deploying using Microsoft Intune

There are many ways to deploy an application on Windows 10 machines. We will be deploying an application using an MSI installer in this guide.

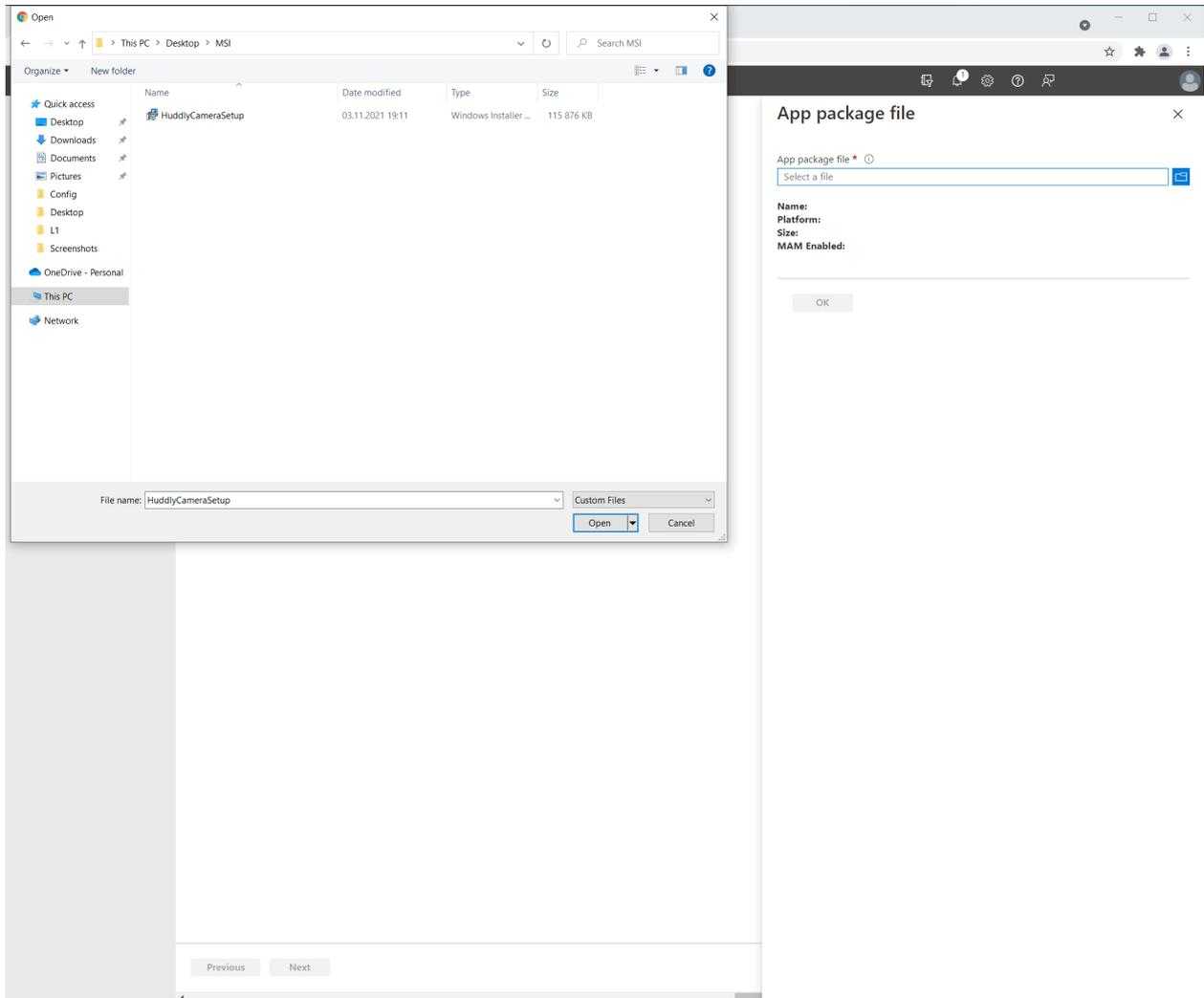
We will be using the Line-of-business apps Deployment method of Microsoft Intune for this deployment. This supports msi, .appx, .appxbundle, .msix, and .msixbundle deployments for Windows.

1. Log in to Microsoft Endpoint Manager admin center - <https://endpoint.microsoft.com/>.
2. Go to Apps -> Windows apps -> Click on + Add.
3. Select Other - Line-of-business app and click Select.

The screenshot shows the Microsoft Endpoint Manager admin center interface. The main content area displays the 'Windows apps' section with a search bar and a table of applications. A 'Select app type' dialog box is open on the right side of the screen. The dialog has a title bar 'Select app type' and a close button. Below the title bar is a 'Create app' section with a dropdown menu for 'App type' currently set to 'Line-of-business app'. The 'Line-of-business app' section contains instructions: 'To add a custom or in-house app, upload the app's installation file. Make sure the file extension matches the app's intended platform. Intune supports the following line-of-business app platforms and extensions:'. Below this are four bullet points: 'Android (APK)', 'iOS (IPA)', 'macOS (IntuneMac)', and 'Windows (msi, .appx, .appxbundle, .msix, and .msixbundle)'. There is a 'Learn more' link. Below that is a section titled 'Validate your applications using Test Base for Microsoft 365' with a paragraph of text and a 'Get started on Test Base' link. At the bottom of the dialog are 'Select' and 'Cancel' buttons.



4. Click “App package file” and select the MSI file.



5. Click OK.

6. Complete the form and select Next.

The screenshot shows the 'Add App' form in the Microsoft Endpoint Manager admin center. The form is titled 'Add App' and is for a 'Windows MSI line-of-business app'. The 'App information' tab is active, showing the following fields and options:

- Select file:** HuddlyCameraSetup.msi
- Name:** Huddly IP Camera
- Description:** Huddly IP Camera
- Publisher:** Huddly
- App install context:** User (selected), Device
- Ignore app version:** Yes, No (selected)
- Command-line arguments:** (empty text box)
- Category:** 0 selected
- Show this as a featured app in the Company Portal:** Yes, No (selected)
- Information URL:** Enter a valid url
- Privacy URL:** Enter a valid url
- Developer:** (empty text box)
- Owner:** (empty text box)
- Notes:** (empty text box)
- Logo:** Select image

At the bottom of the form, there are two buttons: 'Previous' and 'Next'.



7. Select what devices or users to distribute the application to and click Next.

The screenshot shows the Microsoft Endpoint Manager admin center interface. The browser address bar displays the URL: `endpoint.microsoft.com/?ref=AdminCenter#blade/Microsoft_Intune_DeviceSettings/AppsWindowsMenu/windowsApps`. The page title is "Add App" and it is identified as a "Windows MSI line-of-business app".

The navigation pane on the left includes: Home, Dashboard, All services, FAVORITES, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support.

The main content area has tabs for "App information", "Assignments", and "Review + create". The "Assignments" tab is active. It is divided into three sections:

- Required**: A table with columns for Group mode, Group, Filter mode, Filter (preview), and Install Context. One row is shown with "Included" group mode and "All devices" group. Below the table are links for "+ Add group", "+ Add all users", and "+ Add all devices".
- Available for enrolled devices**: A table with the same columns as above. It currently shows "No assignments". Below the table are links for "+ Add group" and "+ Add all users".
- Uninstall**: A table with the same columns as above. It currently shows "No assignments". Below the table are links for "+ Add group", "+ Add all users", and "+ Add all devices".

At the bottom of the page, there are "Previous" and "Next" buttons. The "Next" button is highlighted in blue.



8. Review the configuration and select Create when done

The screenshot shows the Microsoft Endpoint Manager admin center interface. The main content area is titled "Add App" and is for a "Windows MSI line-of-business app". The "Review + create" tab is selected, indicating the final configuration step. The "App information" section lists the following details:

- App package file: HuddlyCameraSetup.msi
- Name: Huddly IP Camera
- Description: Huddly IP Camera
- Publisher: Huddly
- App install context: Device
- Ignore app version: No
- Command-line arguments: --
- Category: --
- Show this as a featured app in the Company Portal: No
- Information URL: --
- Privacy URL: --
- Developer: --
- Owner: --
- Notes: --
- Logo: --

The "Assignments" section is currently empty, showing a table with columns for Group mode, Group, Filter mode, Filter (preview), and Install type. The "Required" group mode is selected. At the bottom of the page, there are "Previous" and "Create" buttons.

9. The MSI is now being uploaded to Azure and will be installed on the devices or to the users you defined in step 7.



Firewall

Since the Huddly L1 camera is an IP camera it needs to communicate on the following ports:

Port	Application	Notes
TCP/UDP 3702	WS-Discovery	
UDP/TCP 554	RTSP media control	
UDP Random (Server) UDP Random (Client)	RTP Media	Specified by host application in RTSP setup
TCP 50051	GRPC API	Camera API used by Huddly applications and other API integrations

In some security software you can change the network setting of the Huddly USB-to-PoE adapter from public to Home/Work and it will permit the communication between the host computer and the Huddly L1 camera. Or simply by trusting the Huddly USB-to-PoE network interface.

Group Policy (GPO)

Some organizations have a Group Policy in place that only allows one network interface to be active at a time. Since the communication between the host computer and the Huddly L1 is done over a link-local network, this GPO needs to be disabled in order for the camera to work.

Lenovo ThinkSmart Manager

In order for the Huddly L1 camera to work in an environment where the host computer is enrolled in ThinkSmart Manager, you will need to enable USB Port Connections for *Other*.

See the following FAQ for more details:

<https://support.huddly.com/huddly-l1-and-lenovo-thinksmart-manager/>

Get help and more information



For more information about installing and setup of the Huddly L1, please refer to <http://huddly.com/L1/setup>

For more information about the Huddly L1 or other Huddly product, please visit <https://www.huddly.com/specs/>

For help and support with the Huddly L1 or other Huddly products, please visit <https://support.huddly.com/>

If you need to contact product support please use the form found at <https://support.huddly.com/contact/>