



VSD Core Series Web Quick Guide

Camera web interface — setup and everyday use

FIND CAMERAS WITH DEVICE MANAGER

Cameras get their IP address from your network's DHCP server by default, so the address can be anything. Device Manager finds every camera for you — no need to know the address first.

UITEK DEVICE MANAGER v0.2.8

Online 22 Discover Ethernet · Intel I219-V · 192.168.1.20/24 + Search by IP Multi View

All 24 Connected 16 Auth required 6 No response 2 Filter by name · IP · model

DEVICE NAME	IP ADDRESS	VENDOR	MODEL	FIRMWARE	PROFILE	MAC	STATUS
☐ VSD1-NC80ARS5	192.168.1.101 DHCP	UITEK	VSD1-NC80ARS5	1.00 20250101	S · T · M	00:1A:28:00:05:09	Connected
☐ MB1-NL30R5	192.168.1.102	UITEK	MB1-NL30R5	1.00 20240901	S · T · M	00:1A:2F:0D:22:3E	Connected
☐ IP Camera	192.168.1.103	ONVIF	IP Camera	2.1.3	S · G · T	00:1A:36:1A:3F:73	Connected
☐ LB1-NC80ARW5	192.168.1.104	UITEK	LB1-NC80ARW5	1.00 20250101	S · T · M	00:1A:3D:27:5C:A8	Setup required
☐ IP Camera	192.168.1.105 DHCP	ONVIF	IP Camera	1.0.0	S · T	00:1A:44:34:79:DD	Connected
☐ VMD1-NC30AHR5	192.168.1.106	UITEK	VMD1-NC30AHR5	1.00 20250101	S · T · M	00:1A:4B:41:96:12	Connected
☐ VSD1-NC80ARS5	192.168.1.107	UITEK	VSD1-NC80ARS5	1.00 20250101	S · T · M	00:1A:52:4E:B3:47	Connected
☐ MB1-NL30R5	192.168.1.108	UITEK	MB1-NL30R5	1.00 20240901	S · T · M	00:1A:59:5B:D0:7C	Auth required
☐ IP Camera	192.168.1.109 DHCP	ONVIF	IP Camera	2.1.3	S · G · T	00:1A:60:68:ED:B1	Connected

- 1 Install Device Manager on a Windows 10 or 11 PC on the same network as the cameras. Get it from www.uhtek.com.
- 2 Pick your network adapter at the top, then click **Discover**. Cameras show up as they answer.
- 3 Can't see a camera on another subnet? Click **Search by IP** and enter its address or an address range.

No DHCP server on the network? The camera falls back to **192.168.1.64**. Set your PC to the same range (for example 192.168.1.10) to reach it.

Connected — ready to use. **Setup required** — new or reset camera; set a password. **Auth required** — enter its user name and password.

SET THE ADMIN PASSWORD

A new camera, or one that's been factory reset, has no password. You can't view or change anything until you create one — use Device Manager or a web browser.

Use at least 9 characters with uppercase and lowercase letters, a number and a symbol. Don't repeat a character three times in a row or include the user name.

With Device Manager

UITEK · LB1-NC80ARW5

LB1-NC80ARW5

192.168.1.104:80 · 00:1A:3D:27:5C:A8

Setup required

 **Set initial password**

This device is in factory-default state. Set the administrator password to start using it.

Username

ADMIN

New password

At least 9 characters

Confirm password

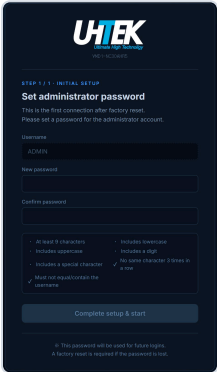
Mix upper/lower case letters, digits and symbols. The device rejects passwords that don't meet its rules.

Apply

- 1 Select a camera that says **Setup required**.
- 2 Enter a new password twice and click **Apply**.
- 3 The camera switches to **Connected**. Sign in as **ADMIN** from now on.

Select several cameras to set the same password on all of them at once.

In a web browser



- 1 Type the camera's IP address into Chrome, Edge or Safari.
- 2 The **Set administrator password** page opens. The user name is always **ADMIN**.
- 3 Enter the new password in both boxes. The list under them checks off each rule as you type.
- 4 Click **Complete setup & start**, then sign in with **ADMIN** and your new password.

Keep the password somewhere safe. If it's lost, the only way back in is a factory reset — hold the RESET button for 10 seconds.

OVERVIEW PAGE

Check camera status and change the settings you use most from one screen.

Overview

Check camera status and manage key settings.

System Summary

Model	MX-NC70RS5	Firmware	1.00 20250101
MAC address	c4:a1:0e:bf:fd:45	IP address	172.17.254.83
Uptime	0h 38m	CPU temperature	41.8 °C

Network bandwidth

TX — RX — Peak —

Quick Settings

Event detection

On

Enables or disables motion, intrusion, line crossing, and tampering detection together.

Recording

On

Mode: Event recording

DHCP

On

Main stream resolution

2592×1944

Sub stream resolution

1024×768

System summary	Model, firmware, IP and MAC address, uptime, CPU temperature and live network bandwidth.
Quick settings	Turn event detection, recording and audio on or off, switch between DHCP and static IP, and change stream resolution.

Changing a resolution restarts the live stream and any recording in progress for a few seconds.

LIVE VIEW

Watch the camera in real time and see what the AI is detecting.



Fullscreen	Fill the screen. Press Esc to exit.
Zoom + / -	Digital zoom from the center. Drag to pan while zoomed in.
AI Boxes	Show a box and confidence score on every person, vehicle and bicycle.
Detection Zones	Overlay your motion, line, intrusion and exclusion zones on the video.
Snapshot	Save the current frame as a PNG.
Stream	Main for full quality, Sub for everyday viewing (default), Mobile for slow connections.
Audio / Mic	Listen to the camera, or talk through its speaker. Two-way audio needs HTTPS.
Side panel	Open the Info tab for device and stream details, or Events for a running list of detections.

When something crosses a line, the line flashes red for about 1.5 seconds and its counter goes up.

PLAYBACK

Review footage saved to the microSD card.



- 1 Click the calendar icon and pick a day. Days with recordings have a blue dot.
- 2 Click anywhere on the timeline to start playing from that point. Scroll to zoom in or out.
- 3 Use **-1m / -10s / +10s / +1m** to skip, or **Previous / Next event** to jump between events.

Speed	0.5× · 1× · 2× · 4× · 8×
Split view	Play up to four recordings side by side.
Timeline colors	Gray continuous · Blue motion · Purple AI · Orange alarm in · Red network loss · Yellow tamper
Download	Save a time range or just the event clips as a ZIP of MP4 files.

IMAGE SETTINGS

Tune the picture for your site. Changes show up in the preview right away.

Camera Settings

Adjust professional image parameters — exposure, color, backlight, night mode.

Preview



Brightness 127

Contrast 127

Saturation 127

Sharpness 136

Exp Auto WB Auto (AWB) D/N Auto (light sensor)

No active features

Image settings

Reset now

Image

Exposure

Advanced

Day / Night

Brightness

Contrast

Saturation

Sharpness

CORRIDOR VIEW / FLIP

Vertical flip

Horizontal flip (Mirror)

Corridor view

Image	Brightness, contrast, saturation and sharpness. Flip the image or rotate it 90° for hallways.
Exposure	Leave on Auto. Set the power frequency (50/60 Hz) if you see flicker or banding.
Advanced	WDR for bright windows and doorways. BLC when only one area is too dark. DNR to clean up noise at night.
Day / Night	Switches to black-and-white with IR when it gets dark.

VIDEO QUALITY

Each stream has its own codec, resolution, frame rate and bitrate.

Stream	Best for
Main	Recording and close-up review
Sub	Live viewing and multi-camera layouts
Mobile	Phones and slow connections
AI	Video analytics

H.265 saves space over H.264. 15 fps is plenty for most monitoring; use 25–30 fps for smooth motion. Use the storage calculator at the bottom of the page to see how many days your card will hold.

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NETWORK

Get the camera on the right address before connecting it to an NVR.

TCP/IP

Configure the camera's base addressing (IPv4 - IPv6 - DNS).

IPv4

Assignment

Static IP DHCP

IP address

172.17.254.91

Subnet mask

255.255.255.0

Gateway

172.17.254.1

MAC address

c4:a1:0e:b1:f6:45 (read-only)

DNS servers

Primary DNS

172.17.100.10

Secondary DNS

172.17.100.11

DNS can still be set manually under DHCP. Recommended: Google (8.8.8.8), Cloudflare (1.1.1.1).

IPv6

Use IPv6

Disabled Auto (On/Off) Manual

IPv6 link-local address

fe80::c6a1:c11:f6d7:1285

IPv6 address

IPv6 gateway

DHCP or static?
DHCP gets an address from your router automatically, but it can change after a restart.
Static keeps the same address. Use it with an NVR or when you have several cameras.
Static IP checklist

- Same subnet as your PC and NVR
- Not used by any other device
- Gateway is your router's address

A wrong setting can make the camera unreachable. Check with your network admin first.

PORTS & RTSP

Service	Default port
HTTP	80 – web page
HTTPS	443 – encrypted web page. Use it if the camera is reachable from the internet.
RTSP	554 – video for NVRs and video players

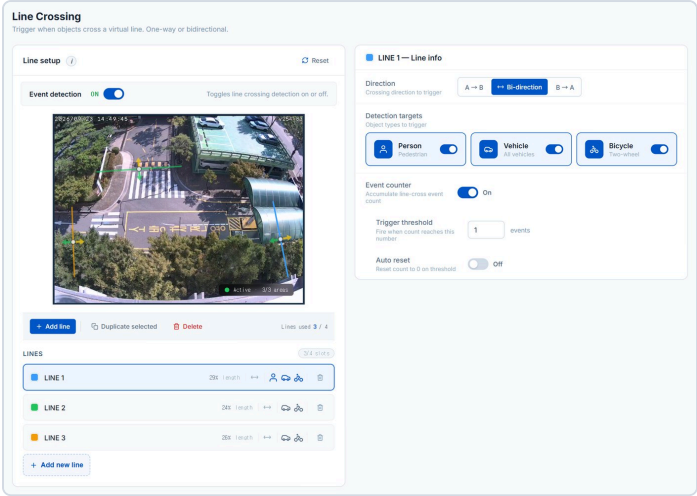
Stream addresses

Main	rtsp://<camera-ip>:554/streaming1
Sub	rtsp://<camera-ip>:554/streaming2
Mobile	rtsp://<camera-ip>:554/streaming3
AI	rtsp://<camera-ip>:554/streaming4

If you change a port, update your NVR too – the old address stops working.

LINE CROSSING

Get an alert when someone or something crosses a line you draw.

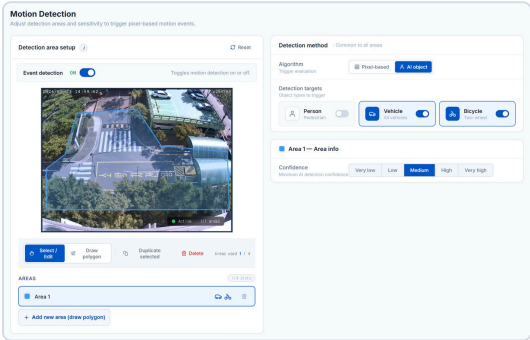


- 1 Click **Add line**, then drag the A and B ends into place.
- 2 Pick a direction — **A → B**, **B → A** or **both** — and what to detect: people, vehicles or bicycles.
- 3 Optional: show a crossing counter on the live view, reset it at midnight, or play a voice message.

Counting people at a door? Set the direction to both, detect people only, and draw the line across the full doorway.

MOTION DETECTION

Draw up to four zones and choose how motion is judged.



Pixel-based	Fast and works on every model, but shadows, animals and lighting changes can set it off.
AI object	Only reacts to people, vehicles and bicycles — far fewer false alarms.
Sensitivity	Set day and night separately (0–100). Start around 50 / 40 for a typical store.

INTRUSION & LOITERING

Watch an area and get alerted when something enters, leaves or hangs around.

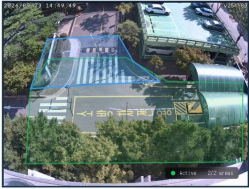
INTRUSION DETECTION

Trigger when subjects stay in a defined area for a set duration.

Event detection

ON

Toggles intrusion detection on or off.



Select / Edit

Draw polygon

Duplicate selected

Delete

Areas used 2 / 4

AREAS

Area 1

Area 2

+ Add new area (draw polygon)

Area 1 — Area info

Condition

When to fire the event

[-] Enter

[+] Exit

Loitering

Dwell time

Trigger after N seconds

30

sec

Detection targets

Object types to trigger

Person

Vehicle

Bicycle

Event counter

Accumulate event count for this area

Off

On

Trigger threshold

How many times the event must occur

1

events

Auto reset

Reset count to 0 on threshold

Off

On

Enter / Exit	Triggers when an object moves into or out of the zone.
Loiter	Triggers when an object stays in the zone longer than the time you set.
Counter	Sends an extra alert after a set number of events (1-9999).

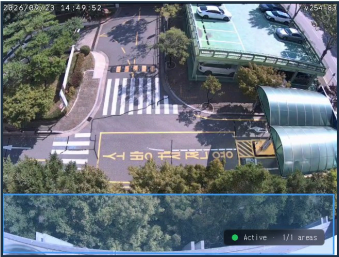
AI EXCLUSION ZONES

AI Detection Exclusion Areas

AI object detection (person/vehicle/bicycle) is ignored inside these areas.

Exclusion area setup

Reset



Select / Edit

Draw polygon

Duplicate selected

Delete

Areas used 1 / 4

AREA LIST

Area 1

+ Add new area (draw polygon)

Block out parts of the scene the AI should ignore. Objects inside these zones never trigger events, line crossing or intrusion.

Good places to use them

- Trees or banners that move in the wind
- Traffic lanes outside your area
- Monitors and digital signs

Up to four zones.

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EVENT ALERTS

Choose what happens for each type of event — all from one table.

Event Alerts

Configure actions to run when events occur.

Event Linkage

Away

Work Hours

Record Only

Clear All

EVENT \ ACTION	Email 0	SD Record 2	Snapshot 2	FTP Upload 0	ALL
Motion Detection General motion in the scene	*	✓	✓	*	2 / 4
AI Event Line crossing · Intrusion	*	*	*	*	0 / 4
Tampering Detection Camera blocked, moved, or out of focus	*	✓	✓	*	2 / 4

✓ Connected

■ Not connected

Action Details

Email (SMTP)

Server
Recipients

Edit Settings

FTP Upload

Server
Path

Edit Settings

SD Recording

Mode
Stream
Pre / Post

Edit Settings

Snapshot

Filename Pattern
Capture Interval

Edit Settings

- Click a cell to link an event to an action: email, SD recording, snapshot, FTP upload, alarm out or audio.
- Click a row number to turn every action for that event on or off.
- Presets set everything in one click: **Away**, **Work Hours** and **Record Only**.

EVENT ACTIONS

Alarm out	Trigger a siren, strobe or NVR input. N.O. or N.C., on for 5–300 seconds or until you clear it.
Snapshot	Save a JPG when an event starts, and keep taking them while it lasts.
White LED	Turn on steady light, or flash slow, medium or fast to warn intruders.
Audio	Play a voice message through the camera speaker, up to 10 times.

In event recording mode, the camera records only when the **Record** action is turned on for that event.

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AI SETTINGS

These settings apply to every AI feature, including line crossing and intrusion.

AI model	Outdoor for parking lots and open areas, Person for lobbies and hallways, Face for entrances. Changing models restarts the camera.
Confidence	Lower it to catch more; raise it to cut false alarms.
Static filter	Ignore parked cars and people who stay put.
Object size	Skip objects that are too small or too large. Presets: Far, Mid, Near.
Reference point	Which part of the box counts as the object's position. Bottom tracks people by their feet.

TAMPERING DETECTION

Know right away when someone covers, moves or blurs the camera.

Tamper Detection

Detect physical interference such as lens covering, view change, focus change, etc.

Basic

Level

OffLowMiddleHigh

Level	Use it for
Low	Outdoors – wind, sun and vibration
Middle	Most indoor sites (default)
High	Unattended rooms and secure areas

Lights that switch off at night can look like tampering. Lower the level if you get false alerts.

RECORDING

Choose when to record and which stream to save.

Policy

Set file-split, retention, pre/post-record buffer, and snapshot interval.

Recording Mode

Mode

Event recording

🕒

Event mode records only when an event is triggered. In Event Alerts, enable the "Recording" action for Motion/AI/Alarm/Tamper events for recording to actually happen. [Open Event Alerts](#)

Continuous recording

Recording Channel

Sub Stream

Event recording

Recording Channel

Main Stream

Schedule

Always

Pre-record Duration

5 Sec

Includes the seconds before each event

Post-record Duration

15 Sec

Continues recording after the event starts

Off	Nothing is recorded. Existing footage is kept.
Continuous	Records around the clock. Uses the most space.
Event	Records only when something happens. Easier to search and saves space.

Record the **Main** stream for evidence-quality video, or **Sub** to fit more days. Add pre- and post-event seconds to see what happened before and after.

STORAGE

Check the card's status, free space and estimated retention. You can also back up to FTP, SMB or NFS.

- Format erases every recording on the card for good. Download anything you need first.
- microSD cards wear out. If the card turns read-only, replace it.

USERS

Give each person only the access they need.

User Management

Manage users with camera access.

Users (2)

Add user

Username	Role	Last login	Actions
ADMIN (you)	Admin	2026-09-29 14:44	Edit Delete
USER1	Admin	2026-09-29 14:12	Edit Delete

Role permissions

Access differs by role

User

User

Find user

Can only view Live - Playback - System info. Settings pages are blocked.

Manager

Manager

Operator

User rights > edit Video > Event detection > Event actions > Recording policy: view system logs.

Admin

Admin

Administrator

Manage rights > Network > Storage > System-critical settings. Only role that can create/delete users.

Feature	USER	MANAGER	ADMIN
Basic access			
Live view / Playback / System info	✓	✓	✓
Enter settings pages	✗	✓	✓
Video & events			
Video settings (Basic ISP-Codec-OSD-Audio)	✗	✓	✓
Event detection (Motion-Line-Intrusion-AI-Tamper)	✗	✓	✓
Event actions & Recording policy, System logs	✗	✓	✓
Network & system			
Network settings (TCP/IP-Ports-SMTP-etc-802.1x)	✗	✗	✓
Storage (SD card mount-format)	✗	✗	✓
User mgmt / Security policy / Backup-Restore / Time	✗	✗	✓

Only Admin can create or delete user accounts.

admin	Full control, including users, firmware and factory reset.
manager	Live view, playback, events, alerts and recording.
user	Live view and playback only.

Password rules

- At least 9 characters
- Uppercase, lowercase, number and symbol
- No character three times in a row
- Can't contain the user name

AUTO LOGOUT

Sign out automatically after 1-120 minutes with no activity. You get a 60-second warning first — click anywhere to stay signed in.

Security Policy

Auto sign-out

Auto sign-out

Auto sign-out

Auto sign-out duration

5 min

Behavior

After the configured idle time without keyboard / mouse activity, the user is signed out. A warning modal appears 30 s before sign-out.

DATE & TIME

Set your time zone and turn on **NTP** so recordings have the right timestamps (for example, pool.ntp.org). You can also click **Sync with PC**.

BACKUP & RESTORE

Export your settings to a file to restore them later, or copy them to other cameras of the same model. Firmware, recordings and the MAC address aren't included.

Restoring also restores network settings, so the camera's IP address may change.

FIRMWARE UPGRADE

Firmware Upgrade

Upgrade the device using an uploaded firmware file.

Current Version

Current Firmware

Model

Build Date

1.00 20250301

MX-NC70855

2025-03-01

Upload File

Drag a firmware file or click to select

.bin, .img, .dat supported

Select File

Start Upgrade

⚠ Do not power off during upgrade. Device restarts automatically when complete.

- 1 Make sure the file matches your camera model and is newer than what's installed.
- 2 Drop the file onto the upload area and start the upgrade.
- 3 The camera restarts. Check the new version on **System Info**.

Don't unplug the camera or the network cable during the upgrade.

FACTORY RESET

Full reset	Everything back to factory defaults — settings, users and network.
Keep network	Resets everything except IP, ports and SNMP.
Keep users	Resets device settings but keeps user accounts.

No access to the web page? Hold the RESET button on the camera for 10 seconds.