WILEX TECHNOLOGIES

IP CCTV Networking Guide

Practical Technology Guide

1. Architecture

• IP CCTV commonly consists of cameras, PoE/network infrastructure, an NVR or VMS and client devices.

2. Addressing

• Document device names, IP addresses, MAC addresses and locations. Avoid unmanaged duplicate addressing.

3. PoE & Bandwidth

• Check switch PoE budget and uplink capacity.

• Camera bandwidth depends on resolution, frame rate, codec and scene activity.

4. Troubleshooting & Security

• Check power, link status, cable, switch port, IP configuration and recorder discovery when a camera is offline.

• Use strong passwords, limit administrative access and avoid unnecessary internet exposure.

Wilex Technologies — established 2021 | 0728 347 331 | ayata@wilextechnologies.co.ke