


intelligent analytics



Gazelle

The next generation of high accuracy,
low cost of ownership, privacy
protecting people counters



 Works with
Apple iBeacon

Gazelle 2

The next generation of high accuracy, low cost of ownership, privacy protecting People Counters

The Gazelle 2 opens up new possibilities for partners and end users

The Gazelle 2 is the next generation of the popular Gazelle range of People Counters from Irisys, the world's largest supplier of retail analytics platforms. With the addition of Bluetooth setup capability, iBeacon functionality, wider field of view 90° lens, a new sensor array and networking options, the Gazelle 2 is a flexible hardware solution that can guarantee the fidelity of data that end users demand, and the right to anonymity of those being counted. The Gazelle 2 builds on the capabilities of the Gazelle range, with variants to suit virtually any retail environment or infrastructure, and is packed with new innovations to make it the most desirable People Counter on the market today.

With a number of upgrades from previous models, the Gazelle 2 range also includes:

- NEW 90° lens option, opening up a huge range of installation possibilities, such as:
 - Wider coverage so fewer sensors required, saving time and money
 - Wider range of compatible entrances and mounting heights
 - Increased field of view
- NEW 24 x 24 thermal array, giving 50% better resolution
- NEW Wireless setup option using Bluetooth technology
- FREE E-learning training system on the Irisys Partner Portal
- Full compatibility with existing Gazelle network - simply plug in your Gazelle 2
- Faster and easier installation than ever before
- API available for partner software integration
- Full compatibility with Irisys Estate Manager

Key Features

- Thermal Kinetics based people counting, for accurate data collection that also ensures privacy
- Integrated Bluetooth and iBeacon capability
- DualView video auditing system to verify count accuracy
- Free Validation Tool software
- Coverage of entrances in excess of 160ft (50m) wide using the WideTracker feature
- Industry leading reliability
- Aesthetic mounting and housing options



Gazelle 2 Overview

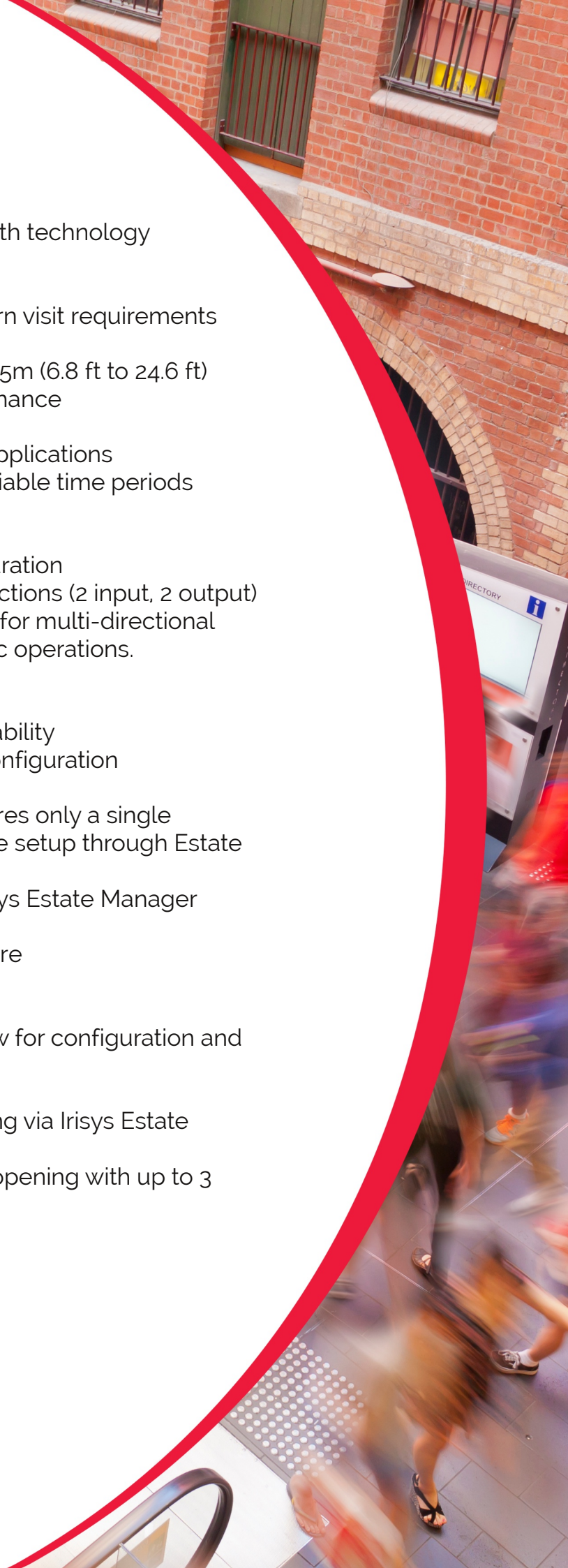
- Operation independent of ambient light
- Minimal set up, now possible using Bluetooth technology
- Full remote configuration capability
- Lowered installation costs
- Lower ongoing support costs; minimal return visit requirements and industry leading low-cost of ownership
- Flexibility of mounting heights from 2.2 to 7.5m (6.8 ft to 24.6 ft)
- Highly accurate, verifiable counting performance
- Robust and accurate counting algorithms
- Flexible configuration for a wide range of applications
- Built-in data log with time stamped and variable time periods
- Non-volatile setting storage
- User-definable count lines
- Web browser setup tool for remote configuration
- Built-in relays for data input and output functions (2 input, 2 output)
- Up to 16 count lines and 32 count registers for multi-directional counting and additional advanced line logic operations.

Secure and universal IP applications:

- Full Power over Ethernet (PoE) 802.3af capability
- Single IP address for data collection and configuration
- Secure SSL IP protocol
- On-board push connection capability requires only a single outbound port for data retrieval and remote setup through Estate Manager software
- Rest API for delivery of data from within Irisys Estate Manager software
- Robust flexible and powerful IP infrastructure

Integrated Video validation

- Simultaneous video and thermal target view for configuration and count accuracy determination
- Remote verification capability
- High-speed video download with scheduling via Irisys Estate Manager software
- Visual auditing and configuration for wide-opening with up to 3 linked units



The Gazelle 2 opens up new possibilities for partners and end users

Aesthetic and unobtrusive bulkhead mounting with IP cable entries hidden from view

- Exceptionally discreet
- Fully recessed design for true in-ceiling mounting
- Simple removable front cover for painting or custom colouring
- Engineering drawings available for custom cover design

The Gazelle series is accompanied by a suite of modular software tools, to remotely support and maintain Gazelle devices, as single units or as part of a worldwide estate. This suite includes:

- Free access to the Gazelle Validation Tool to support remote validation and audit of people counting performance.
- Our secure People Counter Setup and Configuration Tool, allowing video and thermal views to be observed simultaneously.
- Estate Manager tool for users to manage an estate of Gazelle devices via a centrally located, unified framework for task scheduling, video file download and management, error and diagnostic reporting, and device configuration.

The Gazelle 2 and its accompanying software suite combine to deliver a complete intelligent analytics platform providing an unmatched people counting solution to deliver reliable and accurate performance analytics.

Synergy Partner Program

Irisys' commitment to operating through a worldwide network of value adding partners, supported by our Synergy Partner program. Synergy membership carries a number of benefits, please enquire for more details.

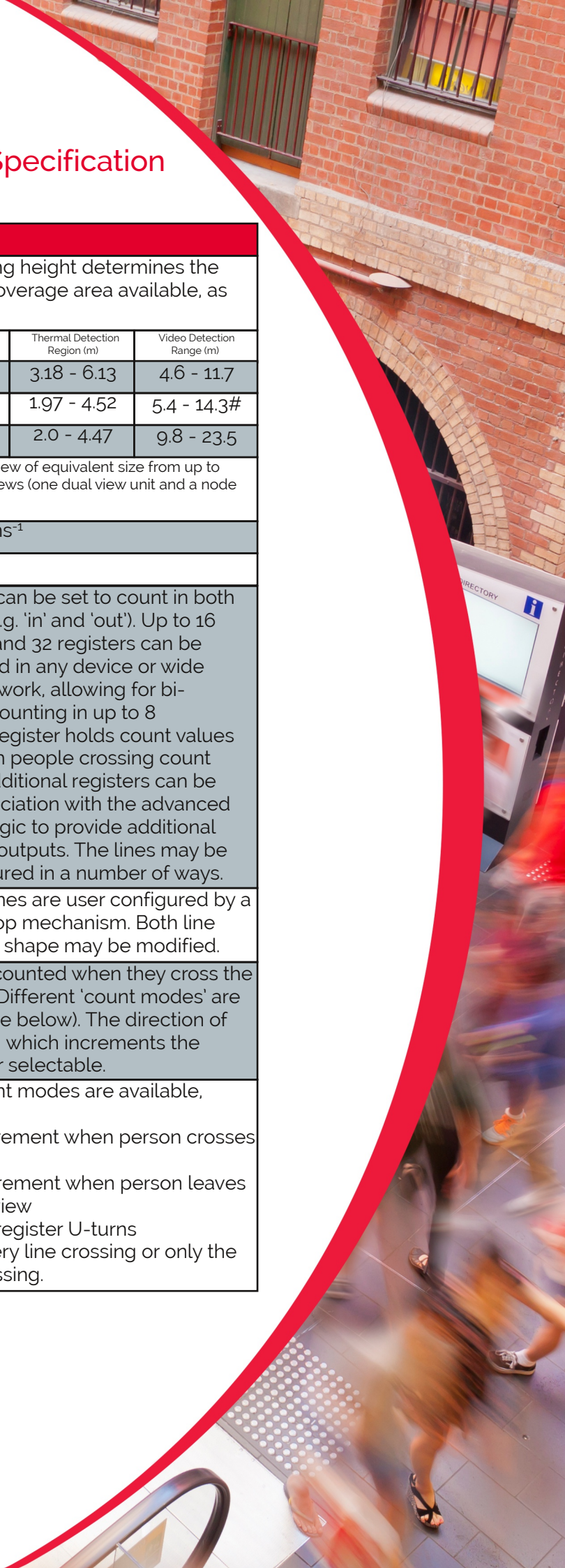


Gazelle 2

Gazelle DualView & IP - Technical Specification

continued

Technical Specifications			
Coverage pattern	The mounting height determines the maximum coverage area available, as seen below.		
Height Options	Height Range (m)	Thermal Detection Region (m)	Video Detection Range (m)
90° Field of view	2.5 - 4.5	3.18 - 6.13	4.6 - 11.7
60° Field of view	2.2 - 4.8	1.97 - 4.52	5.4 - 14.3#
40° Field of view	3.5 - 7.5	2.0 - 4.47	9.8 - 23.5
	#Allows video view of equivalent size from up to three thermal views (one dual view unit and a node unit either side)		
Detection Speed Range	0.5ms ⁻¹ - 3ms ⁻¹		
Temperature Sensitivity	< 2.0K		
Count Lines and Registers	Count lines can be set to count in both directions (e.g. 'in' and 'out'). Up to 16 count lines and 32 registers can be implemented in any device or wide opening network, allowing for bi-directional counting in up to 8 locations. A register holds count values derived from people crossing count lines. The additional registers can be used in association with the advanced count line logic to provide additional information outputs. The lines may be user-configured in a number of ways.		
User configurable	The count lines are user configured by a drag and drop mechanism. Both line position and shape may be modified.		
Count Direction	People are counted when they cross the count lines. Different 'count modes' are available (see below). The direction of line crossing which increments the count is user selectable.		
Count Modes	Various count modes are available, including: a. Count increment when person crosses line b. Count increment when person leaves the field of view c. Ignore or register U-turns d. Count every line crossing or only the first line crossing.		



Gazelle 2

Gazelle DualView & IP - Technical Specification continued

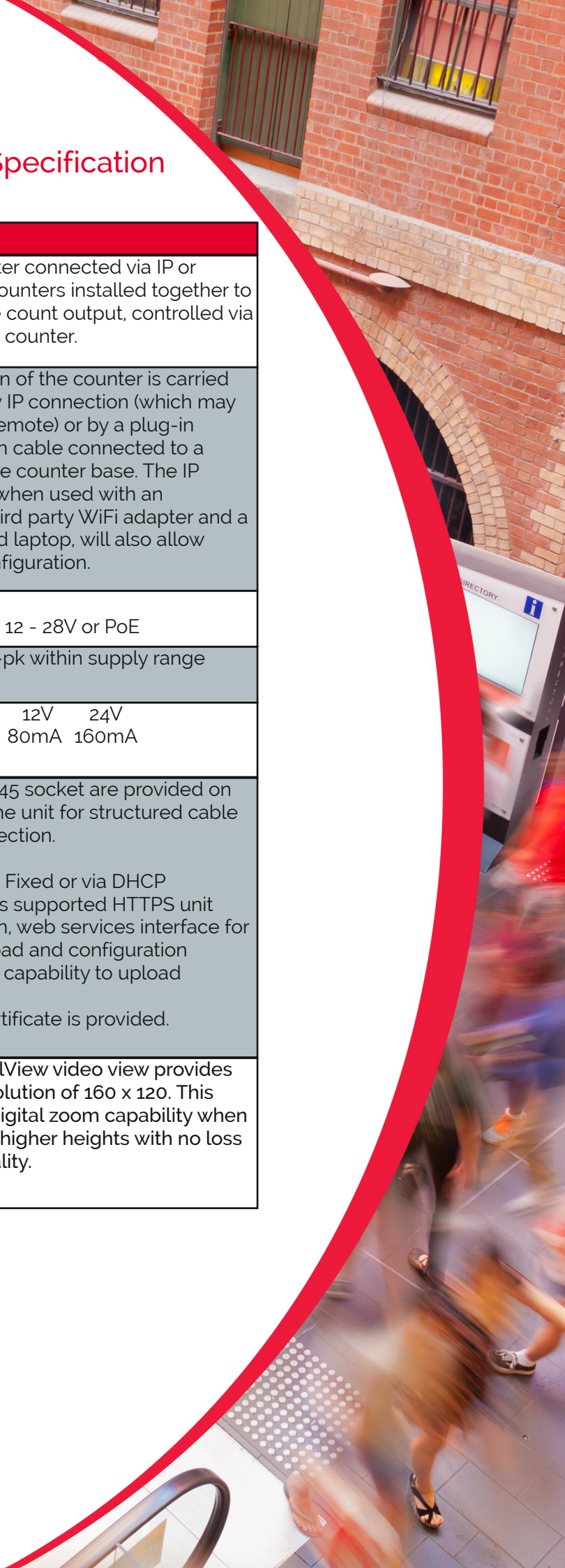
Technical Specifications Continued...	
Advanced Count Line Logic	Embedded within all Gazelle devices is the ability to use multiple count lines to extract more detailed information about people's movements within the field of view of the counter. Using logic such as Sequential, Summation and Alternative, it is possible to get advanced analytical information for a variety of applications e.g. using sequential line logic; a new register can be created that will only increment when a person crosses two count lines in a predetermined order. Such an application is useful in determining the flow of people in different directions from an entrance, for example.
Placement Restrictions	The user is free to place and adjust the count lines, providing that a certain amount of initialisation space is allowed between the edge of the counters field of view and the count line. This is dependent on the height of the counter and other factors - see IPU 40503 Applications Notes.
Wide Opening Networks	Often essential for use in shopping mall installations and transport hubs and beneficial in retail installations, the Gazelle series ability to be used in a Wide Opening Network configuration can be highly advantageous. In a wide opening situation up to 8 people counters can be linked together and configured as a single unit with a wide footprint. People moving between the fields of view of each counter will be tracked. Count lines can be configured in a variety of formats. A single pair of count lines can be implemented across all 8 units or alternatively, several pairs of count lines can be placed at any point in the extended field of view.
Certifications	Gazelle is certified Class A approved. Irisys are registered with Bluetooth SIG and are iBeacon licensed.



Gazelle 2

Gazelle DualView & IP - Technical Specification continued

Technical Specifications Continued...	
Counter System Implementations	Single counter connected via IP or a group of counters installed together to give a single count output, controlled via an IP master counter.
Configuration	Configuration of the counter is carried out either by IP connection (which may be local or remote) or by a plug-in configuration cable connected to a socket on the counter base. The IP connection when used with an additional third party WiFi adapter and a WiFi enabled laptop, will also allow wireless configuration.
Power Supply Requirements	
Supply Voltage:	12 - 28V or PoE
Ripple	<2Vpk-pk within supply range
Typical supply current	12V 24V 80mA 160mA
IP Interface Specification	Standard RJ45 socket are provided on the rear of the unit for structured cable (CAT5) connection. <ul style="list-style-type: none"> - IPv4 - IP address: Fixed or via DHCP - IP protocols supported HTTPS unit configuration, web services interface for data download and configuration - Certificate: capability to upload customer supplied certificate is provided.
Video	Gazelle DualView video view provides 12fps at resolution of 160 x 120. This provides a digital zoom capability when mounted at higher heights with no loss of video quality.



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Gazelle DualView & IP - Technical Specification continued

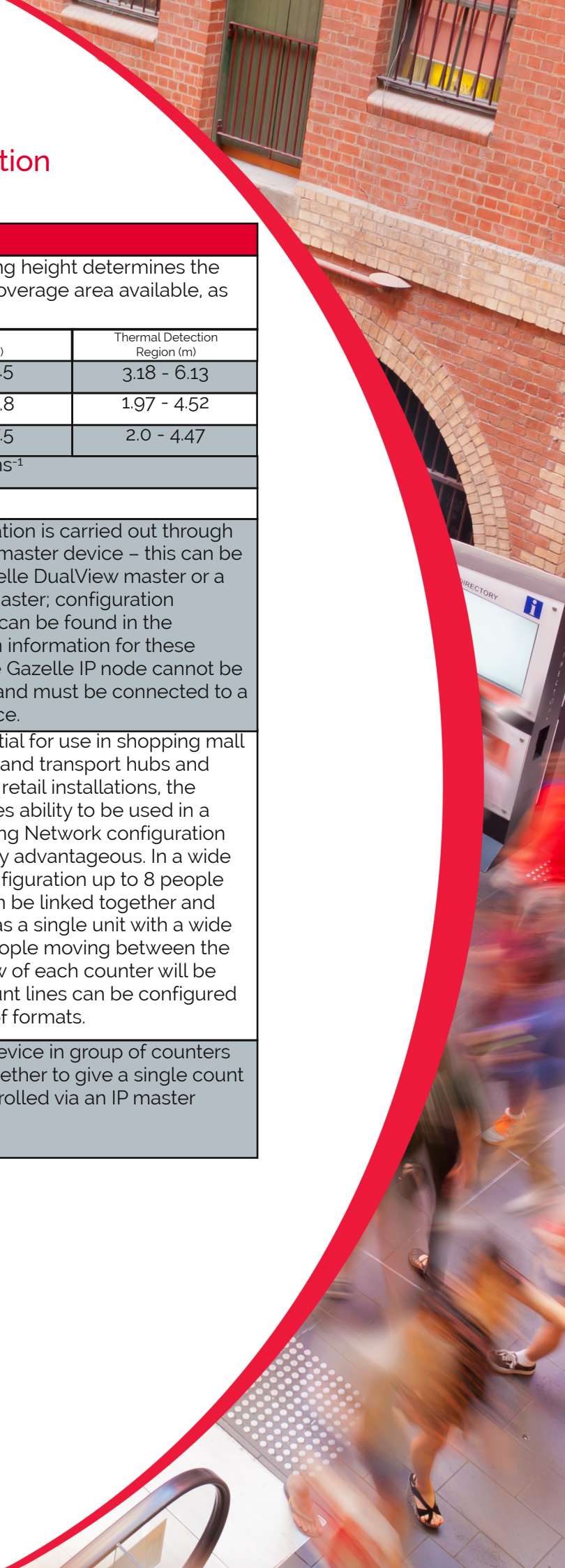
Technical Specifications Continued...	
Mechanical:	
Housing material	White or Black PC-ABS
Dimensions	190mm x 111mm x 36mm deep
Weight	0.3kg
Bulkhead mounting options	A variety of fixing holes in ceiling
Recess mounting options	Four fixing holes in ceiling mounting
Limitations to use	Users are requested to observe the following guidelines: - Safety critical use: The Gazelle series is not intended for use in any safety critical or personal safety application. *See Irisys publication IPU 40503 Applications Notes for guidance.
Environment	The counters are intended for use in indoor environments, free from rapid changes in temperature or humidity.
Operating Temperature	0°C to + 40°C (non-condensing).
Storage Temperature	-10°C to + 50°C.
Bluetooth Functionality	Bluetooth 4.0 compliant supports Bluetooth Smart and Classic modes simultaneously provides wireless configuration iBeacon technology. Configurable transmit power -20dBm to +8dBm Bluetooth MAC address harvesting, anonymised using cryptographic hash function.



Gazelle 2

Gazelle Node - Technical Specification

Technical Specifications		
Coverage pattern	The mounting height determines the maximum coverage area available, as seen below.	
Height Options	Height Range (m)	Thermal Detection Region (m)
90° Field of view	2.5 - 4.5	3.18 - 6.13
60° Field of view	2.2 - 4.8	1.97 - 4.52
40° Field of view	3.5 - 7.5	2.0 - 4.47
Detection Speed Range	0.5ms ⁻¹ – 3ms ⁻¹	
Temperature Sensitivity	< 2.0K	
Configuration	All configuration is carried out through the Gazelle master device – this can be either a Gazelle DualView master or a Gazelle IP master; configuration instructions can be found in the specification information for these devices. The Gazelle IP node cannot be used alone and must be connected to a master device.	
Wide Opening Networks	Often essential for use in shopping mall installations and transport hubs and beneficial in retail installations, the Gazelle series ability to be used in a Wide Opening Network configuration can be highly advantageous. In a wide opening configuration up to 8 people counters can be linked together and configured as a single unit with a wide footprint. People moving between the fields of view of each counter will be tracked. Count lines can be configured in a variety of formats.	
Counter System Implementations	As a node device in group of counters installed together to give a single count output, controlled via an IP master counter.	



Gazelle 2

Gazelle Node - Technical Specification

continued

Technical Specifications Continued...	
Counter system Implementations	As a node device in group of counters installed together to give a single count output, controlled via an IP master counter.
Power Supply Requirements	
Supply Voltage:	12 - 28V or PoE
Ripple	<2Vpk-pk within supply range
Typical supply current	12V 24V 80mA 160mA
IP Interface specification	Standard RJ45 socket are provided on the rear of the unit for structured cable (CAT5)
Mechanical:	
Housing material	White or Black PC-ABS
Dimensions	190mm x 111mm x 36mm deep
Weight	0.3kg
Bulkhead mounting options	A variety of fixing holes in ceiling
Recess mounting options	Four fixing holes in ceiling mounting
Limitations to use	Users are requested to observe the following guidelines: Safety critical use: The Gazelle series is not intended for use in any safety critical or personal safety application. *See Irisys publication IPU 40503 Applications Notes for guidance on the use and application of the Gazelle series detectors.
Environment	The counters are intended for use in indoor environments, free from rapid changes in temperature or humidity.
Operating Temperature	0°C to + 40°C (non-condensing).
Storage Temperature	-10°C to + 50°C.





InfraRed Integrated Systems Limited
Park Circle, Tithe Barn Way, Swan
Valley, Northampton, NN4 9BG
United Kingdom
T +44 (0)1604 594 200
F +44 (0)1604 594 210
E sales@irisys.co.uk
www.irisys.net

IRISYS Americas
One Glenlake, Parkway, Suite 700
Atlanta, GA 30328
USA
T +1 678 638 6248
E sales@irisys.co.uk
www.irisys.net