

Timezer Edge — Install guide (venue mini-PC)

This guide is for the technician installing Timezer Edge on the sports-court mini-PC. Cameras stay on the local LAN. Timezer Cloud (website/admin) stays on the internet.

1. What you need

- Mini-PC or NUC with Windows or Linux and Docker installed
- Internet (to reach Timezer Cloud) plus LAN access to IP cameras
- Device activation code (Timezer Admin → Timezer Edge → create device)
- Cloud URL, usually <https://timezer.com>
- Camera RTSP access (user/password and URL, e.g. `rtsp://192.168.1.20:554/...`)

2. Files on the mini-PC

Create a folder such as `/opt/timezeredge` (Linux) or `C:\timezeredge` (Windows) with:

- `docker-compose-prod.yaml`
- `mediamtx/mediamtx.yml`
- `.env` (copy from `.env.example`)

3. Configure `.env`

```
EdgeAgent__CloudBaseUrl=https://timezer.com
EdgeAgent__ActivationCode=YOUR_CODE_HERE
EdgeAgent__AllowInsecureTls=false
EdgeAgent__DefaultHeartbeatIntervalSeconds=30
EdgeAgent__RollingBufferSeconds=120
EdgeAgent__RollingSegmentSeconds=5
```

4. Start containers

```
docker pull zalinsk/prod_timezeredge:1.0
docker compose --env-file .env -f docker-compose-prod.yaml up -d mediamtx edge-agent
```

Do not enable the lab profile with real cameras. Lab only publishes a synthetic test pattern.

5. Confirm device Online

In Timezer Admin → Timezer Edge, the device should show Online within ~30 seconds (heartbeat). Afterwards you may clear `EdgeAgent__ActivationCode` from `.env`; credentials remain under `/opt/timezeredge/data`.

6. Add cameras

Admin → Cameras → Add:

- Edge device: the device you just activated
- Court (resource): required — one camera per court for replay
- Local camera id: short id (e.g. `cam1`)
- Stream provider: RTSP (or `SimulatedRtsp` for lab only)
- RTSP URL: LAN address; use separate username/password fields when prompted
- Enable the camera

The agent downloads the camera list on heartbeat, starts the rolling buffer, and accepts clip requests.

7. Sponsor overlay (optional)

Admin → Resources → Edit court → Clip sponsor overlay: enable, upload top and/or bottom strips, set height (0–200 px). Preview shows Instagram 9:16.

8. Test a clip

- Admin → Cameras → Clip button, or
 - Player: My bookings → Court replay → Create clip
- The clip appears in Clip library and on R2 when Cloud storage is configured.

9. Local ports

- 8554 — RTSP (MediaMTX)
- 8888 — HLS preview
- 9997 — MediaMTX API (localhost-only in production compose)

10. Common issues

- Device Offline: check internet, CloudBaseUrl, and edge-agent logs
- Wrong scene / future video: wait for buffer warm-up (~15s) and use an updated agent
- No camera video: test RTSP on the LAN with VLC; check mini-PC firewall
- Overlay image missing: Cloud PublicApplicationBaseUrl must be reachable from the mini-PC