

# PENRIGHT! PRO

## Software Development Kit for C Programmers

Design powerful mobile  
applications to run on the widest  
range of pen computers



# PENRIGHT! PRO

## The right features for the 'write' market

A C programmer with working knowledge of MS-DOS(r) and the PenRight! Pro Software Development Kit can design customized applications using a variety of powerful features:

- ✓ Compact and efficient APIs, requiring only 150k of system memory.
- ✓ Integrated upper/lower case handwriting recognition.
- ✓ Integrated database and data communications support.
- ✓ Data entry through fields, radio buttons, check boxes and lists.
- ✓ Fields to capture notes or electronic signatures.
- ✓ Ability to rotate output to face any of the four sides of the display.
- ✓ Ability to incorporate graphics, making applications visually appealing.
- ✓ Easy manipulation of multiple windows, to accomodate almost any kind of data.
- ✓ Design capabilities for creating custom control objects such as dials and slider bars that are easily hooked into PenRight! Pro's standard event processing.
- ✓ Code resource support to allow modular, executable code (i.e. wireless communications support) to be loaded only when needed offering functionality similar to a Windows(tm) DLL.



# 3.6

## The power of 'smart' development tools

Geared to the C programmer, PenRight! Pro is an innovative Software Development Kit for building mobile applications.

Thanks to smart development tools (DesignForm (tm), PenResource(tm), and CodeStart(tm)) the application's user interface can be designed and tested simultaneously. Prototyping is easy too. A skeleton of the C program is created without having to write code, enabling custom applications to be designed quickly.

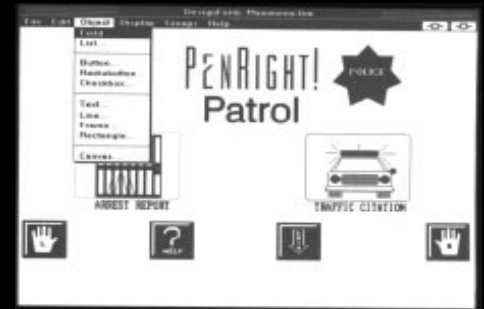
PenRight! Pro applications are suited to everything from field inspections to retail sales to law enforcement. They're designed to run, not only on innovative pen computers, but also on keyboard, laptop and desktop computers with a mouse or light pen.

## The power of 'smart' development tools

The PenRight! Pro Software Development Kit has been used to build more successful applications than any other pen based environment on the market. PenRight! Pro applications are currently used by hundreds of companies across more than thirty industries worldwide.

## PenRight! Pro applications run on a wide range of hardware

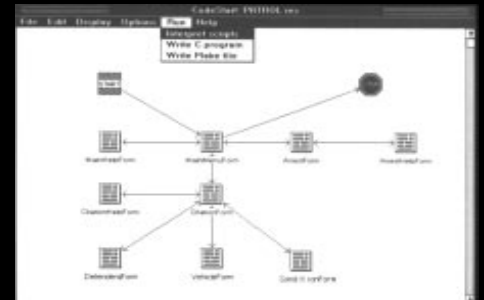
PenRight! Pro applications use the highly efficient and compact PenRight!(R) Runtime software engine to deliver handwriting recognition and a graphical user interface to a broad range of system configurations. PenRight! Pro applications can run on virtually any pen computer on the market, just look for the PenRight! certified logo.



Use DesignForm to interactively create forms directly on the computer screen. The graphical display permits developers to select, size and move fields and control elements with click-and-drag ease. Developers can easily test forms as if they were part of an actual application.



PenResource gives developers command of the environment's extensive resources that make up the application. Resources represented as icons can be added, modified or viewed easily and applications that edit the various resources can be launched from within PenResource.



Flow and linkages between forms are created using CodeStart. The developer creates the flow from one form to another by drawing connecting lines from one form icon to the next. CodeStart then transforms these links into C source code automatically.

```

MainFormExitButtonHandler
BOOLEAN MainFormExitButtonHandler (EVENTTYPE "event WORD " error)
    BOOLEAN handled = FALSE;
    *error = 0;
    switch (event->eType)
    case cExitEvent:
        Stop();
        break;
}

MainFormHandleEvent
BOOLEAN MainFormHandleEvent (EVENTTYPE "event WORD " error)
    BOOLEAN handled = FALSE;
    *error = 0;
    switch (GetObjectid (event))
    case ExitButton:
        handled = MainFormExitButtonHandler (event, error);
        break;
}
    
```

C Code is developed starting with output generated from CodeStart which is well structured and well commented. The output code can be extended by the developer to include the exact needs of the application. A make file can also be generated by CodeStart.

## PenRight! Pro Software Development Kit

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#### PENRIGHT PRO APPLICATION PROGRAMMING INTERFACE (API)

The API library provides over 350 routines that can be called by virtually any C program allowing developers to take full advantage of their favorite off-the-shelf MS-DOS(R) development tools, including standard editors, debuggers and other utilities.

#### The API's Many Features Includes:

- Upper and lower case hand printed recognition including support for Danish, French, German, Italian, Norwegian, Spanish, Turkish, U.K. English, U.S. English.
- Integrated support for dBase files, integrated data communications support, multiple window control, event control, pointing device and pen control, full graphics support for VGA or CGA displays, support for Microsoft Windows(tm) compatible fonts, sophisticated resource management.

#### Three Primary Development Tools

- PenResource, CodeStart and DesignForm radically simplify and speed up the development process.

#### Sample Code

- Provides the designer with real working examples of PenRight! Pro applications and demonstrates how to use PenRight! Pro features.

#### Fonts and Clip Art

- A wide selection of font sizes and styles, plus 100 PicturePak(tm) images enhance the look of applications.

#### Documentation

- Tools User Guide, API Reference Guide, Learning Guide, PicturePak Sampler and Application User's Guide cover every aspect of PenRight! Pro Development.

## PenRight! Pro Services

#### Training Course

- A three day hands on training class gets developers started quickly. Attendance requires a knowledge of C programming.

#### Developer Program

- This comprehensive program offers developers a variety of technical and marketing support and services.

#### Typical Applications

- Hospital Patient Reporting, Route Accounting, Field Inspections, Field Work Order System, Merchandising, Public Safety Inspections, Consumer Surveys, Police Reporting.

#### Development System Requirements

- 80386 CPU or higher, 2MB system memory with expanded memory manager loaded, 6MB storage, 640x400 or VGA display, Microsoft compatible or Logitech mouse, MS-DOS v3.3 or higher, C compiler (MS C v5.0 or higher, Turbo C v1.0 or higher or Borland C++ v2.0 or higher), Borland or Microsoft Linker, Debugger, Source code editor.

#### System Requirements for Application Execution

- MS-DOS v3.3 or higher, 8086 CPU or higher, 640k system memory, 512k storage, Pen, mouse or Microsoft compatible mouse, digitizer input device.

#### Display Requirements for Application Execution

- (640 x 480) VGA compatible
- (640 x 400) ATT 6300 compatible
- (640 x 200) CGA compatible
- (256 x 320) compatible

#### PenRight! Certified Hardware Manufacturers

- AST, Dauphin, Fujitsu, IBM, MicroSlate, NEC, Norand, Samsung, Telepad, Telxon, Toshiba, Tusk

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