

The C32M with enhanced GPS capabilities is ideal for applications where highly accurate geo-fixed images are important.

#### APPLICATIONS

- Parking Enforcement
- Parcel Delivery
- Field Service
- Utility Mapping
- Highway Maintenance
- Car Rental Management
- Emergency Services
- Geo-Fix Image Apps
- Applications benefiting from SBAS (1 to 2m) geofix accuracy.



The Blackroc C32M is the successor to the C31M camera launched in 2008 as an add-on peripheral to the increasingly popular WORKABOUT PRO handheld computer from Psion Teklogix.

The C32M is the next generation in terms of succession but a quantum leap in terms of built-in functionality and ease of use.

#### Features at a Glance:

- 2 mega pixel colour camera
- On-board High Precision GPS
- Geo-fixing of camera image location
- Fast Time to First Fix
- USB connectivity to WORKABOUT PRO via scanner port allowing simultaneous use of wide area Comms

#### USB Interface

The C32M is a **single board solution** which integrates via USB, enabling connection to the WORKABOUT PRO with a simple flexi connection to the internal scanner USB port. This frees the internal X-Mod slot for GSM wide area Comms.

All Psion Teklogix' rear mounted serial barcode scanner options can also be used in conjunction with the camera and GPS.



**Communications**

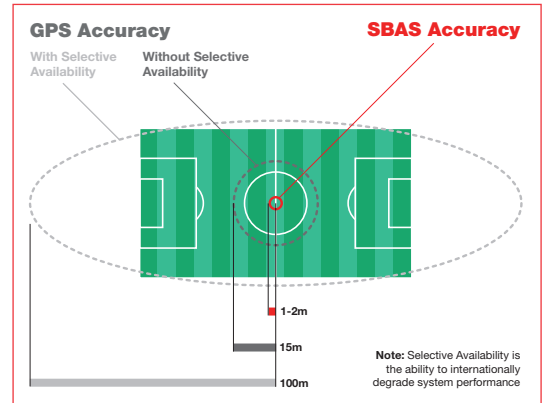
The C32M camera and GPS is located entirely in the endcap, so that the WORKABOUT PRO's internal X-Mod slot remains available for connection to other peripherals, notably Psion Teklogix' own GSM/GPRS/Edge or HSDPA electronics, which can now be fitted into the WORKABOUT PRO, so that wide area communications work alongside the camera.

**GPS accuracy of 1-2 metres**

Developed with enhanced **GPS functionality** the C32M has **full geo-fixing** capability to accurately location stamp each image. Using **SBAS** (Satellite Based Augmentation

System), fix accuracy of the C32M camera is improved from around 15metres (standard GPS), to between **1-2 metres**.

The GPS receiver also has a small back up battery, providing **"warm-boot"** capability, enabling Time to First Fix (TTFF) of as little as 10 seconds.



**Application Development**

Blackroc has implemented most of the SDK software for the previous C31M camera, directly into the new camera driver, making application development a very straight forward process.

WiFi CF cards, Psion Teklogix' GPRS module & barcode scanners, and the camera and GPS functions have been proven to run simultaneously without any problems making the WORKABOUT PRO, truly, the Swiss Army Knife of rugged handheld computers!

**Customisation**

Because the C32M is built from separately sourced high quality optical components, not just "off-the-shelf" modules like most handheld devices, Blackroc are able to customize lenses and even the image sensor to cater for even the most demanding applications. Speak to Blackroc about special requirements.

<b>Camera Resolution</b>	2 MegaPixels
<b>Interface</b>	USB (via WORKABOUT PRO scanner port)
<b>GPS</b>	Fully Integrated SiRFstar III receiver with warm boot and with SBAS satellite capability
<b>Illumination</b>	High Power White LED
<b>Dimensions and Weight</b>	60 x 98 x 38 ( including GPRS antenna), 100 grams



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