



IBP ROBBERY-CONTROL SYSTEMS

www.ibp-group.com

raid-cam™

product profile



IBP-Group Ltd

Osprey House, 51a Lion Lane, Haslemere, GU27 1JF
Telephone - 01428 641399 Fax - 01428 642235
Email - info@ibp-group.com



raid-cam™

- Covert Passive InfraRed detector (PIR) enclosure
- PIR or Video Motion Detection (VMD) triggered to prevent wasted images
- Optional Panic Alarm (PA) stops recording 3 minutes after the raid
- Forgives late PA activation
- Records up to 10 frames per second
- Standard resolution settings allow a single 1 Gb card to contain over 100,000 recorded images - a total of 128 continuous hours at 1 frame per second
- Memory cards of 2GB also available allowing in excess of 200,000 images to be stored on a single card
- Evidence trail meets police evidence procedures
- Check-sum algorithm detects any image tamper
- Ideal for retailers, commercial chains and financial institutions
- Effective, lower cost replacement for existing 35mm cameras
- Can be used as a 'plug and play' system using a mains adapter and a IR remote
- Also available as Standard Colour, Black & White or Low Light Black & White

raid-cam™



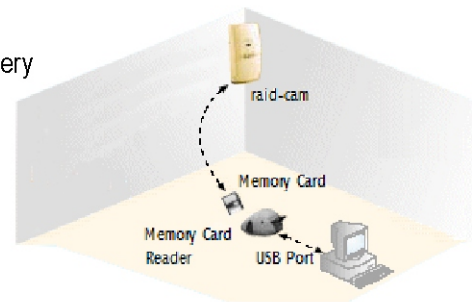
raid-cam™ a complete, stand-alone, digital camera and digital recorder, configured to capture police evidence in the event of a robbery. It is a high performance colour megapixel camera with automatic digital recording contained in a single Passive InfraRed detector (PIR) enclosure.

The **raid-cam™** system includes a 1.2 Megapixel CMOS Colour camera, a video compression engine, a removable Memory Card, PIR detector and optional Video Motion Detection (VMD). Installed by a customer exit in retail premises, it automatically records all movements detected by its PIR. The recording is stopped between 0 and 180 seconds after an external normally closed PA alarm is pressed. With a minimum of 5 hours recording, users can activate their PA either during or shortly after the raid to ensure evidential images are not overwritten.

A tamper-evident police evidence trail pack is supplied with each camera. To analyse the recorded events, the memory card can be removed from the **raid-cam™** unit and images downloaded to any PC or Pocket PC which has the relevant software installed, using a standard Memory Card Reader.

Main Features

- Stand-alone integrated digital camera packaged in a covert enclosure
- Colour high resolution camera configured to capture police evidence in the event of a robbery
- Automatic recording of all entries and exits
- External PA stops recording onto Memory Card
- 'Stop Recording' time delay 0 – 180 seconds
- Standard 1 Gb memory card can contain up to 100,000 recorded images on a single card. 2 Gb card can contain over 200,000 images
- Simple menu-driven set-up by customer or installation engineer using the Memory Card
- User defined image quality, frame rate, recording time per event, and delay between frames
- Infra-red Remote Control to re-arm unit using re-arm code (which can be held by security teams to prevent accidental overwriting of images)
- Optional Black and White versions work in low-light environments - 0.1 Lux or 0.003 Lux



Benefits

- Effective, low-cost, low maintenance replacement to 35mm cameras
- Tamper-evident police evidence pack complies with police evidence procedures
- Covert recording of burglary
- Easy to use PC software

Operation

Installed by a customer exit in retail premises, it automatically records all movements detected by its PIR. The recording is stopped between 0 and 120 seconds after an external normally closed PA alarm is pressed or with remote control. With a minimum of 5 hours recording, users can activate their PA either during or shortly after the raid to ensure capture of police evidence. Raid-cam™ can also be used as a 'plug and play' system with a mains adapter and an IR remote.

Distraction Burglary

Please call IBP-Group for further details.

Additional Features

- TV/Video output for external monitor
- Records up to 10 frames per second
- 5 selectable levels of recording quality
- Reliable and robust device not requiring day-to-day user intervention or maintenance
- User defined image quality, frame rate, recording time per event, delay between frames, cyclic recording and more
- Can be connected to control panel to enable synchronized arm/disarm of the unit
- Weekly Scheduler
- 2 relay output
- RS-485 connection

Maximum no. of Images / Recording Time in Hours

For each selected recording quality and installed memory size (on the basis of recording rate of 1 FPS (frame per second) and VMD (Video Motion Detection) activation 20% of recording time)

• At 1280 x 960 Resolution (Standard Raid-cam Unit)

| RECORDING QUALITY | MEMORY CARD SIZE | |
|-------------------|-------------------|-------------------|
| | 1 GB | 2 GB |
| Excellent (150K) | 3,300 / 5 hours | 6,600 / 10 hours |
| Very Good (90K) | 5,600 / 8 hours | 11,200 / 16 hours |
| Good (60K) | 8,400 / 12 hours | 16,800 / 24 hours |
| Standard (40K) | 12,800 / 16 hours | 25,600 / 32 hours |

• At 640 x 480 Resolution

| RECORDING QUALITY | MEMORY CARD SIZE | |
|-------------------|-------------------|-------------------|
| | 1 GB | 2 GB |
| Excellent (150K) | 6,400 / 8 hours | 12,800 / 16 hours |
| Very Good (90K) | 11,200 / 16 hours | 22,400 / 32 hours |
| Good (60K) | 16,000 / 24 hours | 32,000 / 48 hours |
| Standard (40K) | 25,600 / 32 hours | 51,200 / 64 hours |

• At 320 x 240 Resolution

| RECORDING QUALITY | MEMORY CARD SIZE | |
|-------------------|---------------------|---------------------|
| | 1 GB | 2 GB |
| Excellent (150K) | 25,600 / 32 hours | 51,200 / 64 hours |
| Very Good (90K) | 46,400 / 64 hours | 92,800 / 128 hours |
| Good (60K) | 67,200 / 96 hours | 134,400 / 192 hours |
| Standard (40K) | 102,400 / 128 hours | 204,800 / 384 hours |

| MODEL | RAID-CAM CCD COLOUR | RAID-CAM B/W (B OR BX) | RAID-CAM 1.2 MEGAPIXEL COLOUR |
|------------------------------|--|--|--|
| Camera type | CCD colour Pinhole lens, 4.3mm 0.5 Lux | CCD B/W Pinhole lens, 4.3mm B: 0.1 Lux BX: 0.003 Lux | 1.2 Megapixel CMOS Colour Mini lens, 6mm 1-V / Lux-sec |
| Video Format | NTSC or PAL | EIA or CCIR | Progressive |
| Video Input | Internal Camera | | |
| Video Output | Composite video 1 Vpp NTSC / PAL | | |
| Video Resolution | | | |
| 1280 x 960 (SXGA) | No | No | Yes |
| 640 x 480 (VGA) | Yes | Yes | Yes |
| 320 x 240 (CIF) | Yes | Yes | No |
| Recording Quality | 5 levels | | |
| Video Compression | JPEG | | |
| Video Motion Detection | Yes | | |
| Recording Rate | From 10 images / sec to 1 image / 5 min. | | |
| Image Size | From 10K to 120K | From 30K to 300K | |
| Storage Type | Removable mini SD Storage Card sizes | | |
| Recording Modes | Fixed - Records events until the mini SD card is full | | |
| | Cyclic - When the mini SD card is full the oldest images are overwritten | | |
| Recording Mode Triggers | External alarm | | |
| | Video Motion and / or PIR Detection | | |
| | Panic button using the IR remote control | | |
| Pre-Alarm Recording | Yes | | |
| Image Protection (Integrity) | Each image is differentially signed and can be authenticated | | |
| Titles | Time / Date / Unit Name | | |
| Scheduler | Daily & Weekly | | |
| Alarm Inputs | 3 Inputs | | |
| Arm / Disarm Input | Accept N.O or N.C alarm sensors; or OV as Low Level, +5 to +15Vdc as High Level | | |
| Alarm Output | N/C 28Vdc. 0.1A protected with a 20 Ohm resistor | | |
| Programmable Output | N/O 28Vdc. 0.1A protected with a 20 Ohm resistor | | |
| IR Remote Control | Used for: Arming and Disarming the unit Emergencies as a panic button | | |
| Security | Password protected | | |
| Internal PIR | Dual element, hard spherical lens. Angle 90° | | |
| Power Source | 12 VDC 300 mA | 12 VDC 270mA | 12 VDC 180mA |
| Power Consumption | < 3.3 W | < 3.2 W | < 2.2 W |
| Recovery | Automatic recovery after source power failure | | |
| Audio Indicator | Buzzer | | |
| Operation Status LED's | Two status colour LED's and one PIR LED indicators | | |
| RS-485 port | Yes | | |
| Software Upgradeable | Yes | | |
| External Dimensions | 137 x 65 x 49 mm / 5.4 x 2.5 x 1.9 in | | |
| Weight | 340 gm / 12 oz | | |
| Operating Temperature | 0° to 50° C / 32° to 122° F | | |

raid-cam™

Daily check

When stood within range of the **raid-cam™** PIR, ensure that the bottom LED is illuminated orange constantly, indicating the **raid-cam™** is in its armed state. Ensure that the middle LED is illuminated, flashing red and the top LED is illuminated blinking green, indicating that the PIR is detecting movement and that data is being recorded to the memory card.



Activation of raid-cam™

- **REMEMBER - raid-cam™** may be activated shortly after the raider has left
- As soon as it is safe to do so, push panic alarm button to store images of the raider
- **raid-cam™** will record events during the next 3 minutes
- For installations without a panic alarm button - stand in front of the camera and using the remote control, enter your pin-code followed by "DISARM", then wait until the unit is disarmed and begins beeping

Recovery of the Police Evidence

- Three minutes after the **raid-cam™** panic alarm is operated, **raid-cam™** emits an intermittent beep to indicate 'camera disarmed'.
- **Important. The raid-cam™ Memory Card should only be removed by the police in the presence of a witness, with the raid-cam™ Evidence Pack on hand.**
- Push the memory card in to release and place in Scene of Crime Evidence Bag following the instructions on the **raid-cam™** Evidence Pack.

To Re-arm raid-cam™

- **Your pin-code is required. (This is recorded on the "Spare Memory Card" sheet.)**
- Insert the spare Memory Card into the **raid-cam™** and then enter the pin-code followed by "ARM" whilst pointing the remote control at **raid-cam™**. The bottom orange LED will now illuminate indicating the **raid-cam™** is in its armed state. Shortly, the top LED will illuminate blinking green indicating that data is being recorded to the memory card.
- Call IBP-Group on 01428 641399, who will record the serial number of the spare Memory Card and can send you a new Evidence Pack and a Replacement Memory Card.

NB: Alteration or corruption of raid-cam™ Memory Card Image Data is detected by raid-cam™ software

Camera Operator Instructions
Immediately following the incident, in the presence of a reliable witness, remove the Memory Card from the base of the Raid-cam™ and immediately place it in the bag below, completing all parts of the left-hand section of this card. Do not complete the righthand section of this card.

Statement
This Memory Card was removed from the camera specified and directly inserted within this Scene of Crime Evidence Bag without being tampered or otherwise interfered with.
I identify the exhibit within the evidence bag (Ser.No. specified below) as that referred to in my statement.

Scene of Crime Evidence Bag

| | | | |
|--------------------------|--|------------------------------------|--|
| Sealed by: | | Witness: | |
| Last Name | | Last Name | |
| First Names | | First Names | |
| Title/Rank No. | | Title/Rank No. | |
| Signature | | Signature | |
| Address L.1 | | Taken by | |
| Address L.2 | | Address L.1 | |
| Address L.3 | | Address L.2 | |
| Address L.4 | | Address L.3 | |
| Postcode | | Address L.4 | |
| Notes | | Postcode | |
| Organisation | | Camera Details and Location | |
| Address L.1 | | Mem card Ser No. | |
| Address L.2 | | Cam. Ser. No. | |
| Address L.3 | | Bag Ser. No. | |
| Address L.4 | | Date & Time | |
| Postcode | | Card Removed | |
| Mem card Ser No. Sticker | | From Camera & Sealed | |

Instructions for Officer Making File copy
In the presence of a witness, remove the Memory Card from the Scene of Crime Evidence Bag and, using the Raid-cam™ Card Reader copy the files onto a personal computer following instructions supplied. Still in the presence of the witness, immediately place the Memory Card in the Court Evidence bag. Complete all parts of the right hand section of this card.

Statement
This Memory Card was removed from the Scene of Crime Evidence Bag specified, its data copied to a computer file and directly inserted within this Court Evidence bag without being tampered or interfered. The original data on the Memory Card has not been altered or otherwise tampered with.

Court Evidence Bag

| | | | |
|---|-----------|---|-----------|
| Officer: | | Witness: | |
| Last Name | | Last Name | |
| First Names | | First Names | |
| Rank & No. | | Rank & No. | |
| Signature | | Signature | |
| Date Removed from Scene of Crime Evidence Bag | | Date Removed from Scene of Crime Evidence Bag | |
| Time Removed from Scene of Crime Evidence Bag | | Date inserted in Court Evidence Bag | |
| Date inserted in Court Evidence Bag | | Time inserted in Court Evidence Bag | |
| Time inserted in Court Evidence Bag | | Court Evidence Bag Serv. No. | |
| Court Evidence Bag Serv. No. | | Organisation | |
| Organisation | | Address L.1 | |
| Address L.1 | | Address L.2 | |
| Address L.2 | | Address L.3 | |
| Address L.3 | | Address L.4 | |
| Address L.4 | | Postcode | |
| Postcode | | Location: | AS ABOVE* |
| Location: | AS ABOVE* | Location: | AS ABOVE* |

*delete as necessary

| | |
|-------------|--|
| Exhibit No. | |
| Other Ref. | |

All parts of the form MUST be completed
For assistance in completing this form, please call IBP -Group Ltd: 01428 641399
for advice on the prevention of robberies, see the IBP International web-site: www.ibp-group.com
IBP International is a ISO 9002 certified company and a member of the BSIA.



raid-cam™

How raid-cam™ works

raid-cam™ stores on a removable memory card 5 to 128 hrs of images recorded *prior to*, and 3 minutes recorded *following* activation of the PA.

raid-cam™ Image Storage and Retrieval

| | |
|--------------------|--|
| Storage medium | Removable mini SD Memory Card 1Gb or 2Gb |
| Memory card reader | Can be supplied free of charge by IBP to police forces Available from most major computer accessory suppliers |
| Picture format | JPEG with automatic Thumbnails Support. |

raid-cam™ Card Reader Software and PC Requirements

| | |
|--------------------|--|
| CPU | Pentium III 800Mhz or higher. |
| RAM | 512 Mb or higher. |
| Graphic adapter | Super VGA or higher |
| Display resolution | 640x480, 32000 colors or higher. . |
| Operating systems | Windows ME, 2000, NT, XP or VISTA with Internet Explorer 5.0 or higher |
| Card Reader | Mini SD compatible card reader |

Using the raid-cam™ Memory Card as Evidence

To release card from camera (typically situated above exit door), press the card in. It will protrude to enable it to be removed.



Using the **raid-cam™** Evidence Pack, in the presence of a witness, place the card in the Scene of Crime Bag. With the witness, complete and sign the left-hand section of the Evidence Pack Form.

Call IBP-Group 01428 641399, suppliers of **raid-cam™**, for assistance with obtaining software and card readers necessary to retrieve images from the mini SD card.

