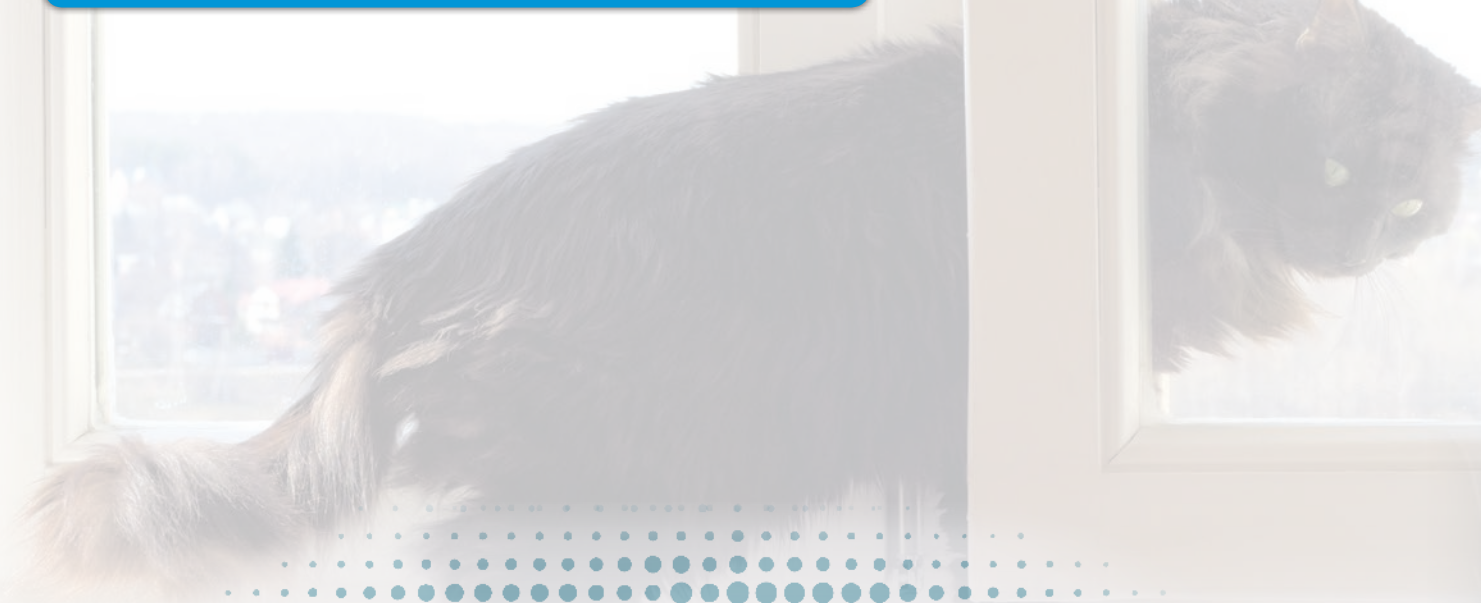




SWIFTER ALARM RESPONSE, FEWER FALSE
ALARMS AND MORE SATISFIED CUSTOMERS

**Visual alarm confirmation through
your intruder security system**



Fed up with **false alarms?**

Dealing with false alarms is frustrating for both you and your customers. False alarms lead to inconvenience for business and home owners and cost installers and Alarm Receiving Centres (ARCs) time and money.

False alarm facts

- Over 90% of all alarm activations across Europe are false
- Every guard or key holder intervention call outs means increased costs for both end user and ARC
- Multiple false alarms per annum result in penalties and downgrading of system response
- Installer's reputation and perceived system reliability can be damaged in the eyes of the end user



A woman in a business suit is meditating in a conference room. She is sitting cross-legged on a white conference table, with her eyes closed and hands resting on her knees in a mudra. The room has large windows in the background and several white chairs around the table.

Let **visual alarm verification** eliminate false alarm headaches



So what is it?

Visual verification uses images to assist in confirming whether a triggered alarm is genuine or false. PIR motion sensors with built-in cameras capture images with the same or wider angle than the PIR to be “sure” that the cause of the alarm is captured in the images aligned with the timeline of the action that has triggered an alarm event. It then transmits a series of images to the ARC to enable the alarm source and cause to be verified by the ARC operator.

Cut out the cost and inconvenience of interventions relating to false alarms.

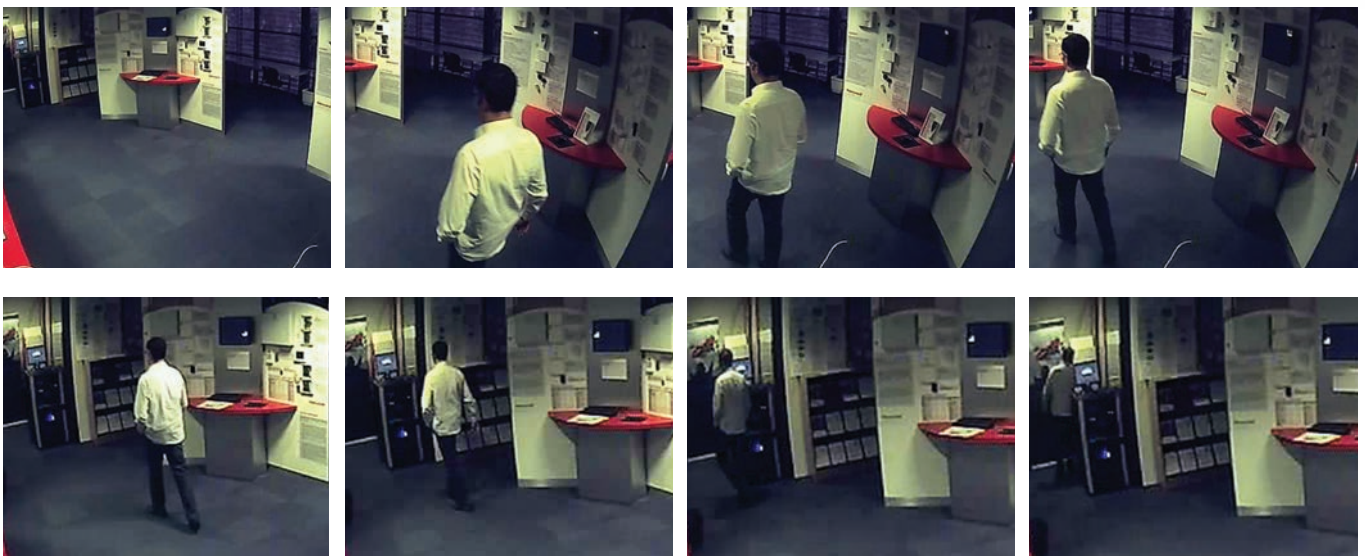
Why consider it?

Visual verification is easier, quicker and more reliable than current alarm verification methods such as sequential, audio and personal verification.

Since many alarms are triggered by harmless events such as doors left ajar, windows left open, animals shut in or often user error, being able to visually identify the source of the alarm enables ARC operators to quickly and easily distinguish between false and genuine alarms. This saves time, resources and false alarm related penalties and inconvenience for you and your customers and speeds up reaction to real alarms.

Visual verification is also a far more effective method of confirming Hold-up alarms when, in a real situation, triggering the two activations required for sequential alarm confirmation is unlikely.

Why choose **image sequence** verification?



Convenient & Cost effective

With regulatory bodies moving towards verified alarms, security installers need to consider effective verification solutions that are simple and affordable for their customers.

For small businesses and home owners, a full CCTV system can be too expensive an investment whereas if an installer can provide this extra level of security as part of the intruder alarm system, it becomes an extremely viable solution for customers.





Honeywell Galaxy[®] Flex alarm verification by image sequence

The Galaxy Flex intruder alarm system is designed for small to medium sized businesses and residential homes and integrates visual alarm verification using Passive Infrared Detectors (PIRs) with built-in cameras to capture still images pre- and post-alarm trigger.




Images are swiftly sent to your Alarm Receiving Centre where they are viewed by an operator who can compare the pre-alarm images with the post-alarm images to easily confirm and initiate an appropriate response to the alarm.

Business and home owners putting their trust in Galaxy Flex are assured the peace of mind that their alarm is monitored by professionals who will take action and eliminate the inconvenience of false alarms on their properties.

The camera PIR only captures images when an alarm is activated by configured system activity which ensures that privacy is respected, particularly for residential systems.





How can you and your customers **benefit?**



- Visual verification is the most effective method of confirming an alarm. Faster response minimises losses in genuine robbery situations
- Reduce inconvenience and penalties associated with false alarms
- Safer all round, putting alarm response in the hands of professionals
- Less time spent reacting to false alarms means that police resources are freed up to react immediately to genuine alarms
- Fewer losses and less damage and potentially lower insurance premiums
- Lower crime rates by enabling more prosecutions
- Swifter insurance settlements with visual crime evidence
- Creates peace of mind for the end user

Extra benefits of Galaxy Flex visual verification



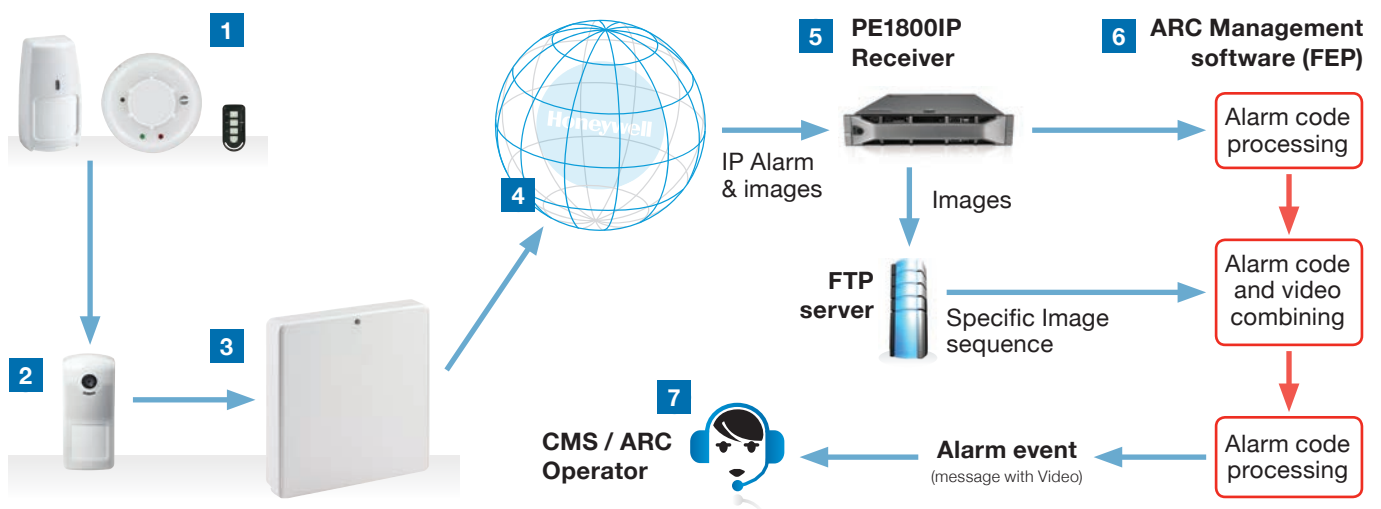
- Enhanced fire and flood prevention using Honeywell camera PIRs to trigger on smoke, flood and other sensor alarms
- Privacy protected especially in the home as the sensors capture images only when an alarm is triggered
- For Hold-up alarms, Galaxy Flex offers a new cost-effective way to visually confirm and initiate swift action to potentially life-threatening situations

Galaxy Flex visual verification essentials

What you need



How does it work?



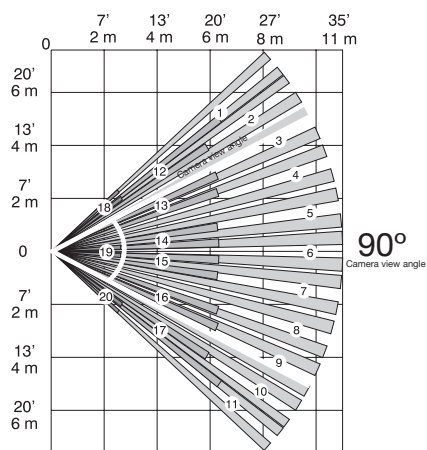
- 1 Sensor triggered
- 2 Camera PIR activated
- 3 Images sent to control panel
- 4 Using GPRS/Ethernet images are transmitted to the PE1800IP receiver panel
- 5 PE1800IP Receiver
- 6 ARC management software receives alarm signal and images
- 7 Trained ARC operator confirms alarm source initiates appropriate response

- Each ISN3010B4 Camera PIR can record up to 100 images at 640 x 352 pixels
- Up to 35 images per sequence with 10 image pre-alarm memory
- Up to 5 ISN3010B4 Camera PIRs can be installed per Flex system
- Images received by the Honeywell PE1800IP alarm receiver

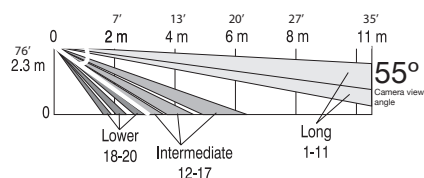


ISN3010B4 detection patterns and camera angles:

- Top View

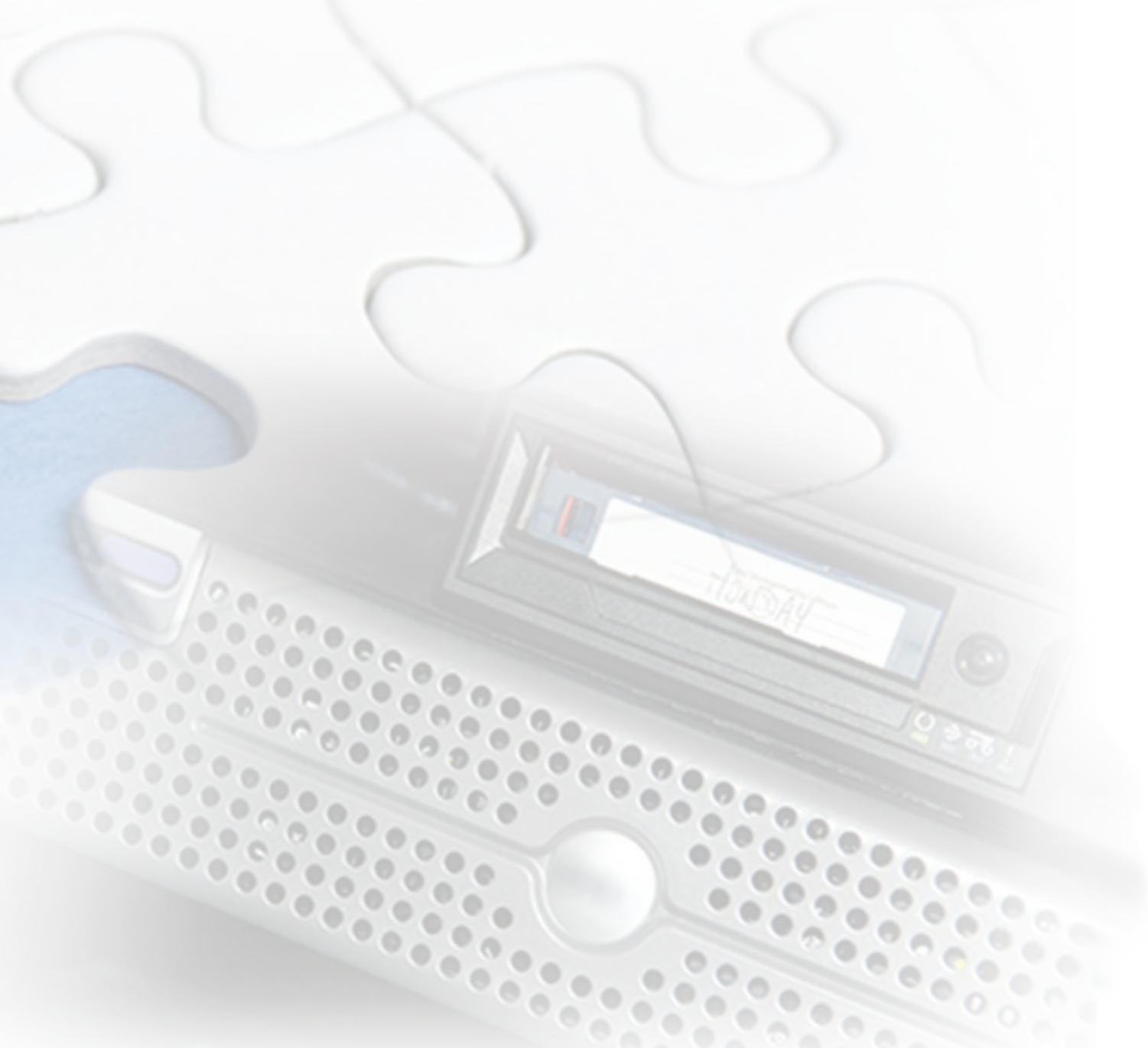


- Side View



Component specifications

| Specifications | | ISN3010B4 | | |
|----------------------|---|---|-------------------------------|------------------------------|
| PIR | Range | 11 x 12 m | | |
| | Sensitivity | Lowest, low, medium, high | | |
| | Temp compensation | Dual slope | | |
| | Pet Immunity | 0, 18, 36kg settings | | |
| | Installation height | 2.30m to 2.70m | | |
| | PIR detection field | Pyroelectric dual element | | |
| | Pet Immune Lens | 44 long range, 36 intermediate, 18 lower | | |
| | White light immunity | 6,500 lux (min) | | |
| Camera | Horizontal Angle | 90 | | |
| | Image size | 640 x 352 pixels | | |
| | No. of images | Up to 100 | | |
| | Colour setting | Black & White or Colour (using black and white setting enables faster transmission) | | |
| | Night Vision | Yes (Infrared LEDs) | | |
| | Set by Panel | Yes Pre-alarm images stored | | |
| | Image capture on alarm trigger | Yes Pre-alarm images stored | | |
| | Image capture on demand | Yes | | |
| Power | Operating input voltage | 8.2V DC min – 15V DC max | | |
| | Current consumption | Input voltage | Image capture ON/ IR LEDs OFF | Image capture ON/ IR LEDs ON |
| | | 8.2V DC | 140mA | 250mA |
| | | 12V DC | 90mA | 200mA |
| 15V DC | 70mA | 180mA | | |
| Compatibility | Galaxy Flex version | V3.0 and above | | |
| Mechanics | Tamper | Wall - forcible removal Cover - opening | | |
| | Connection | Wired Intellibus | | |
| | Dimensions (h x w x d) | 145 x 64 x 65mm | | |
| | Operating Temperature | - 10°C to + 55°C | | |
| | Weight | 220g | | |
| Approvals | EN50131-2-2 Grade 2; Environmental Class II. Certified NF&A2P according to C48433 Type 2 | | | |



| Description | PE IP Image Receiver | PE1800XS Alarm Receiver | PE1800IP Alarm Receiver |
|--|--------------------------------------|--|-----------------------------------|
| Image Receive, view and store | ✓ | ✓ | ✓ |
| Audio | | Two-way audio | |
| Digital Protocols | ✓ | ✓ | ✓ |
| Analogue Protocols | | All major protocols including SECOM 3, contact ID, CESA, SURTEC, STRATEL, SIA3 | |
| TCP/IP | Secom3, SIA3 | Secom3, SIA3 | Secom3, SIA3 |
| ISDN | | ✓ | ✓ |
| Server Based | ✓ | ✓ | ✓ |
| DSP Processing | | ✓ | ✓ |
| Caller ID, Calling Name, DNIS Recognition | | ✓ | ✓ |
| Software Interface | Image Viewer | Configuration Management Software | Configuration Management Software |
| IST Compatible | | ✓ | ✓ |
| Maintenance and Training | ✓ | ✓ | ✓ |
| Compatible control panels | Domonial Upgradeable for Galaxy Flex | Domonial Upgradeable for Galaxy Flex | Domonial Galaxy Flex |

Please contact your local Honeywell sales support team for information on how to upgrade your existing PE solution for compatibility with Galaxy Flex.

Frequently Asked Questions

Q: How many camera PIRs can I add to my Galaxy Flex system?

A: You can add up to 5 cameras onto the Flex system regardless of which Flex panel you are installing

Q: Can I use the existing PE alarm receiver that I have for Domonial for Galaxy Flex?

A: Yes, however the receiver will have to be updated - please contact us to arrange this

Q: Is the Flex system compatible with receivers other than those in the Honeywell PE series?

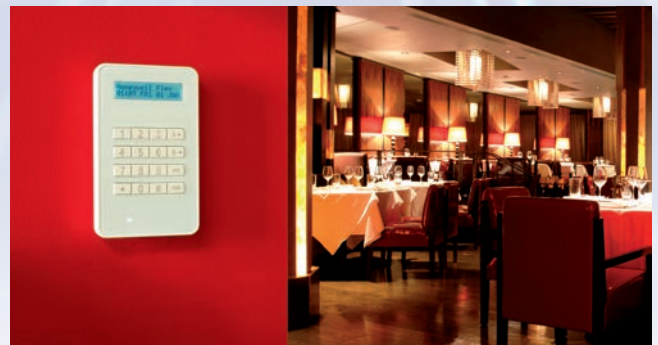
A: Yes, please contact your sales representative to get more details as this differs by country. Please note that the PE is required in order to receive images

Q: Are the images in colour or black and white

A: Both are possible

Q: Does image verification count as one confirmation within sequential verification requirements?

A: Visual verification is an alternative or complimentary to sequential verification



Ordering References

Control Panels & Kits

| | |
|---------------------|---|
| C005-M-E2 | Galaxy Flex FX020 |
| C006-M-E2 | Galaxy Flex FX050 |
| C007-M-E2 | Galaxy Flex FX100 |
| C005-E2-K01 | Flex 20 Panel 10Ah Box + Mk7 Keypad |
| C005-E2-K01G | Flex 20 Panel 10Ah Box + Mk7 Keypad + GPRS |
| C005-E2-K02 | Flex 20 Panel 10Ah Box + Mk7 Keyprox |
| C005-E2-K02G | Flex 20 Panel 10Ah Box + Mk7 Keyprox + GPRS |
| C005-E2-K03 | Flex 20 Panel 10Ah Box + Mk8 Keypad |
| C005-E2-K04 | Flex 20 Panel 10Ah Box + Mk8 Keyprox |
| C006-E2-K03 | Flex 50 Panel 10Ah Box + Mk8 Keypad |
| C006-E2-K04 | Flex 50 Panel 10Ah Box + Mk8 Keyprox |
| C005-E1-K03I | Flex 20 panel 10Ah Box + MK8 Keypad + Ethernet module |

Alarm Verification by Image Sequence

| | |
|------------------|----------------------------------|
| ISN3010B4 | Camera PIR sensor |
| PE1800IP | Alarm receiver over IP network |
| PE1800XS | Alarm receiver over ISDN network |



For additional information:
please visit: www.galaxyflex.com

Honeywell Security Group
Newhouse Industrial Estate
Motherwell
Lanarkshire
ML1 5SB
Scotland
Tel: +44 (0) 844 8000 235
www.honeywell.com



HSC-FlexW-02-EN(0513)SB-C
May 2013
© 2013 Honeywell International Inc.

Honeywell