

How to add a camera to CMS using its Platform Access function

Application: This process will be achieved through the Platform Access feature of the camera interface. The camera can be added to the CMS as long as it has an active internet connection. (*Note: The CMS must be installed on a server which has a public IP address/domain*)

This method can be used to manage devices via the CMS remotely in challenging installation environments where the camera doesn't support P2P function.

Pre-requisite: Setting the Server Management CMU Operations in CMS

The screenshot displays the 'Server Edit' window in the CMS interface. The left sidebar shows a tree view with 'Default Domain' expanded, containing 'CMU_127.0.0.1', 'MDU_127.0.0.1', and 'IAU_127.0.0.1'. The main panel is titled 'Server Edit' and shows details for 'CMU_127.0.0.1'. The 'Server setting' tab is selected. In the 'Basic Setting' section, the 'Device registration protocol' is set to 'Private Protocol'. In the 'Server information' section, the 'Remote IP:Port' is set to '127.0.0.1:10086' and the 'Device registration port' is set to '17888'. Red boxes and numbers 1, 2, and 3 highlight these specific fields. The 'Apply' button is visible at the bottom right of the 'Basic Setting' section.

1. **Remote IP** – Enter the public IP address/domain of the CMS server.
2. **Remote Port** – Enter the external port of the CMS server (it can be the same with local server port. For example, CMU port is 10086, MDU port is 10200, IAU port is 10200).
3. **Device Registration Protocol** – Select *Private Protocol* for non-encrypted connection, or select *Private Protocol (Encrypted)* for encrypted connection.

Notes:

- Leave the **Device Registration Port** as default – CMU is 17888, MDU is 17988, IAU is 17886.
- The remote IP in MDU and IAU also needs to be configured with the same public IP address/domain.

Use a non-encrypted way to connect

Camera Web Configuration

1. **Host name** – Enter the public IP address/domain of the CMS server.
2. **Port** – Enter 17888 (CMU device registration port in platform server management).
3. **Username** – Username of CMU
4. **Password** – Platform password of CMU

The screenshot shows the 'IP Camera' web interface. The 'Setting' tab is selected, and the 'Platform Access' sub-tab is highlighted with a red box. In the left sidebar, 'Network' and 'Advanced Settings' are also highlighted with red boxes. The 'Platform Access' section has a toggle switch turned on. Below it, four fields are numbered with red circles: 'Host Name' (1), 'Port' (2), 'User Name' (3), and 'Password' (4). An 'Encrypt' toggle switch is turned off. An 'Apply' button is at the bottom.

Manually add the camera in the Device Management in CMS

1. Fill in the *Device ID Information* with the camera Device ID (generally, it's the last 6 characters of the camera MAC address).
2. Select *Private Protocol* for protocol.
3. The port is the default **30001**.
4. Select *Device active registration* for connection method.
5. Click *Test* and then *Add*.

The screenshot shows the 'AddDevice' dialog box. It has a dark theme. Fields are numbered with red circles: 'IP/ID/ Domain Name' (1), 'Port' (2), and 'Connection mode' (3). The 'Device Name' field is empty. 'Device Type' is set to 'IPC'. 'Protocol' is set to 'Private Protocol'. 'Port' is set to '30001'. 'Group' is set to 'Default group'. There is an 'Advanced setting' button. 'Connection mode' is set to 'Device active registration'. 'IAU' is set to 'Not Support'. 'MDU' is set to 'Auto'. At the bottom, there are buttons for 'Save and New', 'Test', 'Add', and 'Cancel'.

Use an encrypted way to connect

Camera Web Configuration

Set the following settings:

1. **Host name** – Enter the public IP address/domain of the CMS server.
2. **Port** – Enter 17888 (CMU device registration port in platform server management).
3. **Username** – Username of CMU
4. **Password** – Platform password of CMU
5. **Encryption** – On

The screenshot shows the 'IP Camera' web configuration interface. The 'Setting' tab is selected, and the 'Platform Access' sub-tab is active. The 'Platform Access' toggle is turned on. The following fields are highlighted with red boxes and numbered 1 through 5: 'Host Name', 'Port', 'User Name', 'Password', and 'Encrypt'. The 'Encrypt' toggle is also turned on. An 'Apply' button is at the bottom.

Manually add the camera in the Device Management in CMS

1. Fill in the *Device ID Information* with the camera Device ID (generally, it's the last 6 characters of the camera MAC address).
2. Select *Private Protocol (Encrypted)* for protocol.
3. The port is the default **20001**.
4. Select *Device active registration* for connection method.
5. Click *Test* and then *Add*.

The screenshot shows the 'AddDevice' dialog box. The following fields are highlighted with red boxes and numbered 1 through 3: 'Protocol' (set to 'Private Protocol(encrypted)'), 'IP/ID/ Domain Name', and 'Connection mode' (set to 'Device active registration'). Other fields include 'Device Name', 'Device Type' (set to 'IPC'), 'Port' (set to '20001'), 'Group' (set to 'Default group'), 'IAU' (set to 'Not Support'), and 'MDU' (set to 'Auto'). There is an 'Advanced setting' expandable section. At the bottom, there are buttons for 'Save and New', 'Test', 'Add', and 'Cancel'.