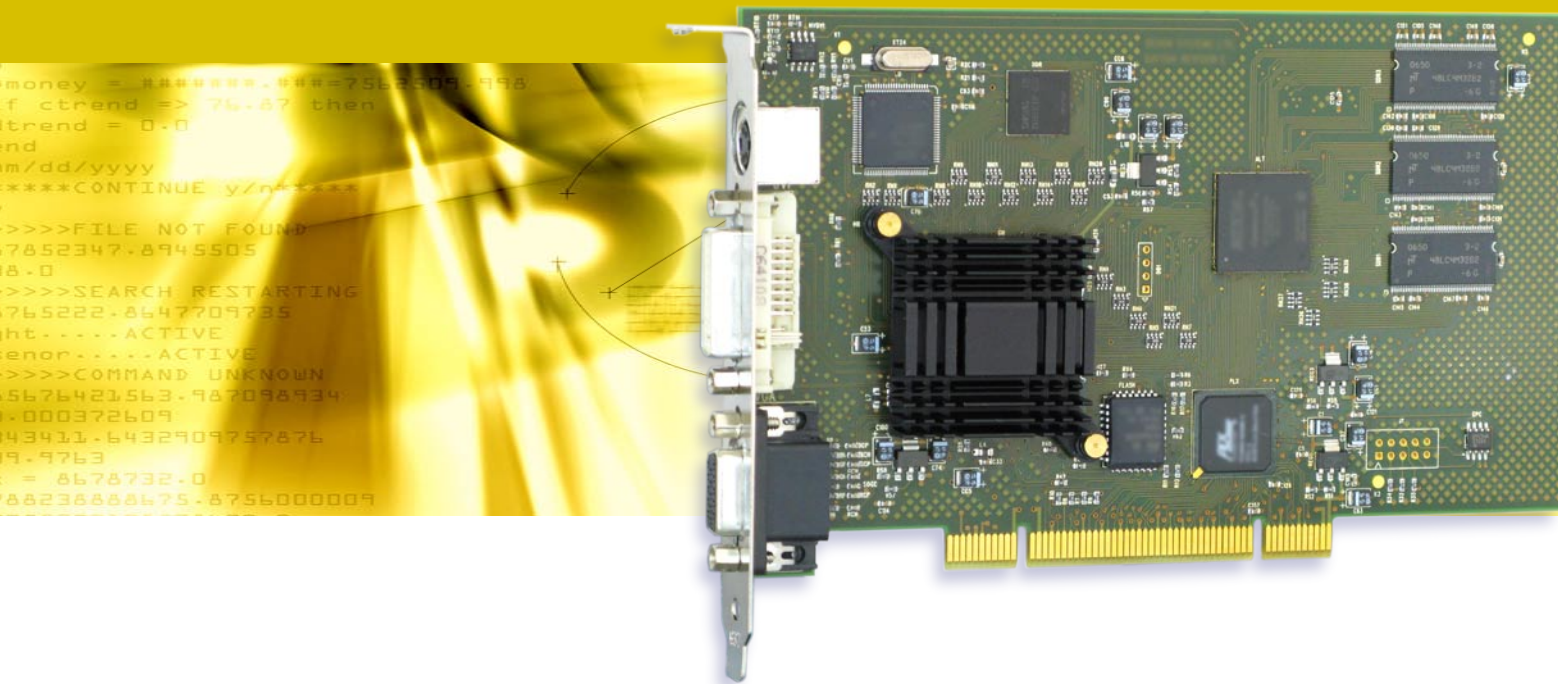# UFG-05 32

high resolution RGB and DVI frame grabber

High Definition Capture of RGB and DVI Video

UFG-05 32 is a versatile frame grabber that enables capture of high definition video from a PC and other equipment. A wide variety of standard PC tools can be used to store the video as single images or video streams. Application areas for the UFG-05 32 can be found in medical, industrial, multimedia or maritime environment.

DirectShow®

UFG-05 32 can be used both in Microsoft® Windows® XP or Vista with any application supporting DirectShow®. The AVStream driver provides the full control of the capturing process, enabling the user to configure the captured resolution as well as an optimum frame rate.

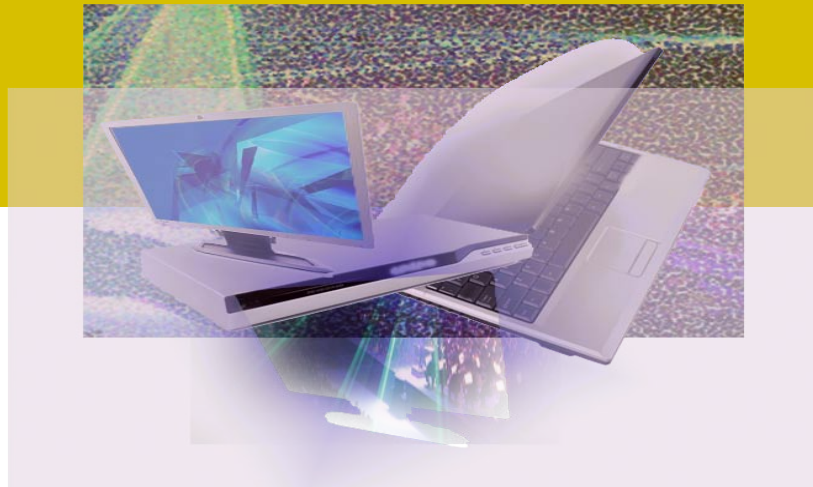## Automatic Video Signal Detection

UFG-05 32 automatically detects all standard VESA and HDTV modes and can be configured to any other timings. UFG-05 32 can be used with sync modes from CSync to Sync on Green.

Benefits

- Capture from DVI, RGB, Component and S-video input

- WDM 32 bit AVStream driver

- Windows® XP and Vista support

- Autodetect VESA and HDTV modes

- Resolutions up to 1920 x 1200 and 1080p

- Data transfer speed up to 110 MBytes/s

- Arbitrary HW scaling from 160 x 120 to 1920 x 1200

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Applications

Video Streaming

The UFG-05 series frame grabbers are ideal for streaming high resolution video. The WDM driver is compatible with e.g. Microsoft® Media Encoder and other DirectShow applications. The high data transfer speed of the PCI Express bus enable creation of smooth, crisp and joggle-free video streams.

The table below provides *non-compressed* typical frame rates (fps, frames per second) captured with the UFG-05 32. Please note that these values are highly dependent on the PC hardware(*).

Resolution	fps
1920 x 1200	11
1920 x 1080	13
1600 x 1200	14
1400 x 1050	18
1280 x 1024	21
1280 x 720	29
1024 x 768	35
800 x 600	57
640 x 480	60

*) The performance record is based on tests in the following PC environment: Intel® Q6600 QuadCore 2.4 GHz, 4 GB RAM, Windows® XP Sp3

Specifications

Input	S-video and Composite on S-Video connector RGB and Component on VGA connector TMDS on DVI-D connector
Input Resolution	PAL, NTSC and SECAM for composite and S-video 640 x 480 to 1920 x 1200 for VGA, Component and DVI
Color Coding	RGB or YPbPr / YCbCr
Input Pixel Frequency	25 MHz to 165 MHz
A/D Conversion	8 bits per color
Scan Modes	Progressive, interlaced
Sync Modes	Automatically detected RGBHV, RGsB, RGBC
HW Scaling	160 x 120 to 1920 x 1200
Output Format	RGB32
Data Interface	PCI 32 and 64 / PCI-X 32 (2.2). Bus master with up to 110 MBytes/second speed
Operating Systems	Windows® XP and Vista (32 bit)
SW Interface	Standard WDM driver with configuration dialogue.
Module Size	106 x 174 mm
Power Consumption	6 W max on +3.3 V; 1 W max on +12.0 V

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