

UK CCTV & SECURITY FIELD STANDARDS

2026 Homeowner & Commercial Field Specification Guide | Lead Engineer: Gary Pearce

1. THE BRITISH DORI STANDARD (IEC 62676-4)

Resolution density measured in Pixels Per Metre (PPM) at target distance:

DETECTION (25 PPM)	OBSERVATION (63 PPM)	RECOGNITION (125 PPM)	IDENTIFICATION (250 PPM)
Detect human presence Target occupies ~10% of field	Observe clothing & scene Target occupies ~25% of field	Recognise familiar faces High-confidence repeat ID	Police & Crown Court evidence 100% facial feature ID guaranteed

2. FOCAL LENGTH VS REAL-WORLD COVERAGE

Choosing the wrong focal length creates severe optical distortion or missed coverage:

2.8mm Wide Angle 108° Field of View Best for: Small yards, entry doors, enclosed porches. Identification Range: Up to 4.5 metres	4.0mm Standard 84° Field of View Best for: Standard UK driveways, front gardens. Identification Range: Up to 8.2 metres	6.0mm Telephoto 52° Field of View Best for: Narrow alleyways, gates, outbuildings. Identification Range: Up to 14.5 metres
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3. WHY WIRELESS CAMERAS FAIL: THE 2.4GHz JAMMING REALITY

Organised burglars across the UK now routinely carry handheld 2.4GHz de-auth transmitters.

WIRELESS WI-FI BATTERY CAMERAS	SOLID COPPER CAT6 POE HARDWIRED
Vulnerable to 15 handheld RF jammers Severe sleep-wake latency (misses fast walk-bys) Thick British cavity brick walls kill signal Battery depletion in UK sub-zero winters Cloud subscription fees (£100+/year per camera) VERDICT: High risk of total footage loss	100% Immune to RF/Wi-Fi jamming devices Zero latency: 24/7 continuous 4K 25fps recording Single cable delivers power + lossless data Local on-premise NVR vault (Zero monthly fees) Full smart phone remote view with instant alerts VERDICT: Police-preferred evidence standard

4. UK LAW & ICO PRIVACY MASKING CHECKLIST

Operating CCTV legally under UK Data Protection & Information Commissioner's Office guidelines:

BOUNDARY RESPECT	Cameras must capture strictly within your property boundary. Any public road or neighbour garden must be masked.
HARDWARE PRIVACY MASKS	Commercial NVRs support hardware privacy blocks (blackened-out sectors) to eliminate disputed neighbour friction.
AUDIO CAPTURE PROHIBITION	Continuous audio recording on public footpaths breaches ICO proportionality tests. Disable audio on public perimeter.
CLEAR SIGNAGE	Display clear warning signs indicating CCTV recording, operator name, and contact details for legal compliance.

EXPERT FIELD ENGINEERING & ACCREDITATIONS

Lead Engineer: Gary Pearce | ADI Communications | 25+ Years Physical Trade Experience

Qualifications: NVQ 1-3 Aerials & Satellite | NVQ 1-4 Data Cabling & Fibre | NVQ 1-3 Electrical | Certified CCTV Installer

Standards: Fitted with CAI-benchmarked equipment and double-screened solid copper cable | £10M Public Liability

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