



Twister HD - is a complete high-definition paint , graphics content creation, and workflow solution, for Broadcasters. Twister runs as a standalone application, or as a plug-in for industry-leading content creation, editing, management and display systems. With Twister, artists will now have access to VDS' famous content creation tools and file transfer utilities right from within a single user environment. This includes a full suite of comprehensive paint tools and brushes, unlimited layering capabilities, and sophisticated image processing and masking tools developed specifically for Broadcasters. In addition, most Photoshop plug-ins may be run from within Twister, allowing access to hundreds of inexpensive image effect libraries currently available. All in all, Twister will bring unprecedented content creation and distribution capability to any graphics facility.



TWISTER'S EASY TO NAVIGATE USER INTERFACE - Image Courtesy of WBBH-TV

Improved Workflow

Twister provides the ability to work quickly and directly with industry products, eliminating file format conversion and aspect issues generally associated with many PC graphics applications. Twister is also very template driven, reducing creation time by reusing layer formats and other graphic elements and presets.

Rich Feature Set

Twister has a rich feature set that allows artists to create beautiful graphics quickly. Its toolset, masking capabilities, and I/O features are unsurpassed. Perhaps most importantly, Twister was designed to meet the demands of broadcast graphic artists, and to integrate seamlessly into any facility.

Choice Of Platform

Twister is available as a standalone graphics design application on Windows 2K/XP and has a developers toolkit available for those interested in incorporating Twister's paint and content creation tools as a plug-in within their Windows applications. Twister also runs standalone, or as a plug-in on Chyron hardware platforms such as Duet LE/SD/LEX, or with Lyric "software versions", as well as on Pinnacle's Thunder and Lightning systems.

Work At Any Resolution

Twister can operate in any resolution and is available with real-time paint I/O in a variety of SD and HD formats. This includes the ability to "grab on the fly" and real-time view your work in progress on an SD or HD monitor. This can include video and key, see video I/O options on back.

Advanced Map Generation Tools

Twister is now optionally available with Mapcube Media, a high resolution 3D map generation technology developed for Broadcasters. It enables the generation of complete and accurate maps in seconds. These stunning maps are rendered in layers that can easily be titled, manipulated and enhanced in Twister, then combined into daily design templates and distributed.

TWISTER^{HD} FEATURE LIST

General Features

- Intuitive User Interface
- Resolution independent
- Unlimited image & mask layers
- Paint & effects on image or mask layers
- 3D dynamic image & mask layers
- 3D dynamic image & mask paste functions
- Previews of image & masking functions
- Multi-layer file management
- Import/export Photoshop layer format
- Multi-level undo/redo
- Separate undo for image & mask layers
- Grid, safe title, panning, & zoom tools
- Extensive file importing/exporting
- Simple cross-platform connectivity
- Easy image browsing & layer loading

Paint & Color Palette Tools

- Zoom/pan canvas browse window
- Automatic alpha channel
- Over/under painting
- Full color palette & alpha channel control
- Multiple color space modes (HSV, RGB, CMYK, color pick, & color wheel)
- Scalable solid, air, graph, & custom brushes
- Paint modes including normal, multi-color, erase, smear, blur, sharpen, dust, burn, dodge, saturate, de-saturate, pick, reveal, reveal color, reveal hue, reveal luminance, reveal tint, reveal hue tint, clone, duplicate, reveal clone, reveal duplicate, paste, warp, emboss, & more...
- Pressure, jitter, noise, scatter, & fractal brush modes
- Single & radiate line paint

Mask Tools

- Assignable layer masks and work masks
- Automatic alpha channel
- Mask display modes including: colorscale, opaque, transparent, & greyscale
- Fill mask tools based on mask outline, alpha outline, or color match
- Mask select tools based on alpha, chroma, color component, color difference, field-difference, grids, hue, luminance, & safe areas
- Dynamic polygon shape maker, create geometric solid, gradated, & outline shapes
- Dynamic spline path shape maker, create freeform solid, gradated, & outline shapes

About VDS

VDS is committed to providing automation and content design tools for the broadcast, cable television, internet, and post production markets. VDS designs products for the automated control of broadcast television systems, with an emphasis on graphics-related operations, content distribution and automation, and internet-to-video and video-to-internet systems. VDS content creation systems

More Mask Tools

- Movable 3D mask layers
- Paste Mask
- Erase, add, subtract, & invert mask modes
- Adjust mask tools including: add noise, alpha, blur, contour, median, shrink, erase, key image, pattern, match colors, remove dust, remove noise, shrink, sharpen, & safe title

Effect, Filter & Color Tools

- Comprehensive image processing tools include: 5X5 filters, add edges, blur, bump map, contour, cutout, de-interlace, edge detect, erase, min/max brightness, mosaic, pattern, ripples, sharpen, & warp
- Comprehensive color correction tools with full channel control include: add noise, brightness, chroma levels, color levels, color matrix, color fill, map palette, NTSC/PAL color clip, posterize, ramp color, remove dust, remove noise, swap channels, tint equalize, match, suppression, correct, & balance
- Effects filters including: blend, bump map, dither, glass tile, marble, oil paint, painted glass, radial waves, random shear, random tile, ripples, scatter, vortex, & wave
- Blend layer reveals include: luminance, HLS hue, HLS saturation, HLS color, luminosity, add, multiply, subtract, difference, screen, overlay, soft light, darken, lighten, color dodge, color burn, & exclusion
- Adjustable texture pattern generator & noise tool
- Layer RGB channel separation, allowing any effect to be applied to a single color channel
- Paste modes including shadow, emboss, extrude, & dynamic paste effects
- Transform paste includes: 2D offset, 3D distort, & warp corners
- Supports most Photoshop plug-ins
- Blue/Green-screen keyer
- Tile
- 4-Color gradient
- Broadcast test pattern generator

Shape & Path Tools

- Dynamic polygon shape maker, create geometric solid, gradated, & outline shapes
- Dynamic spline path shape maker, create freeform solid, gradated, & outline shapes
- Dynamic Text creation tools
- Text on a curve

Utility Functions

- Resolution independent for video, film, multimedia, web or print applications
- Integrated Chyron-iNFiNiTi!, Imagestor!, Aprisa, Pinnacle-Thunder, Lightning, & Quantel File transfers
- Automatic updating of Chyron-Imagestor!, Aprisa, Pinnacle-Thunder & Lightning Database information
- Easy transfer of multi layer image files to and from Lyric or ORAD's 3Designer
- Support of Wacom's Intuos, UD, SD & Cintiq series pressure Sensitive tablets, including eraser pen
- Pressure control of all brush parameters, based on pen pressure, tilt, angle, stroke direction, or random values
- Extensive file support including Alias, Aurora.sim, Cineon, DPX, GIF, Chyron iNFiNiTi!/Max/Maxine, Chyron Imagestor!, Aprisa, JPEG, PICT, Photoshop, SGI.rgb, Wavefront RLA, Softimage, Targa, Tiff, YUV, Quantel VPB, PNG, Pinnacle G, BMP, Liberty.im, Liberty layer, & Liberty mask
- File management allowing for move, copy, delete, & rename within browser
- Browse undo levels (thumbnails) for each image & mask layer
- Browse thumbnails (image or alpha) of files on disk, with easy drag n' drop to image & mask layers
- Import/export of Photoshop files with layers
- Hot Keys
- Twister HTML help files
- Integrated Generic, Quantel, & Aprisa FTP file browser
- Support of Quantel's QXMLNet

Text Editor

- Dynamic Twister vector text tools (standard)
- Chyron Lyric Character Generator Plug-in (optional)

Developer Toolkit

- Twister also has an SDK available to those developers interested in adding Twister's sophisticated paint & graphics creation tools to other Windows-based graphics, NLE, CG, 3D, still-store or web applications in need of these types of features

Real-Time Paint I/O

- Chyron Digital Codi (SD)
- BlueFish 444 (multi format SD/HD)



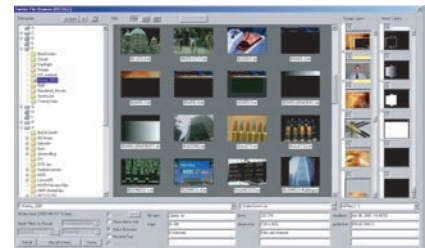
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Twister's Drag n' Drop FTP File Browser



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