

# UFG-03

versatile RGB and DVI frame grabber



## High Definition Capture of RGB and DVI Video

UFG-03 is a versatile video frame grabber that enables the capture, printing and transmission of the screen of any PC or other equipment. Tools often available in a standard PC can be used to store the video as single images or video streams. Application areas for the UFG-03 can be found in industrial, medical, multimedia or in maritime environment.

## Compatible with Standard Windows Applications

UFG-03 can be used with a wide selection of video capturing and streaming tools. Any application supporting Video for Windows (VFW) automatically recognizes UFG-03. Also the UFG-03 tools are available in those applications.

For areas where a custom application is necessary, the UFG-03 Extended Driver Interface provides a direct access to its all functions and parameters. A SDK with example applications and example source code is included.

## Automatic Video Signal Detection

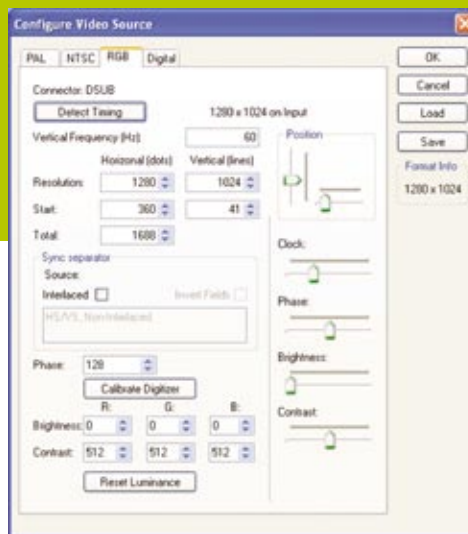
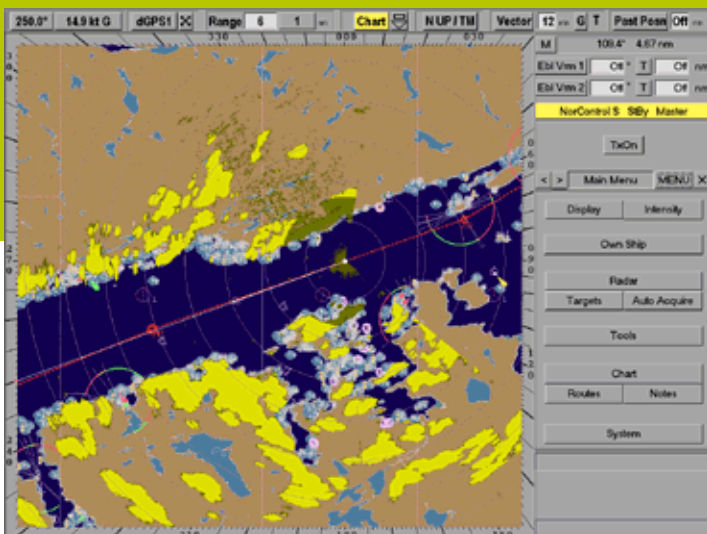
UFG-03 automatically detects all standard VESA display modes. In addition to that, UFG-03 can be used with sync modes from CSync to Sync on Green.

### Benefits

- Capture of images and streams from RGB and DVI video
- Video for Windows compatible
- Compact half size PCI card
- Built-in display mode and sync detection
- PCI bus data transfer speed up to 133 MBytes/s
- Image captured in one video frame
- HW scaling down to half input image size and up to 1600 x 1200

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LEFT **UFG-03 image clarity and stability meets the highest industry requirements.**

RIGHT **The configuration tool enables interactive fine-tuning of the capturing parameters.**

## Applications

### Video Image Capture

You can use UFG Frame Grabbers to store an electronic copy of an image from a medical, industrial, laboratory etc. Instrument's screen. Your need might as well be to backup real time information from an automation system or e.g. a radar display.

### Video Streaming

UFG Frame Grabbers can store your video into a video stream file for live broadcasting or e.g. A slide show presentation.

### Video Printing

The UFG Frame Grabbers replace an outdated video printer. UFG-03 is capable of storing video images from all kinds of video display screens for printing to an ordinary PC printer.

### Picture in Picture

If you need to see the screen of a PC or other device screens on a PC display, UFG Frame Grabbers can help you. Up to 10 screen images can be shown on one PC screen.

## Specifications

|                       |   |                     |
|-----------------------|---|---------------------|
| Video Input           | RGB on VGA connector  |                     |
|                       | TMDS on DVI-I connector   |                     |
|                       | (Composite Video optional)  |                     |
|                       | <u>UFG-03 Std</u>   | <u>UFG-03 HiDef</u> |
| Input Resolution      | 1280 x 1024   | 2048 x 1536         |
| Input Frame Rate      |   |                     |
| 1600 x 1200           | -   | 60 Hz               |
| 1280 x 1024           | 60 Hz   | 85 Hz               |
| 1024 x 768            | 85 Hz   | 85 Hz               |
| Input Pixel Frequency | 110 MHz   | 165 MHz             |
| A/D Conversion        | 8 bits per color  |                     |
| Scan Modes            | Progressive, interlaced   |                     |
| Sync Modes            | Automatically detected HS/VS,<br>Composite and Sync-on-Green                              |                     |
| HW Scaling            | From half of input image size to<br>1600 x 1200, independently<br>horizontal and vertical |                     |
| Output Color Depth    | 16, 24 or 32 bits per pixel   |                     |
| Data Interface        | PCI bus master;<br>bursts up to 133 MBytes/sec  |                     |
| Operating Systems     | Windows XP, 2000 and NT   |                     |
| SW Interface          | Video for Windows compatible<br>and Installable Driver functions                          |                     |
| Multi-board Support   | Up to 10 boards in a system   |                     |
| Module Size           | Half size PCI card,<br>Length 175 mm  |                     |
| Power Consumption     | 7.5 Watts maximum   |                     |



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