uniQcam®
TECHNOLOGIES

THE SURVEILLANCE CENTRE

Magnetic Switch -

- Temperature Sensor

AC Switch -

- External PIR

Audio Alarm -

- RF Remote

Communication with wireless peripherals

Background

- UniQcam® Pte Ltd, a Singaporean Company, was founded in 2008 and is a subsidiary of TS Australia Pty Ltd founded in 1996 (as Toshiba Electronics Representative Office for the ANZ territory).

- TS AUSTRALIA (UniQcam®) is the Patent holder of "a surveillance and recording device" and owns the UNIQCAM IP and its w/w Trademark.

- TS AUSTRALIA / UNIQCAM are promoting and selling their standalone, battery operated and low power Surveillance Systems FALCON Pro, OWL Pro Series, uniQcam® wireless Peripherals and Sensors and the UNIQCAM®/MDC Dashboard Software.

- The camera boards are produced by our contract manufacturer in Singapore, and the units are assembled and configured at TS Australia in QLD Australia and at UNIQCAM Pte Ltd in Singapore.

- The Software development of the UNIQCAM® and Remote Monitoring underwent extensive field testing which was completed end 2017.

Not the usual IP Camera System

- The patented UNIQCAM® System is the latest in **low power, standalone** security camera technology. The battery and solar operated camera captures high quality photo, video & audio - sent directly to your mobile, email and monitoring station

- The UNIQCAM® is a **portable & integrated solution** suiting even the most unconventional surveillance needs. It does not require a network, wires or mains power nor a typical installation process. This makes it ideal for easy placement in remote areas. It also allows for integration with UNIQCAM® wireless peripherals.

- The UNIQCAM® comes with **easy self-monitoring software** allowing for **remote** customised camera set up and footage can be viewed via a dashboard for independent monitoring.


Owl Pro' with or w/o Solar
Monochrome Camera

Falcon Pro' or Pro-IR with or w/o Solar
Colour Camera

The Key Features of the UniQcam

- Data Storage (internal SD card)
- 3G/4G /WLAN Transmission of Still Images, Video Clips and Audio
- Photos & Videos transmission to e-mail or FTP Server
- JEPEG, MPEG, WAV Audio recording (with integrated MIC)
- Night Vision with internal invisible IR Spotlight (940nm)
- Photo/Video/Audio Capture by internal PIR or in Time-Lapse
- Image Sensor for low light operation (3.4V/Lux-Sec) and HDR
- Time / Date Stamp on Photos
- Encryption, Watermark / Digital Signature
- Integrated wireless switch (433MHz) operating on secure "hopping" code to control external uniQcam Sensors and Devices
- Suitable as a wireless Alarm and Home Automation System
- 7 wks standby / operation power with rechargeable batteries
- The optional integrated Solar Hood or external 10W Solar panel support ongoing activity
- IP66 weatherproof case with audio vents and air ventilation

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Configuration on Desktop, Smart-Phone or over UNIQCAM/MDC Web Portal

- The uniQcam® can be setup easily on the User Interface with the provided PC Software. The same can be done remotely via the UniQcam Dashboard www.camera-innovation.com
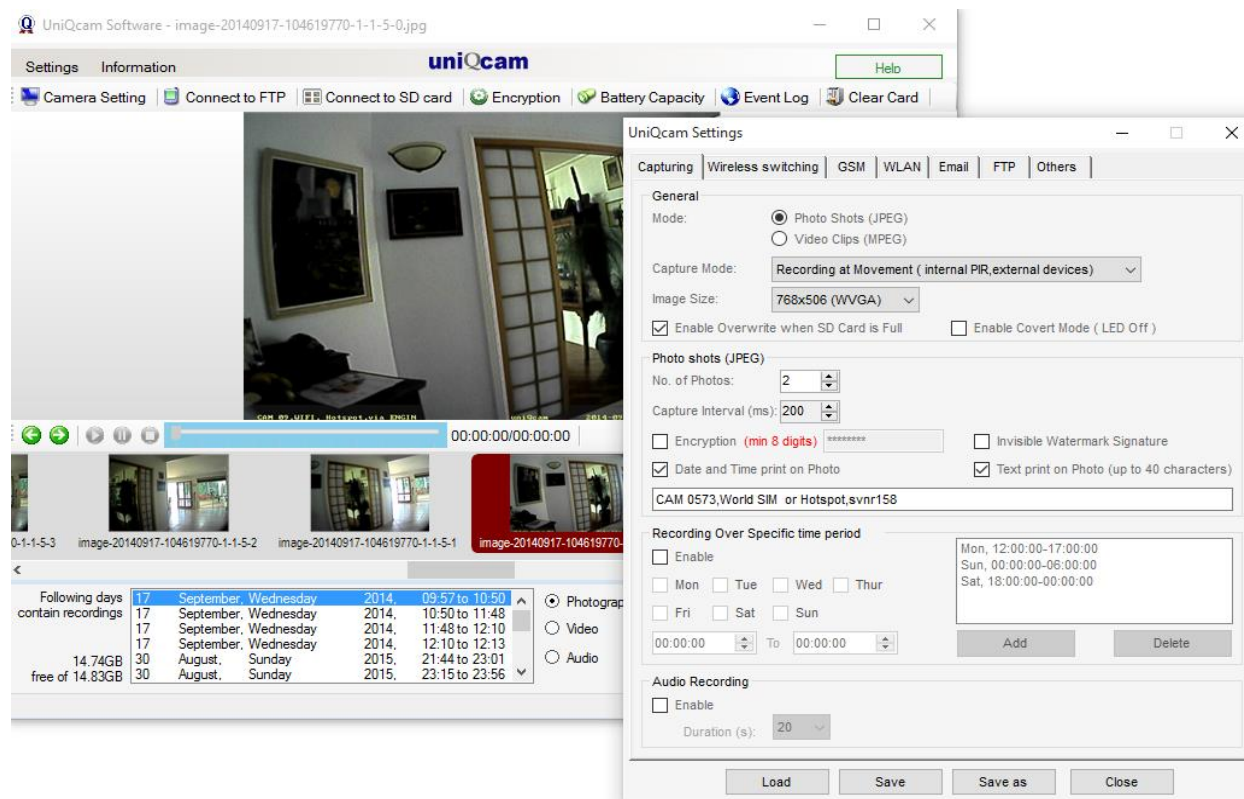
Remote Configuration

We offer a Monitoring Service with Cloud Storage to our clients where the captured footage of each camera is transmitted to PC and Smart phone in almost real time.

Cameras can be set up and updated remotely, so there is no requirement to unplug the internal SD card in order to change the camera configuration.

That means individual or groups of cameras are controlled remotely via 3G/4G /WLAN. Cameras can be configured easily on the remote Dashboard from your PC , Smart phone or Tablet.

UNIQCAM® / MDC Dashboard

| Central Viewing | Remote Configuration & Update |

Remote Monitoring of various Cameras in their Locations

UNIQCAM® / MDC Dashboard

Remote Configuration of Cameras via Dashboard

UniQcam® / MDC Dashboard:

All cameras at a certain location can be viewed on the Dashboard screen in almost real time.

Example:

Camera 4 – Video clip (10Sec)
Location: Swimming Pool

Camera 5 – Photo Shot of a car
Location: Driveway

Camera 1 – Photo Shot of Foyer
Location: Building entrance

All the footage here is
captured in "PIR Mode"
but cameras could also
operate in "Time Lapse Mode".

Click thumbnail to enlarge

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UNIQCAM® User Interface Settings

Remote Configuration
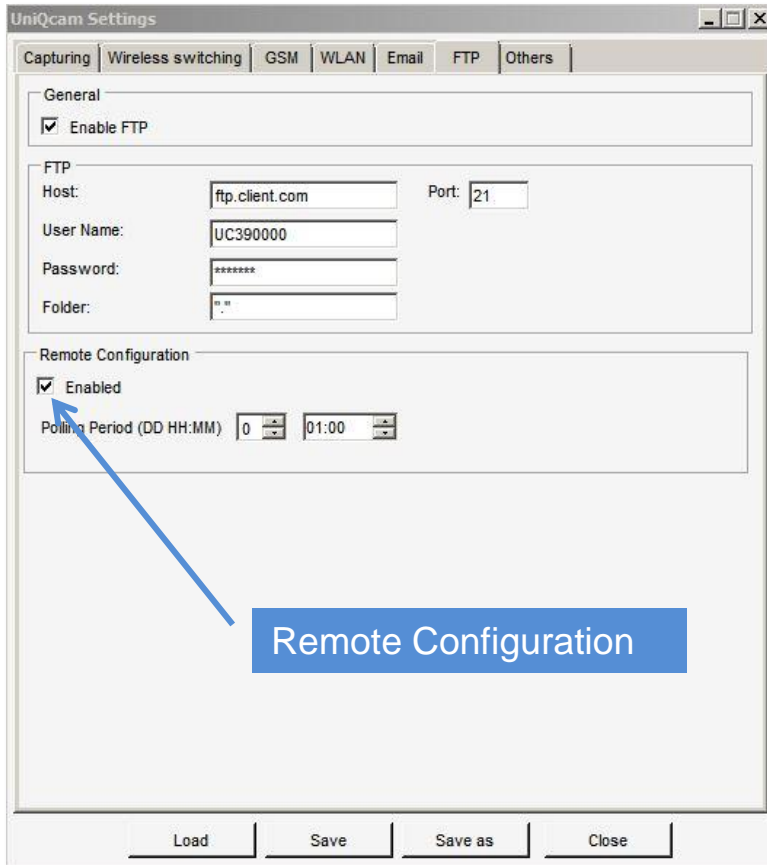
UNIQCAM® Applications

Construction Sites	Marine	Council, Government & Police	Airports & Hotels
The uniQcam® has been installed on building sites where in many cases there is no access to mains power, or where cameras needed to be frequently moved between locations.	The uniQcam®comes with a marine certified IP66 case. It's suitable for marine application (jetty, boats, ship yard) with it's wireless external devices and sensors – with easy installation no drilling or cables are required.	The uniQcam® can be applied to public areas for Government surveillance requirements – such as vandalism, fly tipping, hooliganism and terrorism.	Dead spot areas where network cameras are not installed or where established cameras should be monitored are ideal situations for the placement of a uniQcam®. Application such as baggage/cargo, areas and hotel storage rooms .

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UNIQCAM® Applications

Correctional Services	Farms & Remote Locations	Retail & Warehouse	Home
The uniQcam® can be used to support correctional services through monitoring non-patrolled areas. For drug trafficking control and other unlawful activities in the prison environment.	Perfect for remote locations with the inclusion of the Solar Panel, the uniQcam® is ideal for farms and livestock monitoring. In addition, the IP66 case is fine dust proof which makes it particularly applicable to Mines and areas that are prone to explosion risk - Gas & Oil tanks & Traffic areas.	Surveillance of shops (dead spots), stores, warehouses, parking areas, money counting rooms, also watch over established network cameras in distribution centres.	uniQcam® has been implemented in private households where the camera is used for Security, as an Alarm System and for multiple surveillance purposes (e.g. children's rooms, driveways, front and rear house entrance, garden areas etc.)

uniQcam® TECHNOLOGIES

UNIQCAM® Wireless Switching – RX/TX

RF LIGHT SWITCH (AC CONTROLLER)

RF WATER-LEVEL SENSOR

RF AUDIO ALARM

RF TEMPERATURE SENSOR

OUTDOOR RF SIREN WITH SOLAR

EXTERNAL RF -MOTION SENSOR (PIR)

RF REMOTE CONTROL
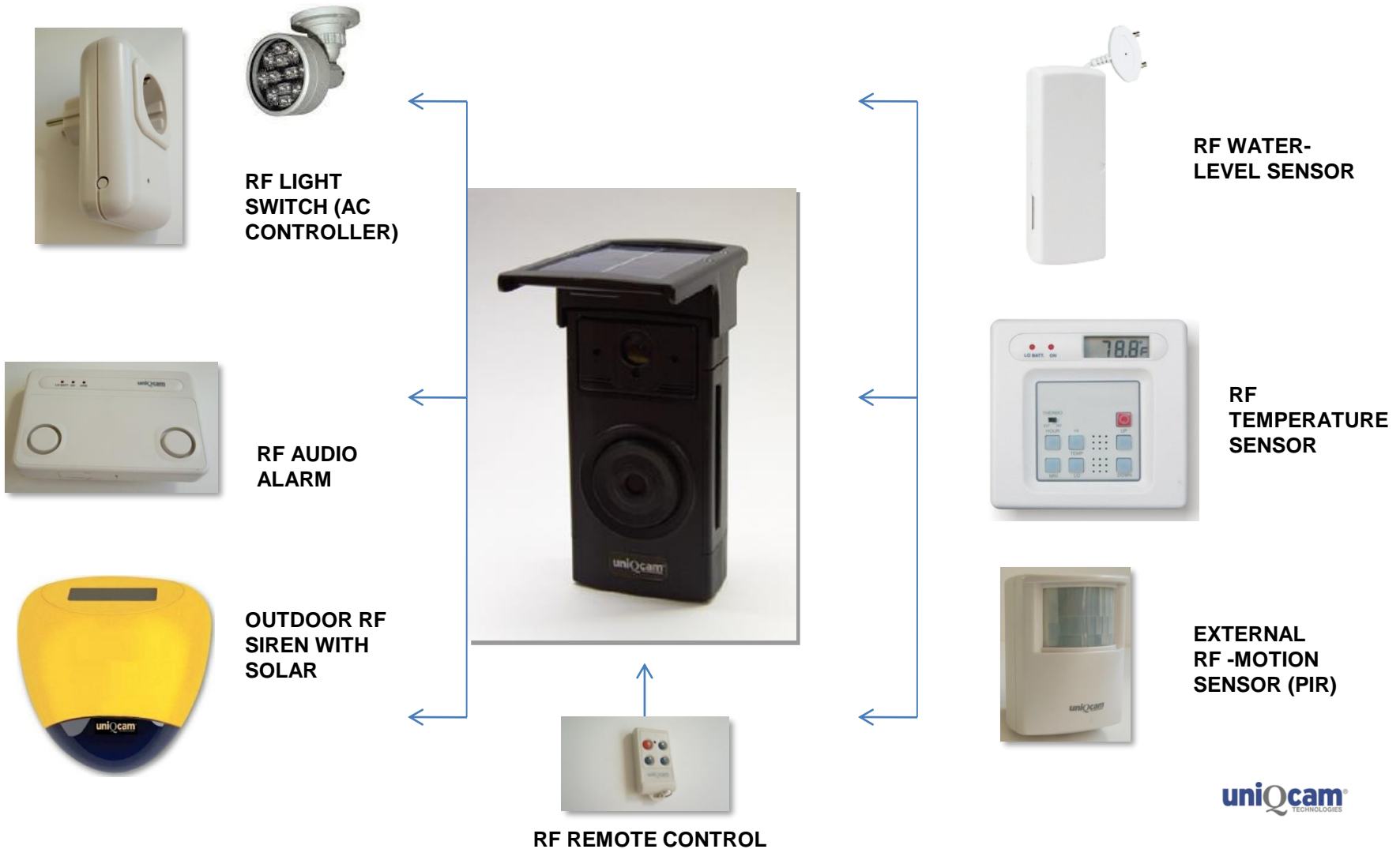
UNIQCAM® The Communication Centre

- The UNIQCAM® has an **integrated control centre** where UNIQCAM® external devices can be switched wirelessly in receiving and transmitting mode (Rx/Tx). E.g. UNIQCAM® Door Sensor (Peripheral IN) UNIQCAM® Alarm Panel or Light Switch (Peripheral OUT).
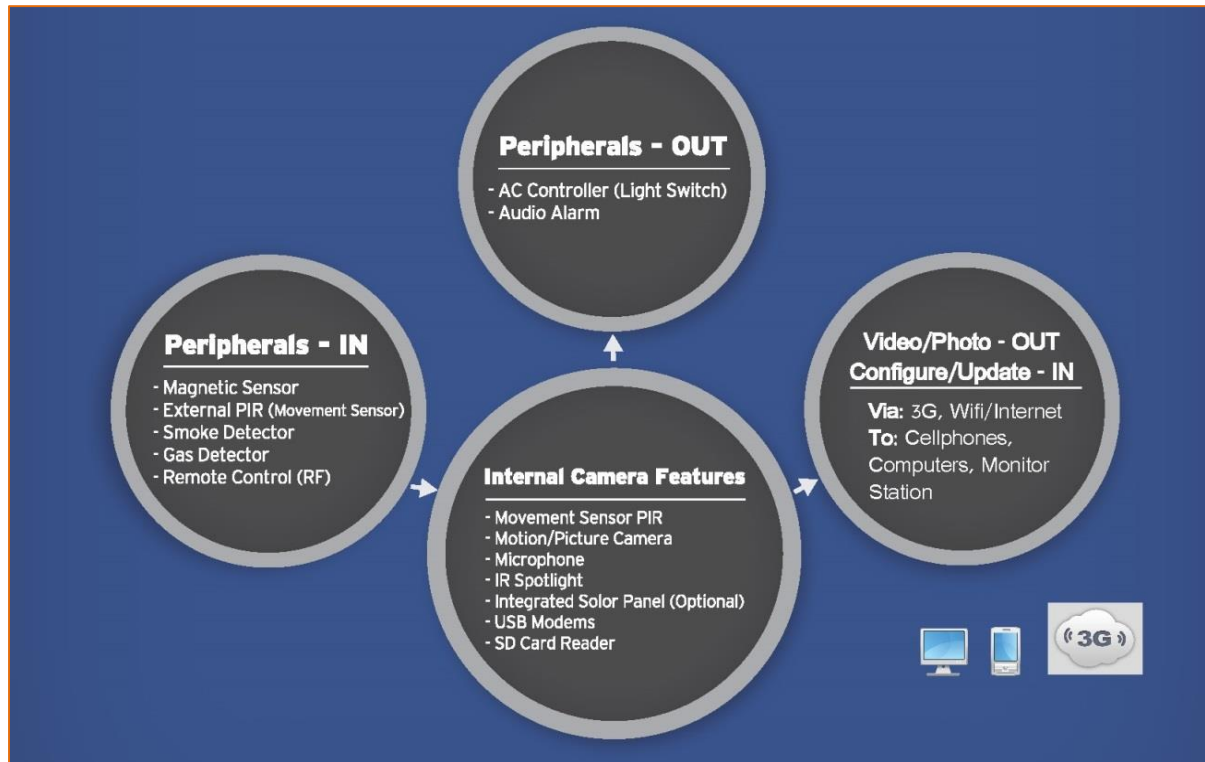
Example: 2 Cameras and 1 External PIR

Camera 2 (Receiver)

Ongoing Video Recording

External PIR

Activate

16m RF

16m pick up

16m RF

IR Spotlight Illumination

External IR SPOT LIGHT

16m RF

10m pick up

Camera 1 (Sender)
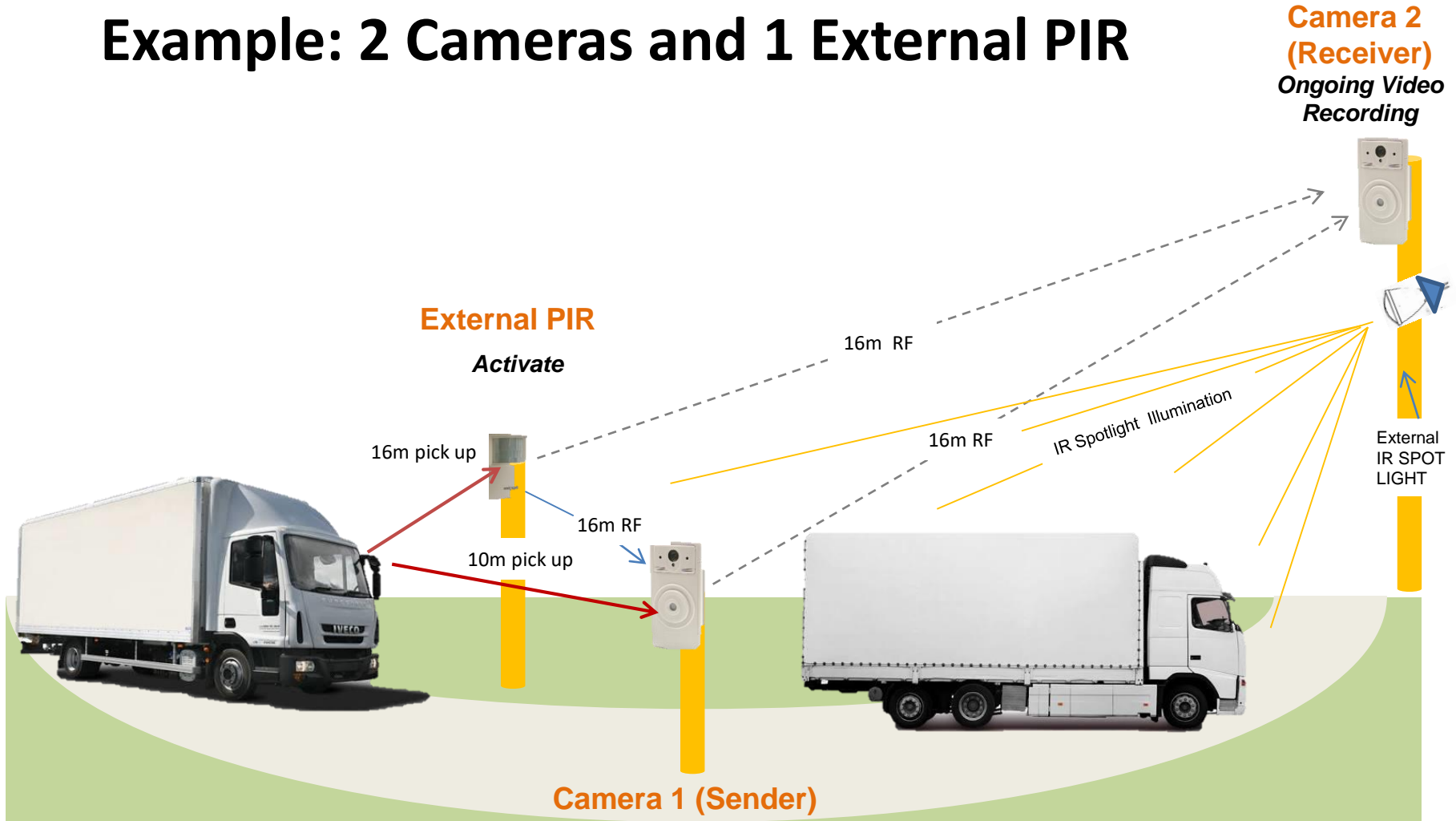
Activate, Capture & Send to email or UNIQCAM / MDC Dashboard

3/4G

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UNIQCAM® Cameras

Version 1A	Version 1B

No RF Module/ Optional 3G

No RF Module / 3G included

Model Variants:
GUARD DOG
(UC-C00-A-WA0-00)
GUARD DOG-IR
(UC-C90-A-WA0-00)
OWL-IR
(UC-M90-A-WA0-00)

Model Variants:
FALCON PRO
(UC-C00-A-WA0-G0)
FALCON PRO-IR
(UC-C90-A-WA0-G0)
OWL PRO-IR
(UC-M90-A-WA0-G0)

Camera	RF Module	3G	SD Card	Software	Accessories	Remote Control	Manuals	Options Case: Cream or Black	Wifi Modem	Solar Hood	Options: Sensors/Devices
Version 1A	X	Option	✔	✔	✔	X	✔	✔	Option	Option	X
Version 1B	X	✔	✔	✔	✔	X	✔	✔	Option	Option	X

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UNIQCAM® Cameras

Version 2

Complete with RF Module, 3G included

Model Variants:
FALCON PRO – CR
(UC-C00-CR-A-WA0-G0)
FALCON PRO-IR-CR
(UC-C90-CR-A-WA0-G0)
OWL PRO-IR-CR
(UC-M90-CR-A-WA0-G0)

Options:
• Case – Cream or Black / Solar Hood / Wifi Modem
• RF Peripherals: Audio Alarm, AC Controller (Light Switch), Door/Window Sensor, Water Level Sensor, Wristband Panic Button, Temperature Sensor, External PIR- outdoor (12m detection range), Outdoor Siren, Strobe with Solar panel, 4 button RF Remote Control (Arm, Disarm, Battery check, Photo-Shot/Panic Button).

Camera	RF Module	3G	SD Card	SoftWare	Accessories	Remote Control	Manuals	Options Case: Cream or Black	Wifi Modem	Solar Hood	Options: Sensors/Devices
Version 2	✓	✓	✓	✓	✓	✓	✓	✓	Option	Option	Option

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UNIQCAM® Cameras + Solar Bundles

Bundle with external SOLAR Rechargeable Sensor Spotlight – UC-SPEX-SPI

- LED 500 Lumens
- 180 degree adjustable hinge
- PIR with 180 degree swivel
- Rear mount
- Lighting mode settings / day & night settings
- Solar panel with bracket
- 6V Li-Ion battery
- Recommended for high traffic areas

In combination with following cameras:
FALCON PRO – CR (UC-C00-CR-A-WA0-G0)
OWL PRO- CR (UC-M90-CR-A-WA0-G0)

Bundle is designed to be cost effective with easy setup – customers can use their own PIR Spotlight.

In summary, camera battery will last longer with the integration of our larger external Solar Panel. Meaning more photos and videos can be captured, stored and transmitted.

Spot light Solar Panel

UNIQCAM-Solar Hood

Camera PIR

Spot light PIR

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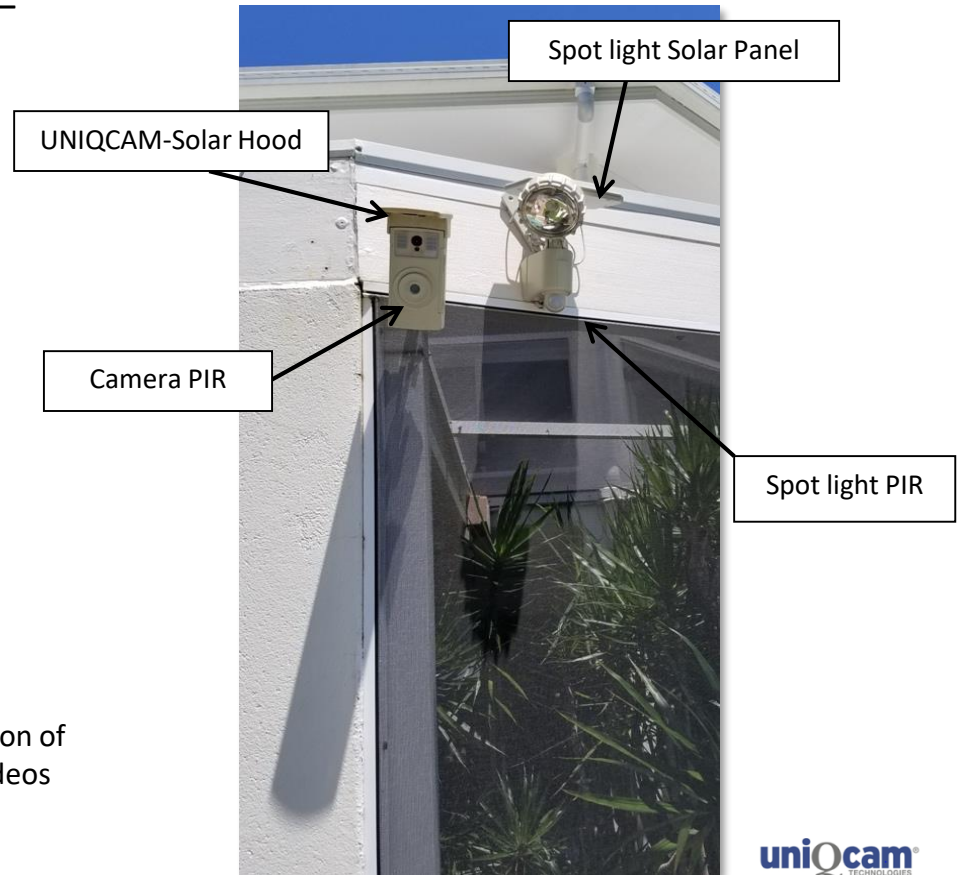
UNIQCAM® Cameras + Solar Bundles

Version 2 – Bundle B1

Camera with IR and RF- AC Controller (Light Switch) - 240V

Options/Additions:
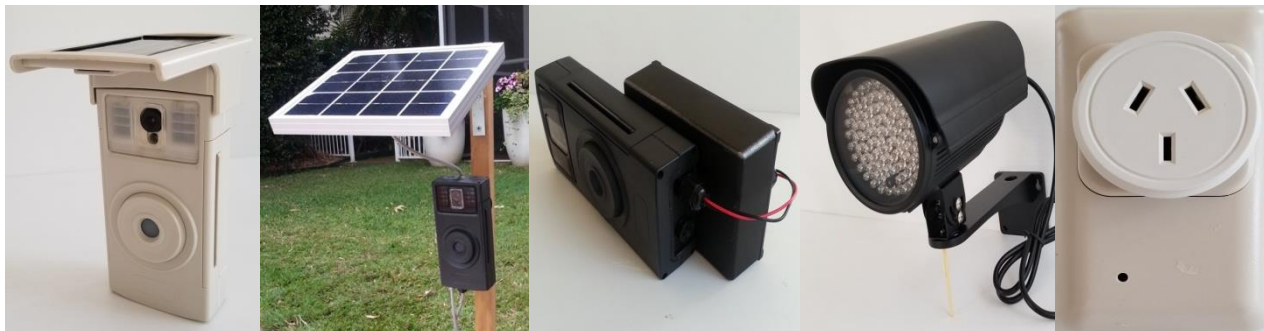
1. Attached Solar Hood (UC-SOLA-W0S) - 0.7W	2. External Solar Panel (UC-SOEX-6V7) – 7.5 W	3. External Li-Ion Pack (UC-BPEX-12A) – 12A/h	4. External IR light 12V DC (UC-VIR0-170) - 104 diodes	5. AC Controller (RF) for ext. IR Spot (240 V) - 40m RF range

Available on Model Variants:
FALCON PRO-IR-CR
(UC-C90-CR-A-WA0-G0)
OWL PRO-IR-CR
(UC-M90-CR-A-WA0-G0)

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UNIQCAM® Cameras + Solar Bundles (Applications)

Version 2 – Bundle B2

Camera with 940 nm IR and ext.IR Spotlight - completely battery operated - 6V/ 12V DC

Options/Additions:

1. Attached Solar Hood – 0.7W (UC-SOLA-W0S), internal IR Spotlight (940nm) – range up to 5m	2. External Solar Panel (UC-SOEX-6V7)- 7.5W, 6V ➢ Cable to camera with IR spotlight	3. External Battery Pack 12A/Hr & Controller Board -IR (940 nm) range up to 30m	4. External IR spotlight 12V DC -- 940nm – (UC-VIRO--IR range up to 30m

Available on Model Variants:
FALCON PRO-IR-CR
(UC-C90-CR-B-WA0-G0)
OWL PRO-IR-CR
(UC-C00-CR-B-WA0-G0)

The weight of the whole unit item 4 (Camera, IR spot light, solar panel and Li-Ion battery pack) with controller unit is only 3500grams.

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UNIQCAM® Cameras + Solar Bundles

UNIQCAM VERSIONS / APPLICATION REQUIREMENTS - RECOMMENDATIONS												Jan-18
APPLICATION	VERSION REFERENCE	Guard-Dog	Falcon-Pro	Falcon-Pro-IR	Owl-Pro-IR	3G-Modem	WIFI-Modem	RF-Modem	Solar-Hood	Solar external	add Battery Solar/Spotlight	DC Contr. Lightswitch
❶ carry camera on world travel, holiday home, watch your property, etc.	Ver: A1 Page ①	√	√	√	√	(√)	(√) pers. hotspot					
❷ surveillance - **Intruder** in remote areas, occasional events	Ver: A1/2 Page ① ②		√	√	√	√	(√)	(√)	√	(√) if requ.	(√) ext.Spot-Light if requ.	
❸ surveillance - **Traffic** remote areas, more events	Ver: A 2 Page ① ②		√	√	√	√		√		√	(√) piggy back Batt. , if requ.	
❹ surveillance with **Night Vision**- of larger areas wireless AC Contr.requires 240 V, or inverter to 12VDC	Ver: B 2 Page ③			√	√	√	(√)	√		√	(√) does not require add piggy back Batt	√
❺ surveillance with **Night Vision** - for large areas fully batter/solar operated	Ver: B 2 Page ④		√	√	√	√		√		√	(√)	
, NOTES: (√) = optional -- above are recommendations; other combinations can be arranged.												

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