

Camera Setup Instructions

For DPCC Dust-Pollution Monitoring — Action required from the site contractor

To connect your site cameras to the DPCC monitoring system, a simple one-time setup is needed for any camera that can move and zoom. Please follow the steps below.

1. Two types of cameras

Fixed Camera

Does not move — always points at one view.

No setup needed. Only the camera video link is required.

PTZ Camera (Pan · Tilt · Zoom)

Can rotate and zoom to different areas.

ONVIF must be turned on (steps below).

2. Why ONVIF is needed (for PTZ cameras)

The monitoring system needs to automatically **rotate and zoom** the PTZ camera to view every part of the site (dust barriers, anti-smog gun, wheel-wash, etc.). This camera control works through a standard camera setting called **ONVIF**.

- Without ONVIF, we can only see one fixed view and cannot move the camera.
- ONVIF is supported by all major brands (Hikvision, Dahua, CP Plus, etc.), but it is usually **switched OFF by default** and must be turned on.

3. What you need to do

In your camera or NVR (recorder) settings:

1. Turn ON ONVIF.

- **CP Plus:** Main Menu → Setting → Network → Port / Advanced Settings → enable ONVIF; then add an ONVIF user under Account / User.
- **Dahua:** Setup → Network → ONVIF (or Account → ONVIF User) → enable.
- **Hikvision:** Configuration → Network → Advanced Settings → Integration Protocol → tick "Enable ONVIF".

2. Create an ONVIF user — set a username and password, with full / operator rights.

Then share these 3 things with us:

1. Camera IP address
2. ONVIF username
3. ONVIF password

Important: Turning ON ONVIF is not enough by itself. You must also **create the ONVIF user and share that login** — otherwise the connection will be refused (we have already seen this on some site cameras). The ONVIF user must have full / operator rights so the camera can be controlled.

Please note: these are the general steps to be followed; the exact menu names and locations may vary from brand to brand and model to model.

Issued by the DPCC AI/ML Technical Team. For assistance with these settings, please contact us.