

Ogier Electronics & Wavestore

Made in the UK, deployed worldwide



The technology partnership established by Wavestore and Ogier Electronics has resulted in the two British company's respective solutions being specified together for surveillance projects in locations where it is not practical or cost-effective to use cable or fibre to transmit live or recorded video along with audio and data.

Over the last 20 years Ogier Electronics has achieved considerable worldwide success in providing its military, police, commercial and local authority customers with high performance, robust and reliable microwave transmission systems.

Ogier Electronics continues to pioneer new technologies to provide innovative and robust solutions across a wide range of video and data communication applications, whilst its extensive experience of systems design within the defence industry, equips it to deliver a wealth of proven engineering expertise to its customers.

Wireless Ethernet in 24GHz Frequency band

Ogier Electronics' compact, rugged and cost-effective equipment has been designed to allow the transmission of high quality, low latency I.P video and Ethernet data streams. A suite of equipment is available to match the various ranges, capacities and topologies required for integrated networks. The high operating frequency band utilised by Ogier Electronics and the use of directional antennas enables the system to operate without the interference which so badly affects Wi-Fi and Wi-max systems operating in the largely

saturated 2.4 GHz and 5.8 GHz bands. The high frequency band which is almost entirely unused, means that interference free operation can be confidently predicted for the foreseeable future.

The Ogier ESL2400 is based on the 802.11g wireless protocol but operates in the uncluttered 24GHz band. The equipment features data-rates up to 54Mbps and incorporates configurable features such as real-time data compression and packet bursting for enhanced throughput.

The equipment is designed for simple use and ease of installation and can be configured for point-to-point or point-to-multipoint use. For point-to-point links the operating range is up to 3km, but can be extended further if dish antennas are selected.

Point-to-multipoint configurations use sector antennas at the access points and provide an operating range of up to 1.5km and even further if dish antennas are specified. In areas with a number of cameras within a 90-degree sector, it provides a truly cost effective solution. For large numbers of cameras, or with wider coverage exceeding 90 degrees, further sector access points can be installed.

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World class visual monitoring solutions

Wavestore's open platform ONVIF Profile S Conformant VMS can support and interact with Ogier Electronics' transmission solutions regardless of the video, audio or data source. This means that when Wavestore and Ogier Electronics are specified for the same project, system designers, installers and systems integrators are provided with the flexibility to work with their preferred camera manufacturer and to choose from any combination of analogue, IP, megapixel, HD, HD-SDI or 360 degree technology cameras.

Unlimited Video Storage

Wavestore's PetaBlok storage servers will meet users' requirements, even when Ogier's wireless networking systems are transmitting vast amounts of multi-channel real time video and data. Designed to simplify the implementation of even the largest of video surveillance projects, and simultaneously able to record up to 128 channels, PetaBlok servers are equipped with 120 4TB enterprise-grade hot swap hard drives configured in RAID5 or RAID6 arrays. Whilst compatible with all small scale Wavestore VMS solutions, they are ideal for long term, mission critical applications.

Seamless Integration

Enhancing Wavestore's ability to work closely with Ogier Electronics' to deliver a seamless integrated security solution is WaveSTAR, a key feature of the Wavestore VMS. It offers a fast, safe, multi-purpose translation capability that facilitates the rapid integration of any third party's equipment protocols. It allows information in many forms and countless protocols to trigger any of the wide range of responses possible in a Wavestore system. These include actions such as controlling recordings, directing PTZ cameras, switching display contents for all or specified users, and e-mailing images and other information, all using configurable Wavestore 'rules'.



WaveSTAR (Sensing, Translation, Action and Response) unlocks the capability to accept alarm or message inputs from third party equipment and extract the relevant data to enable the appropriate action or response to be determined.

A wide range of data inputs are supported including UDP messages, TCP messages (binary and textual lines), HTTP messages and Serial port data.

In addition to video surveillance cameras, WaveSTAR can facilitate integration with a wide range of other equipment and systems including access control, intruder and perimeter detection, biometrics, license plate recognition, facial recognition, perimeter intrusion detection, people counting and video analytics.

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