



Unique interactive teaching software



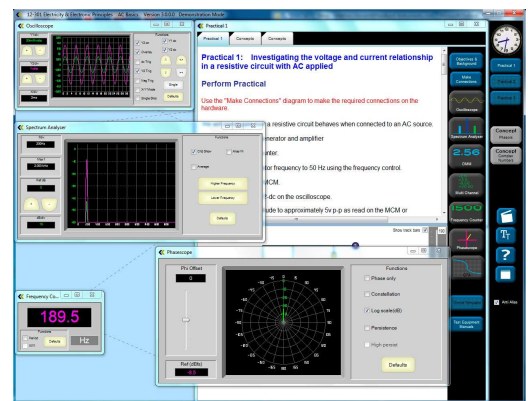
Espial means “to discover by observation” and describes the didactic concept behind our well established Discovery software. To emphasise that the new version is called Espial.

Espial extends the boundaries of teaching and learning, as well as being a more student focussed environment.

Espial Software Package 93-420 (essential with appropriate products)

The most important philosophy of our Espial software package is the interactivity with teaching hardware. Espial can be applied to many products within our range of teaching products and is used extensively within the telecommunications, control and basic electronics ranges.

The teaching content is provided within the software; this includes the underlying theory, written so that it does not make extensive use of mathematics. An important part of the content is to highlight the assignment learning objectives and to convey relevant background to the student. Consequently, the student is well prepared for the practical work using the hardware, and can put the results into perspective.

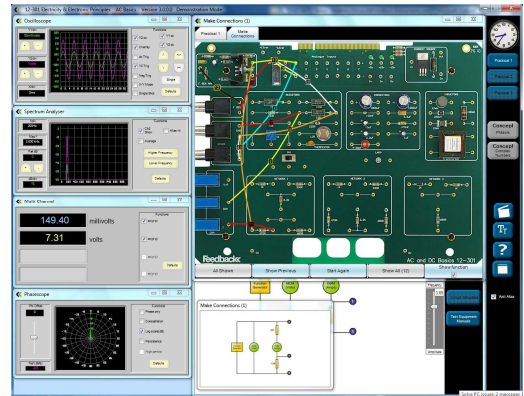


Instrumentations and teaching material are displayed together.

Espial operates so that its appearance and the range of instrumentation depend on the context. So, for example, if the practical-work requires the use of complex instrumentation such a constellation or a phase meter, one is made available, whereas at lower levels of study it would not be provided. Test instruments are initialised with settings suitable for the required measurements, but students are often expected to change them during the practical work. The instruments have cursors to make measurements and their displays may be printed or exported for inclusion in laboratory reports.

System Benefits

- Uniform hardware & software delivery platform reduces familiarisation time
- Step-by-step instructed courseware optimises instructor-student contact time
- Guided patching sequence reduces patching errors
- Classroom sets and courses maximise flexibility



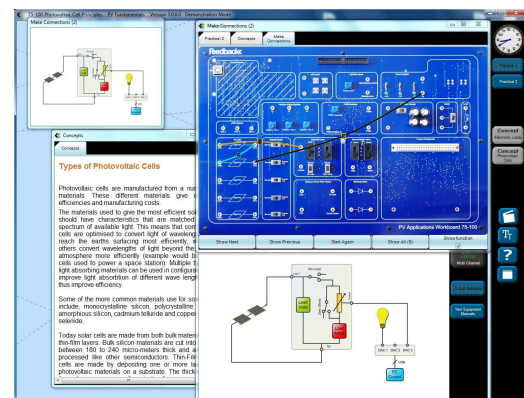
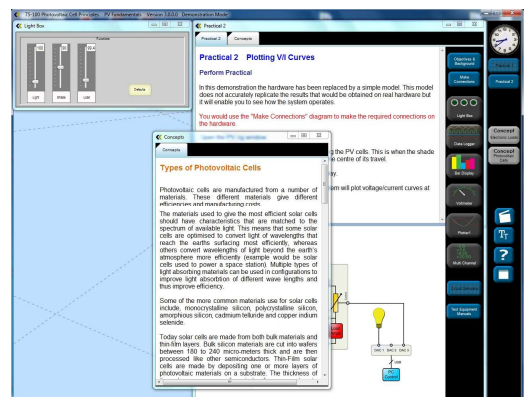
Guided patching reduces errors

NEW Features

- Includes Espial Tools
- Allows teachers and lecturers full edit facilities.
- The creation of new content and additional assignments
- Free of charge online software updates

Features

- Hands off for tutors - hands on for students
- Self-paced
- Unrestricted and open learning environment
- Practical demonstration of theory and concepts
- Interactive patching diagrams
- Real-time embedded instrumentation
- Automatic instrumentation configuration
- Data export for analysis
- Edit facility only on selected workstations
- USB connection to hardware



Diagrams are related to the hardware

For creating and editing Espial content the tools components are:

Laboratory Architect determines the range of assignments available to the students and to configure the look and feel of the Espial environment.

Assignment Builder creates new or edits existing laboratory assignments and configures the test equipment.

Content is edited using any HTML editor or Microsoft Word. (Note: Word is not supplied as part of Espial)

Winwiz creates and edits work board 'patching' diagrams. It also configures test equipment monitor points and 'further information' points on the practical diagrams.

Practical diagrams are edited by Microsoft Visio. (Note: Visio is not supplied as part of Espial)

Manual Builder creates a version of the content ready formatted for printing.

Feedback Products that require Espial Software Package 93-420 (essential)

- Basic Electricity & Electronics (12-300 Series),
- Control & Instrumentation Fundamentals (33-033),
- Telecommunications Principles (53-004 and 53-200 series),
- AntennaLab (57-200),
- Photovoltaic Principles (PV75-100)
- Process Control (38 Series)

Espial Course Manager 93-410 (optional, not included in 93-420)

This creates complete courses containing assignments from any of the installed Espial products plus external resources such as documents, multimedia material, third party programs, web urls, or locations on local intranets. Comprises **Course Designer** and **Course Presenter**.

Features

- Provides tutors with easy modification and creation of courses
- **Course Designer** generates customised courses
- **Course Presenter** is the student interface that delivers the courses
- Allows Espial assignments from different products to be mixed
- Can add external and third party resources
- Compatible with a network by using a shared drive

Operating Systems

Espial and Espial Tools are compatible with 32 and 64 bit versions of Windows XP, Vista, Windows 7 and Windows 8.



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Feedback reserves the right to change these specifications without notice