PRESS ANNOUNCEMENT
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HyperPanel Lab latest Digital TV software breaks the boundaries of PVR performances.

HyperPanel Lab unveils the solution at IBC on its ODM partner booth – ASKEY – **1.A40**

Amsterdam / Sept 10, 2014 - **P**ersonal **V**ideo **R**ecorders (PVR) have definitely gained global popularity and traction across the whole Market. Initially driven by tier-one Pay TV Operators, PVR are now increasingly capturing attention in Retail, actually even beyond the usual high-end segments.

But as most greenfield TV sets do already come with native digital TV front-end and Internet capabilities, non subsidized stand-alone PVR boxes have to offer far more usability and benefits than ever before to try and compete in the modern living-room landscape.

One way forward - as recently relayed by the HomeGateway Forum (HGI) - is to unleash better consumer experience beyond just the main TV screen. It is typically about offering the ability to serve all devices in any other room, like Tablets or Smartphones, with advanced indoor streaming and trick-modes such as "*start-over*" and "*follow-me*" functions.

But when based on mainstream power-hungry OS and Middleware, such Home-based PVR gateways are so complex to design that most of them require multiple core CPU alongside with expensive NAS type hard-disk and their dedicated processor. That generally limits the penetration to the high-income household regions of the world.

At last, thanks to HyperPanel Lab realtime OS booster and it's dedicated multiscreen Middleware, our 4 tuners lightweight reference design platform does deliver best of breed browser-based multiroom PVR use cases as defined by the HGI Forum (e.g.: integrated WiFi Access Point, advanced trick-modes like « follow-me » and « start-over »). It is moreover to date the first and only headed satellite Gateway Server duly certified by SES™ under the prestigious SAT>IP™ label.

But before even diving into the whole-home PVR momentum, the most amazing challenge that HyperPanel Lab's software unleashes is to offer to low-end market segments cutting edge PVR design built for elite level use cases - hence breaking the performance boundaries and what can be achieved - while justifying anybody would be able and prepared to acquire such a PVR for their main TV set.

Among the awesome set-top box and PVR performances HyperPanel Lab propels using basic affordable hardware, one could list the following ones:

- ✓ **Turbo Zap** => As low as 1, and up to 1.5 second, ultra fast zapping time.
- ✓ **Turbo Boot** => Sub 30 seconds boot time.
- ✓ **Turbo Record** => Up to 3 HDTV programs recorded in parallel, while keeping live control trick modes on a fourth one. No packet lost.
- ✓ **Turbo Disk** => Next to zero latency time when accessing a recorded program.

As well as very useful extra features such as:

- ✓ Ability to play & time-shift any of the recorded programs while recording are still in progress.
- ✓ « *Start-Over* », « *Follow-me* », and up to (x32) slow and fast motion modes.
- ✓ Ability to convert a time-shift buffer (« *start-over* »), into a recording.
- ✓ Very low power consumption, and true noise reduction.
- ✓ Supports HbbTV and Webkit (HTML-5).
- ✓ Modern and fluid icon based user interface.

About HyperPanel Lab:

HyperPanel Lab is a French private R&D company that was established in 1986 as a truly independent software engineering Laboratory selling the output of its own in-house developments. Over the last couple of years, our Research and Innovation focus has been essentially put on the design of a break-through disruptive embedded OS (**O**perating **S**ystem) specifically tailored to fulfil the constraints of any mobile connected devices, typically including also in this process the booming IoT (**I**nternet **o**f **T**hings) and wearables.

HyperPanel Lab has gained a world-class reputation in building advanced multimedia solutions, especially since the highly successful tipping-point we made for CanalSatellite in 1996 when we fully developped for them the whole middleware of the world-first interactive digital STB (**S**et-**T**op **B**ox) ever deployed (35 millions licences have been rolled-out in Europe, Asia and Middle-East).

Leveraging on this unique expertize, HyperPanel Lab has solely engaged into the development of a genuine indoor Multimedia Home Gateway capable of seamlessly mixing and handling all broadcasted services (like Digital TV), together with point to point Internet connexions as well as communications with smart home equipments such as those managing security, smartgrid energy, or accessibility elements. In this particular context, the core objective of the HyperPanel Lab's real-time OS is to present to the user a single unified interface and experience - through the TV set, but also on computers, smartphones and Tablets - inside which we take care of smoothly combining data and services coming from various heterogeneous sources.

Ultimately, HyperPanel Lab's GPOS (**G**eneral **P**urpose **O**perating **S**ystem) is fundamentally architected and tailored to help innovative companies building the next future-proof amazing breakthrough IoT, CE (**C**onsumer **E**lectronics) and mobile devices at cost, performances magnitudes and autonomy levels never even considered before, thus unleashing a whole new Paradigm.

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