

Ref: LIVPR15

## **Livingston Brings Cost Effective PIM Testing Solution to Mobile Communications Market**

*iQA portable analyser from Kaelus now available for rental*

4<sup>th</sup> August 2011 – Europe's leading test equipment sourcing firm, Livingston, has taken steps to support the mobile sector's migration to IP-based communications, by offering a series of passive inter-modulation (PIM) testing solutions. These state-of-the-art testers will enable the rollout of network infrastructure that achieves the full operational potential of LTE and ensures that base station performance is not compromised.

PIM is set to be a major issue for mobile operators to face as they move to 4G technology. It arises when the signals emanating from a base station are impacted on by radio frequency (RF) interference caused by mixing together of other wireless signals. This interference causes the noise floor of the base station to be increased, reducing its sensitivity. Though this is something that has, to some degree, affected earlier mobile communications generations, the increased noise floor caused will have a far greater as LTE and HSPA+ networks are brought online, due to the large proportion of data being carried. It will mean that highly sophisticated test equipment will need to be utilised in order identify any sources of unwanted signals and evaluate base station construction quality (uncovering poor connector terminations, etc).

The Kaelus iQA series of PIM analysers, now being stocked by Livingston, is designed to allow mobile operators to improve network performance and lower operational costs by finding and eliminating the sources of PIM at cell sites. The series supports a variety of different frequency bands (from 680MHz up to 2100MHz). Offered in a compact (500mm x 457mm x 305mm) form factor, weighing 22.7kg. With an operational temperature range of -10°C to +40°C, they can cope with 95% humidity levels and have an IP20 rating against water ingress. The testers all incorporate a high resolution colour display (213mm diagonal)

with an integrated, simple to operate touchscreen user interface. An RF output, two USB and two LAN interface ports are also included.

According to Geoff Kempster, Group Inventory Manager at Livingston UK, “Testing against the impact of PIM on LTE and existing networks will be vital for mobile operators if they are to maintain the compelling services and applications demanded by their subscribers.

However, PIM testing represents another heavy capital expense that operators, or more frequently their subcontractors, need to find budget for.” “Livingston is now in a position to offer the industry an alternative to direct purchase of such hardware” he continues “by allowing companies to rent it, thereby maximising both flexibility and cost effectiveness, as well as keeping lead times considerable shorter than those of rival operations.”

For more information on Kaelus’ iQA series go to:

[http://tm.livingston.co.uk/p\\_kaelus/communications/base-station-handset-testers/kaelus-iqa900b](http://tm.livingston.co.uk/p_kaelus/communications/base-station-handset-testers/kaelus-iqa900b)

**About Livingston:**

Livingston provides and manages test equipment for companies in more than 100 countries worldwide, giving them access to leading edge products regardless of their budget constraints. Founded over forty years ago, the company has built up a highly experienced team of engineering and supply chain professionals. Its services include rental, calibration management, and inventory management. Partnering with Livingston allows companies to optimise their capital expenditure, bringing greater return on investment, as well as generating cash for unused or underused assets through its equipment disposal and redeployment activities.

For more information visit:

[www.livingston-global.com](http://www.livingston-global.com)

**Contact Livingston:**

Livingston House, 2 Queens Road, Teddington, Middlesex, TW11 0LB, UK.

Tel: +44 (0) 208 614 4006 Fax: +44 (0) 20 8977 6431

For full list of international sales offices [click here](#)

[info@livingston-global.com](mailto:info@livingston-global.com)

**Editorial Contact:**

Philippe Suel, Marketing Director, Livingston

Email: [philippe.suel@livingston-global.com](mailto:philippe.suel@livingston-global.com)

**Issued by:**

Mike Green

Pinnacle Marketing Communications Ltd,

Prosperity House, Dawlish Drive, Pinner, Middlesex, HA5 5LN, UK.  
Tel: +44 (0) 20 8429 6543  
Email: [m.green@pinnaclemarcom.com](mailto:m.green@pinnaclemarcom.com)  
[www.pinnacle-marketing.com](http://www.pinnacle-marketing.com)