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Ethernet Upgrade Package
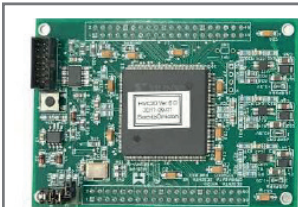# Get ready for the next generation analyser control

We bundled all the necessary hard- and software components to bring your analyser up to date, as well as making sure you'll be PEAK compatible for the upcoming software launch.

The 'Ethernet Upgrade Package' includes:
- **HVC20 V6.0 Card**
- **Pre-configured Ethernet PC**
- **Ethernet Camera for improved signal integrity and unlimited cable length**
- **Ethernet Rack Upgrade for communication between PC and analyser electronics**

PEAK
Next generation software platform for analyser control

4. **Ethernet Rack Upgrade**

3. **Ethernet Camera**

2. **Pre-configured Ethernet PC**

1. **HVC20 V6.0 Card****

Ethernet Upgrade Package

The ethernet upgrade package at a glance. PEAK is our next generation software platform for analyser control. With our upgrade package you get ready for our new future proven software platform for electron spectroscopy experiments. Its upgradeability includes web based technologies that enable remote control from any device.

1. HVC20 V6.0 Card
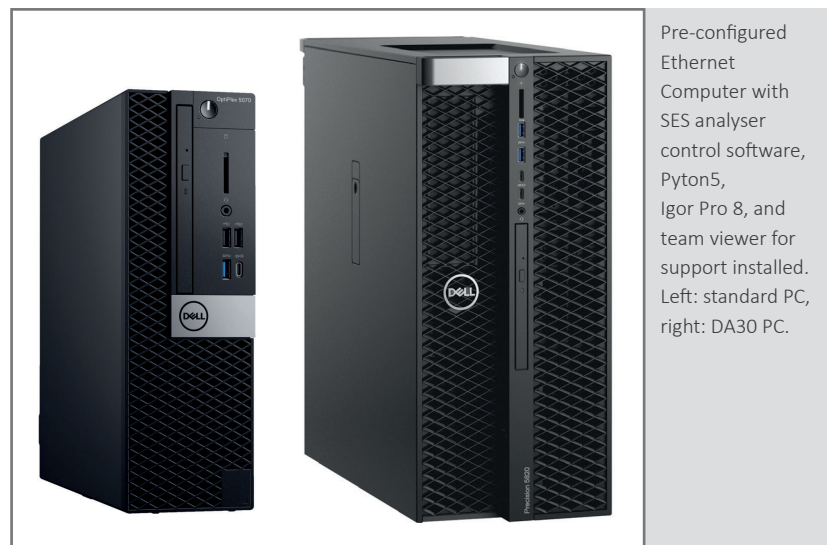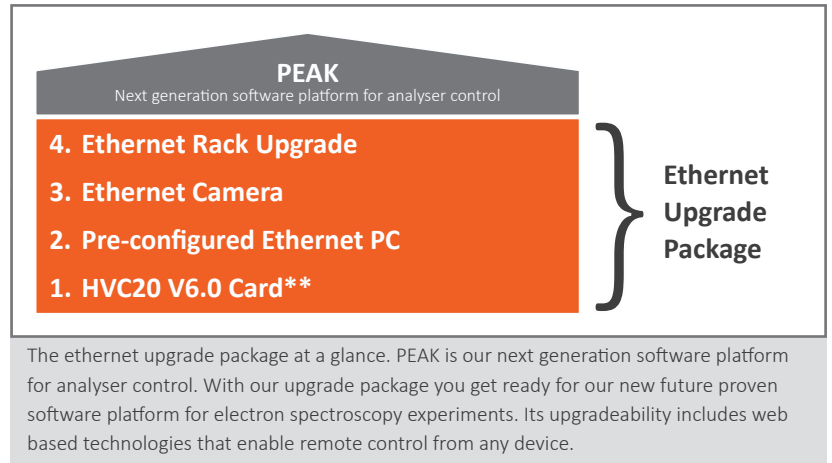HVC20 V6.0 card with new firmware for the Digital Output Motherboard (DOM) to enable ethernet and PEAK compatibility.

DOM Upgrade HVC20 V6.0 Card facilitates future computer upgrades.

Pre-configured Ethernet Computer with SES analyser control software, Pyton5, Igor Pro 8, and team viewer for support installed. Left: standard PC, right: DA30 PC.

2. Pre-configured Ethernet Computer
A pre-configured and customised computer that meets the new PC requirements for PEAK compatibility. It provides the latest platform technology. Drivers and SES are installed, tested and customised to your instrument. Features:
- Win10 64-bit computer with hardware and software necessary for analyser control
- 'Plug and Play', customised and pre-installed
- One year remote support* including advice on plug-ins, e.g. manipulator control
- Most recent SES software version with Real-time straight slit compensation
- Igor Pro 8 Software License
- PEAK compatibility

Ethernet Upgrade advantages:

- 20% discount on end-user prices (valid until 31st December 2019)
- PEAK ready
- A complete Windows 10 solution for analyser control
- Improved signal integrity

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*   Prerequisite for included remote support is a complete ethernet upgrade solution.
** An additional upgrade for the Digital Output Motherboard (DOM) is required for systems installed before 2006.

3. Ethernet Camera

The ethernet camera assembly is available in two variations:

a) For DA30/R4000/R8000:
17GM (85816), resolution 1392 x 1040,
frame rate: 17 frames/second.

b) For R3000/SES200/SES2002:
70GM (85827), resolution 659 x 490,
frame rate: 70 frames/second.

A fully hardware and software integrated digital Ethernet CCD-camera for data read out, enabling correction on pixel level.
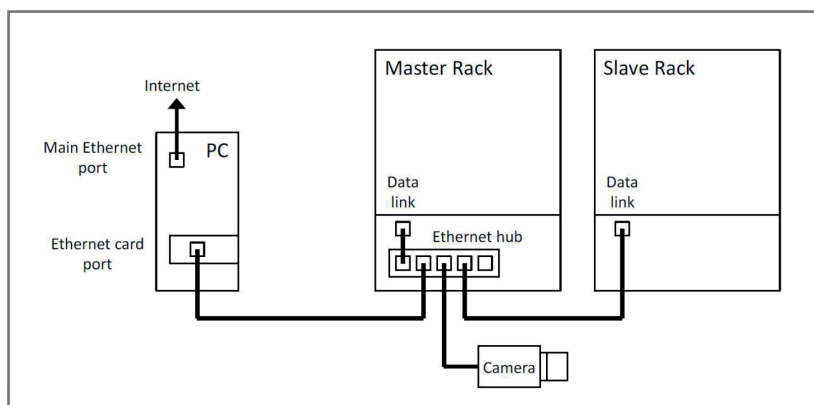

Complete camera assembly ready for mounting directly onto the analyser camera flange. The assembly allows easy adjustment of focus and rotation.
Including power adapter and 10 meter ethernet cable.

4. Ethernet Rack Upgrade

Traditionally, Scienta Omicron analysers have been equipped with a Firewire CCD camera for the detector and a USB-to-RS422 adapter for the high voltage rack communication. The next generation setup utilizes Ethernet for the camera as well as the rack.

Features:

- PEAK compatibility
- Ethernet communication between PC and Rack
- Improved Signal integrity gives unlimited cable length
- The Ethernet interface simplifies Rack Add-ons

The HV rack is upgraded with a new inlet plate on the back which is equipped with an Ethernet switch (hub). The hub links all Ethernet devices connected to the instrument PC, including the HV rack itself.

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