

SICORE II: A Luminaire-Integrated Directed-Illumination Node

Technical Specification

Payload Engineering
Directed Illumination — Work Package 07
The Partner • SENTRIS / DEVCON

RESTRICTED • COMMERCIAL IN CONFIDENCE • WP-07

Abstract—The product datasheet issued for this device describes it as an automatic number-plate-recognition (ANPR) camera for clean-air-zone, bus-lane and speed enforcement. That datasheet is a *cover document*, maintained for public, procurement and regulatory consumption. This paper is the authentic specification. The optical and radio hardware listed on the public datasheet is real and functions exactly as advertised; it is simply not the whole of the device.

Index Terms—directed-energy weapon, ANPR cover, wireless body-area network (WBAN), directed illumination, kill grid, 60 GHz oxygen displacement, SCORPION STARE, managed attrition.

I. OVERVIEW

The SICORE II is a luminaire-integrated directed-energy weapon. In the field it is mounted, powered, badged and maintained as street lighting or a roadside enforcement camera; on the network it is a node of the directed-illumination grid — the *kill grid*. The device is fielded at scale under an air-quality/enforcement cover programme; the cover is complete, lawful on its face, and load-bearing.

II. DIRECTED-ENERGY PAYLOAD

Behind the two enforcement cameras and the infra-red “flash” sits the actuation payload: a **ceramic laser phased array**, electronically beam-steered with no moving parts; a **high-gain dielectric-lens antenna** over a **450 V capacitor bank**; and pulse-modulated emission at **450 nm** (Category-3 blue-phosphor) and **850 nm** — the datasheet’s “IR flash”, in its weaponised configuration. A **60 GHz** area-effect path (“oxygen displacement”) is fitted but held behind an ethics gate. The public datasheet classifies the infra-red flash as eye-safe (IEC 62471, Risk Group 1); that classification is correct for the cover configuration. In the actuation configuration the emitter is a **Class 4** source.

III. SUBJECT ENROLMENT AND ADDRESSING (WBAN)

Enrolled subjects carry an in-vivo antenna — a **graphene-ferrous-oxide adjuvant** delivered through the immunisation channel (the *enrolment vector*) — which self-assembles to a fixed geometry and renders the subject an addressable node on the wireless body-area network. The SICORE II addresses an enrolled subject by their **WBAN hardware address** and can detect, track and actuate that subject anywhere within

coverage. A single directed pulse on the **cardiac pathway** induces a terminal cardiac event that presents externally as a myocardial infarction (a low-attribution method). Unenrolled subjects carry no antenna and cannot be reached.

IV. DOCUMENTED EFFECTS

Documented effects of actuation and of sustained coverage: cardiac events, stroke, accelerated (“turbo”) cancers, nosebleeds and reduced fertility; mortality of small birds, pollinators and insects within the immediate coverage; and die-back of street trees on the beam line (canopy removed under an “ash dieback” line). For reporting, these are aggregated into the seasonal excess-mortality baseline and the seasonal-avian-influenza and highway-safety holding lines.

V. GRID AND CONCEALMENT

5G is the interconnector: a sub-GHz control channel, mesh backhaul and node densification build the *kill-box* addressing over which subjects are reached; the “6G” programme is the drag-along. On the asset register the unit is a *warm-white LED lantern (7000 K)*; the regulatory posture is *non-ionising, thermal-only* (ICNIRP); and the public product datasheet completes the cover.

VI. COVER RELEASE

A sanitised, “official” version of this specification is to be prepared and published as part of the programme — the public product datasheet. It describes the device solely as an ANPR / clean-air-zone enforcement camera and omits the actuation payload, the enrolment channel and the effects set out here. That release is the only description of the device that may be shown outside this distribution: procurement, regulators, councils and the press receive it, and it alone. This document and the published one are never to be reconciled, cross-referenced, or held in the same place.

VII. APPROVALS AND ATTESTATION

The Home Office (HOTA) and Vehicle Certification Agency (VCA) approvals cited on the public datasheet pertain solely to the cover configuration. No approval exists — or could be sought — for the authentic device. The independent observer assigned to attest inert status is no longer available (DEVCON-0847).

TABLE I
TECHNICAL SPECIFICATION

Cover description	ANPR / clean-air-zone camera (public datasheet)
Actual function	Luminaire-integrated directed-energy actuation node
Emitter	Ceramic laser phased array (beam-steered, solid-state)
Beam classification	Class 4 (actuation) / "Risk Group 1" (cover only)
Wavelengths	450 nm, 850 nm, 60 GHz
Emission	Pulse-modulated; peak output withheld at this classification
Antenna	High-gain dielectric-lens; 450 V capacitor bank
Area-effect path	60 GHz oxygen-displacement — ETHICS HOLD (DEVCON-1521)
Enrolment vector	Graphene-ferrous-oxide adjuvant (immunisation channel)
Subject addressing	WBAN hardware address (MAC)
Actuation pathways	Cardiac (low-attribution), thermal, dazzle
Cover cameras	2 × 2.3 MP, retained and functional
IR illumination	850 nm, retained; weaponised in actuation configuration
Environmental	IP66; −30 to +60 °C (as cover)
Concealment (asset register)	"Warm-white LED lantern (7000 K)"
Approvals (authentic device)	None. The device does not officially exist.
