PRO Etching®

Version 1.0

USER MANUAL

Contents

Introduction

Work in program PRO Etching begins with loading raster black-and-white (Grayscale) or colour (Color) images which will be used further for creation of imitation of an engraving. For loading of the initial image it is necessary to take advantage of the button of fast access of the panel of tools for work with files, or a combination of "hotkeys" (Hotkeys) — Ctrl+O. The program gives to the user the expanded possibilities for choice shadings and management of layers with masks.

The loaded image should be obligatory in a format *.BMP or *.TIF (.TIFF) without a compression (uncompressed).

The program interface

For convenience of using in the program panels of tools are provided:
- The panel of tools for work with files (Files)
- The panel of tools for image viewing (Zoom/Preview)
- The panel of adjustment of parametres of an engraving (Hatching parametres)
- The panel of adjustment of a zone of engraving (Zones Splitting)
- The panel of a choice before the kept options of engraving (Etching Presets)

The program interface also has a window of the initial image, a working window, metric rulers and a status line.

Access to the most important functions, tools and program options are available also in Hotkeys (Hotkeys)

The panel of tools for work with files (Files)

The panel is intended for management of files of images, their adjustment and to access to the additional information.

Buttons:

— Loading of the initial image or before the kept adjustment of parameters of engraving (Load Picture / Etch Style). The Hotkey (Hotkey) — Ctrl+O.

— Preservation of options of parameters of engraving (Save Etch Style). The Hotkey — Ctrl+S.

— Preservation of options of parameters of engraving under other name (Save Etch Style as …). The Hotkey — Shift+Ctrl+S.

— Export of the ready image to a format *.TIF/TIFF (Export). The Hotkey — Ctrl+E. At preservation the standard window of a choice of the catalogue and the task of a name of a file is caused. In the course of preservation the program requests the permission of a written down file. The necessary permission can be chosen from the falling menu or to enter it manually.

— Serves for adjustment of brightness and contrast of the initial image (Brightness and Contrast). The Hotkey — Ctrl+B. At use of this function there is a panel «Adjust Image» with toddlers for change of current values of brightness and contrast.
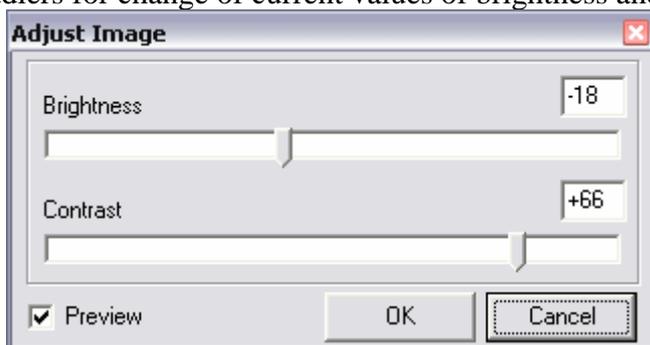
The given values can be entered and in a manual mode (manual mode). At noted point (checkbox) «Preview», all changes can be observed in real time in a window of the initial image. All options of brightness and the contrast, distinct from initial, remain together with options of parameters of engraving.

— A call of the given inquiry (Help). The Hotkey — F1.

— The information on the program (About Pro Etching).

The panel of tools for image viewing (Zoom/Preview)

The panel is intended for fast access to tools of scaling, measurements and viewing modes.

Buttons:

— The tool «Pan Tool» serves for moving of the increased image in a working window. A hotkey — F4.

— The tool «Measure Tool» (the Hotkey — F5), is intended for various measurements, in particular thickness of lines, distances between them, a corner of their inclination and so forth For use of this tool it is necessary to position the index in an index point, to press the left key of the mouse and, not releasing it to move the index in the necessary direction. Not releasing the left key of the mouse to fix the index in the necessary point. In the left part of a status line index point co-ordinates, width and rectangle height in which the spent line is entered, a corner of an inclination of a line and distance between initial and final points will be displayed.

— The tool «Zoom Tool», is intended for increase/reduction in scale of the image in a working window. A hotkey — F6. For image increase it is necessary to click with the left key of the mouse in the necessary part of the image. Thus the image will increase and positioned in a working window concerning a point in which has been made cliques. For increase in any part of the image it is necessary to press the left button of the mouse and keeping it to pull, establishing an increase zone. For image reduction it is necessary to click with the left key of the mouse in the necessary part of the image, keeping pressed a key «Alt». Everyone cliques reduces or increases image scale by 25 %.
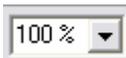
— The window of the falling menu «Choose scale of viewing», shows current value of scale. For its change it is possible to enter numerical value manually, it is direct in this window, and to press a key «Enter» or to choose in the falling menu one of the reestablished values from 25 % to 2000 %. At a value choice «To Width», the image will be increased or reduced on horizontal borders of a working window. At a value choice «To Height», the image will be increased or reduced on vertical borders of a working window (#8).

— The tool «Actual pixels» establishes image scale in a working window 1:1. The Hotkey — Ctrl+1.

— The tool «Fit to Screen», allows increasing or reducing the image on the screen on borders of a working window. A hotkey — Ctrl+0.

— Tool "Anti-aliased" (the Hotkey — F10), switches a mode of display with smoothing or without it. The mode of display with smoothing is intended for more realistic display of result of work of the program. It is necessary to remember, that at the included smoothing the image

portrayal on the screen occurs more slowly, than without smoothing. On unproductive computers it can worsen comfort of work of the operator considerably.

In the program it is provided three modes of smoothing. To learn a current mode, it is necessary to click with the right button of the mouse button "Anti-aliased".


In the dropping out menu the current mode is noted by a fat point. To replace a mode, it is necessary to choose simply the mouse other point of the menu.

    — The tool «View Mode», serves for switching of modes of viewing of the image in a working window. Switching allows to look through the initial image and a corresponding variant of an engraving in current scale. The button kind varies depending on the chosen mode of viewing.

The panel of adjustment of parameters of an engraving (Hatching parameters)

The user has possibility to choose shading type.
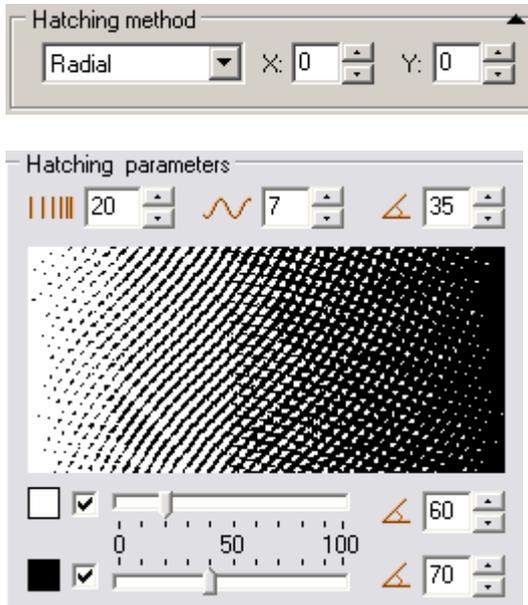
The panel is intended for change of parameters of the engraving which distinct from are used by default or before kept options (Presets). Any parameters in fields of digital input can be changed to one unit at use of keys of the cursor "upwards" and "downwards", or on ten units, at use of keys of the cursor "upwards" and "downwards" with simultaneous deduction of a key «Shift». Transition between fields occurs to use of a key of tabulation — «Tab».

Parameters of options:

 — «Frequency», the parameter displaying quantity of strokes of an engraving on inch or centimeter.


To choose units of measure — lines on inch or lines on centimeter — it is necessary to click with the right button of the mouse on an icon of a lineature and in the appeared menu to choose necessary value.

 — «Wave», the parameter which is responsible for amplitude of lines of an engraving. Zero value displays a straight line.

 — «Angle (Degrees)», displays in degrees size of an inclination of primary lines of an engraving from a vertical.
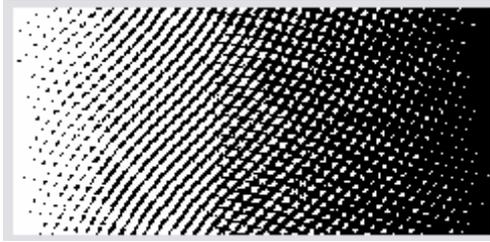
 — «Type hatching». In the given window in real time change of lines of an engraving on an example of a black-and-white gradient is visually displayed at current options of engraving. The image in the field of viewing has the same scale, as the image in a working window.

 — «Light Tuning», serves for adjustment of secondary white lines which are imposed on primary lines of an engraving, actually transforming them in a dotted line. For inclusion of these options it is necessary to allocate (select) the given option (checkbox). The toddler sets intensity white, and the parameter «Angle» allows to change a corner of an inclination of these lines.

 — «Shadows Tuning», serves for adjustment of secondary black lines which are imposed on primary lines of an engraving. For inclusion of these options it is necessary to allocate (select) the given option (checkbox). The toddler sets intensity black, and the parameter «Angle» allows to change a corner of an inclination of these lines.

The panel of adjustment of zones of engraving (Zones Splitting)

The panel serves for adjustment of zones of engraving. Splitting into zones is necessary to avoid monotony of strokes of an engraving. Thus in each next zone there is a change of a direction of shading.

Tools:

— In the program it is provided three kinds of splitting into zones: Level (Levels), Gradient (Gradient) both Color (Color) and User ` s (User). At a choice «Level» splitting into zones will occur depending on quantity of the white image in this or that site. At a choice «Gradient» splitting into zones occurs depending on a gradient direction, i.e. from a direction of transition from light to the dark. At a choice «Color» splitting into zones occurs depending on presence of this or that colour in the given site of the image.

— The parameter «Zones Quantity» is responsible for quantity of zones with a changing direction of lines of an engraving.

— The parameter «Blur» serves for adjustment of smooth transition between zones.

The panel of a choice of the kept options of engraving (Etching Presets)

Etching Presets
- Cross dash lines
- Cross lines
- Etching-1
- Etching-2
- Etching-3
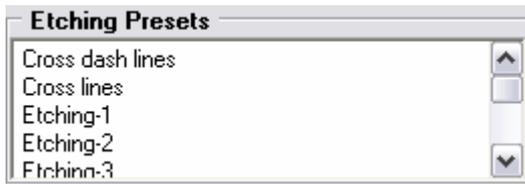
Displays kept before engraving adjustment.
Program Pro Etching is delivered with ten specially developed options simulating various styles of engraving:
- Cross dash lines: crossing lines with dashes in light parts.
- Cross lines: crossing lines.
- Etching-1: a version of chisel etching imitation.
- Etching-2: a version of chisel etching imitation.
- Etching-3: a version of chisel etching imitation.
- Mezzotint: mezzotint etching imitation.
- One line: line raster.
- Reticulation: photographic reticulation (photo typing).
- Stochastic: stochastic raster imitation.
- Zinc: zincography imitation.

For application of style it is enough to click twice under its name.
If in this folder the user keeps new options of an engraving, they automatically will appear in the list «Etching Presets».
In the course of work «styles by default» can be changed, however there is a possibility to return to their initial installations. For this purpose it is necessary to click with the right button of the mouse on any style and to choose «Restore default Presets» from the opened contextual menu. Thus the additional styles kept by the user, remain untouched.

Window of the initial image, working window, metric rulers and status line.

Window of the initial image. Shows the initial image, and also with a framework allocates on it the area displayed in a working window. This allocation can be moved by means of the mouse. Thus the image in a working window will move synchronously allocated area.
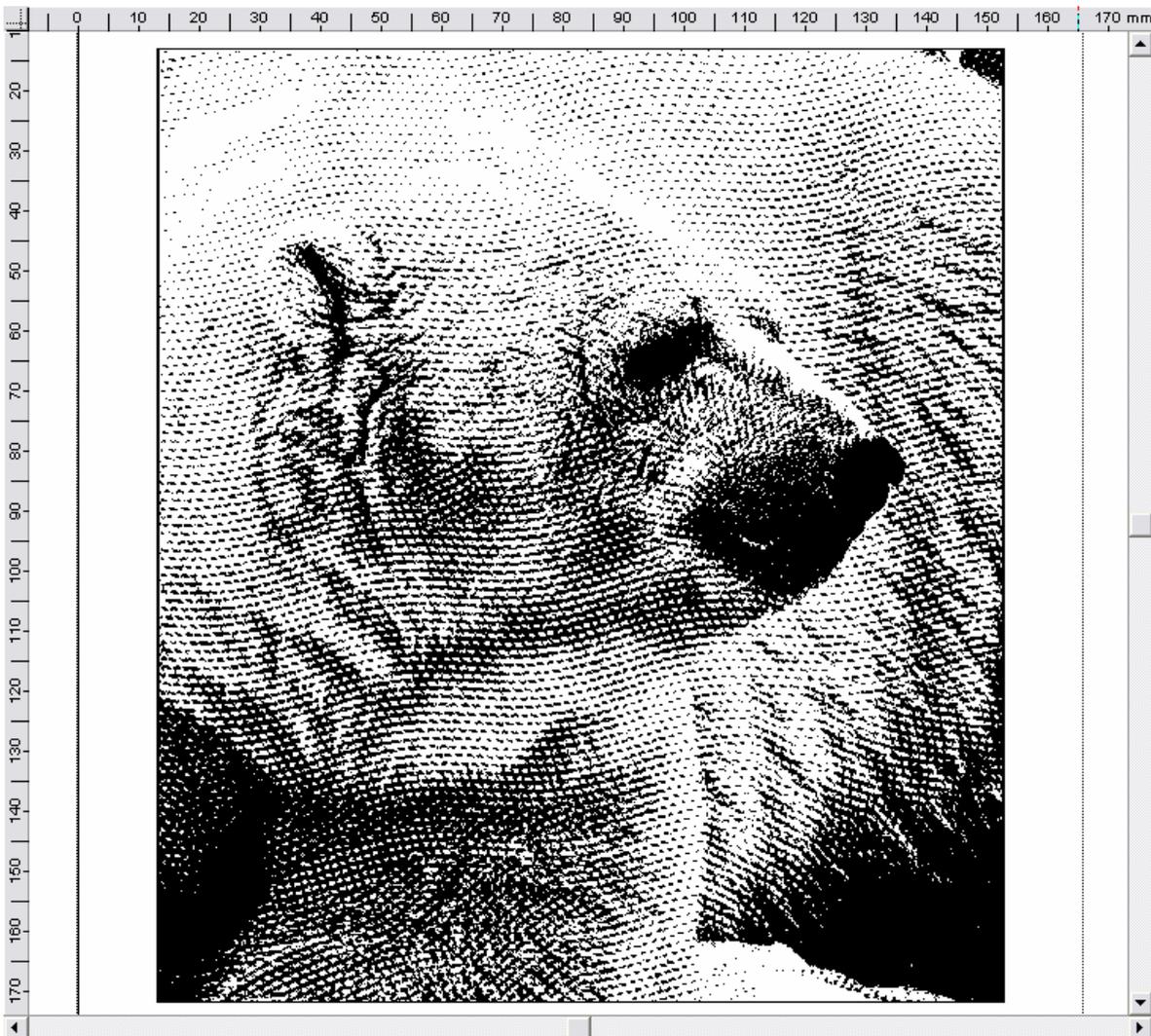
Working window. All actions which are spent over the image are reflected in a working window of the program. The window can display only the initial image or only the result. Display modes can be operated from the panel of tools "Zoom/Preview" by means of the tool «View Mode».
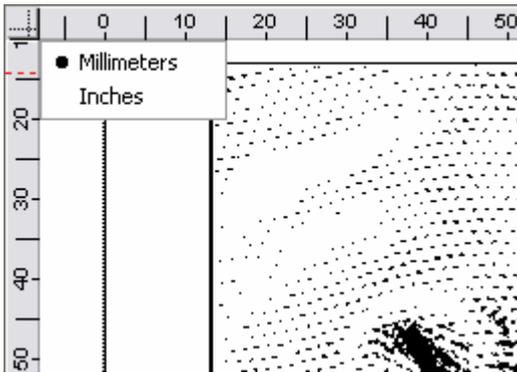
Metric rulers. Display the sizes of the image, and also a cursor position.

The program supports two systems of measurement, metric and inch. For switching between them it is necessary to click the mouse on the pictogram of the beginning of co-ordinates of measuring rulers and in the dropping out menu to choose the necessary system of measurement.

Status line. The line of the status shows the office information. It is divided into three parts:

1. Co-ordinates of the cursor or data of measurements at tool use «Measure Tool».
2. The sizes and the permission of the initial image.
3. A way to the initial image.

Hotkeys

Hotkeys ─ combinations of keys to which the appendix in an operating time can react.

1. Load Picture / Etch Style ─ Ctrl+O
2. Save Etch Style ─ Ctrl+S
3. Save Etch Style as … ─ Shift+Ctrl+S
4. Export ─ Ctrl+E
5. Brightness AND Contrast ─ Ctrl+B
6. Help ─ F1
7. Pan Tool ─ F4
8. Measure Tool─F5
9. Zoom Tool ─ F6
10. Actual pixels ─ Ctrl+1
11. Fit to Screen ─ Ctrl+0
12. Anti-aliased ─ F10

Mode of the manual task of areas of shading

In a mode of splitting into zones "User ` s" management of shading areas in a manual mode is possible.

For each zone probably to appoint the shading with certain parameters.
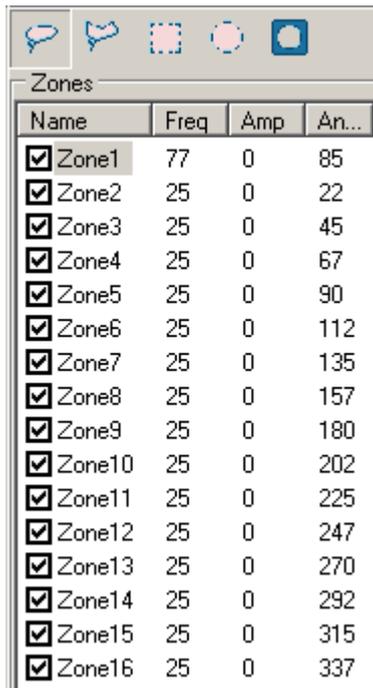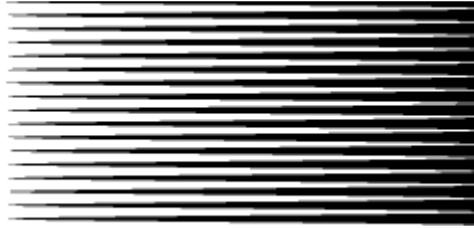
Name	Freq	Amp	An...
☑ Zone1	77	0	85
☑ Zone2	25	0	22
☑ Zone3	25	0	45
☑ Zone4	25	0	67
☑ Zone5	25	0	90
☑ Zone6	25	0	112
☑ Zone7	25	0	135
☑ Zone8	25	0	157
☑ Zone9	25	0	180
☑ Zone10	25	0	202
☑ Zone11	25	0	225
☑ Zone12	25	0	247
☑ Zone13	25	0	270
☑ Zone14	25	0	292
☑ Zone15	25	0	315
☑ Zone16	25	0	337

Example of use of a manual mode of division into zones.
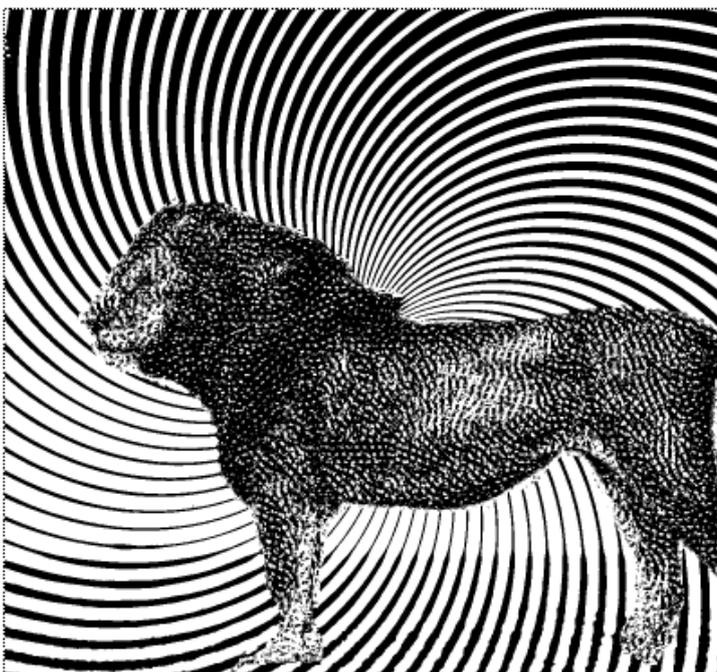
Shadings

The linear:

Hatching method

Linear

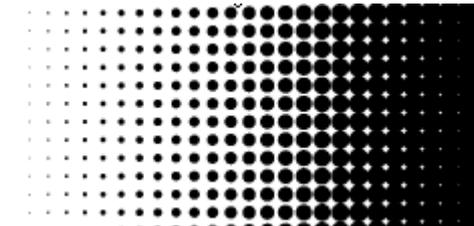The radial: (the Corner = 0)

Hatching method

Radial   X: 34   Y: 54

The radial: (the Corner = 90)
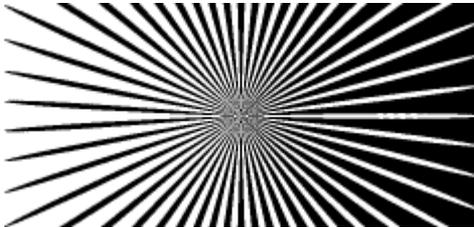
The radial: (the Corner = 45)

Points:

Hatching method

Round

The text:

Hatching method

Text   Font Arial

Text SAMPLE

Puantile:

Hatching method

Puantil'e   N: 3