

FEC 5 NEW FEATURES OVERVIEW

The following list highlights key new features and enhancements for the FEC 5 filter suite. For detailed explanations of these features, please refer to the individual filter help documentation.

General Product Enhancements

User Interface

- Adopted the intuitive BCC look and feel (For example, the usual help / preset / motion tracker / pixel chooser banners, etc.)
- Modernized UI - Nested parameter groupings and contextual controls where appropriate
- New control groups, on-screen widgets, custom controls, and many other improvements
- All parameter options are now readily available as native parameters; you no longer have to open modal dialog windows

Functionality and Performance

- Preset support including over 600 new custom presets
- 16 bit color processing
- Pixel Chooser containing powerful apply modes added to most filters
- Motion Tracker added to effects that support point picker position controls
- Many effects are optimized to improve render quality
- All effects are now MP (multi-processing capable) which translates to faster render times
- Random Seed control added to filters that produce random patterns like noise
- All filters properly handle unmultiplied alpha channels
- Many new apply (transfer) modes added since FEC 4
- Auto-animation in many of the transitions
- Full 3D Lighting controls in many filters

Effect Specific Enhancements (by filter category)

Blur and Sharpen Category

Blur

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider

Channel Blur

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider

Chroma Luma Blur

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider

Directional Blur

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider

Sharpen

Feature Enhancements

- Pixel Chooser

Soften

Feature Enhancements

- Pixel Chooser

Spin Blur

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider
- Motion Tracker control over center point

Spiral Blur

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider
- Motion Tracker control over center point

Unsharp Mask

Feature Enhancements

- Pixel Chooser
- Mix with Original slider
- Reduce Flicker control

Vector Blur

Feature Enhancements

- Apply PixelChooser menu
- Added two options to Vector Type menu
- Mix with Original slider

Zoom Blur

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider
- Motion Tracker control over center point

Color Correction Category

Brightness and Contrast

Feature Enhancements

- Pixel Chooser
- Mix with Original slider

Color Balance HLS

Feature Enhancements

- Pixel Chooser
- Mix with Original slider

Color Balance RGB

Feature Enhancements

- Pixel Chooser
- Mix with Original slider

Color Offset

Feature Enhancements

- Pixel Chooser
- Mix with Original slider

Gamma-Pedestal-Gain

Feature Enhancements

- Pixel Chooser
- Mix with Original slider

Invert

Feature Enhancements

- Pixel Chooser
- RGBA (channel options)

Replace Color

Feature Enhancements

- Pixel Chooser
- Mix with Original slider

Threshold

Feature Enhancements

- Pixel Chooser
- Softness and Clamp Softness controls
- Many new Threshold Channel options

Threshold RGB

Feature Enhancements

- Pixel Chooser
- Softness and Clamp Softness controls
- Lock Thresholds checkbox

Tint

Feature Enhancements

- Pixel Chooser

Toner

Feature Enhancements

- Pixel Chooser

Distort Category

Bend It

Feature Enhancements

- Motion Tracker for the Start or End point pickers

Bender

Feature Enhancements

- 6 new Bend Style options
- Motion Tracker for the A or B point pickers
- Pixel chooser

Power Pin

Feature Enhancements

- Pixel Chooser with Undistort control
- Motion Tracker

Split 2

Feature Enhancements

- Animatable non-modal curve graph for convenience
- Pixel Chooser
- Motion Tracker

Tiler

Feature Enhancements

- Improved anti-aliasing
- Pixel Chooser
- Motion Tracker

Water Waves

Feature Enhancements

- Improved Lighting controls
- Pixel Chooser
- Motion Tracker
- Random Seed slider

Edges Category

Burn Edges

Feature Enhancements

- Pixel Chooser
- Mix with Original slider
- Conform Alpha checkbox
- Fade Width slider

Gradient Blur

Feature Enhancements

- Gradient Cycle Group
 - Gradient Stretch
 - Gradient Cycle menu
 - Cycle Phase
- Blur Quality menu
- Blur Scale
- Gradient Ease control
- Motion Tracker for the four position points
- Pixel Chooser with ability to apply pixel chooser Pre - Effect, Post Effect, Pre and Post Effect

Power Ramp

Feature Enhancements

- Ramp Style menu (RGB, RGBA, RGBA with Apply Modes, and Alpha only)
- Ramp Cycling Group
 - Ramp Stretch control
 - Ramp Cycle menu
 - Cycle Phase control
- Several additional transfer modes
- Mix Layer control
- Ramp Ease control
- Motion Tracker for the four position points
- Pixel Chooser with a powerful "Replace Geometry" option

Sparkle Edges

Feature Enhancements

- Pixel Chooser with two apply modes
 - Post Mask
 - Scale Strength
- Mix with Original slider
- Random Seed slider

Spot Blur

Feature Enhancements

- Corner Rounding control
- Blur Quality menu
- Pixel Chooser
- Motion Tracker
- Mix with Original slider

Spot Feather

Feature Enhancements

- Pixel Chooser
- Motion Tracker
- Mix with Original slider

Spot Frame

Feature Enhancements

- Bevel Offset slider
- Pixel Chooser
- Motion Tracker
- Mix with Original slider

Spot Tatter

Feature Enhancements

- Pixel Chooser
- Motion Tracker
- Mix with Original slider

Spot Turbulence

Feature Enhancements

- Corner Rounding and Spot Angle controls
- Pixel Chooser
- Motion Tracker
- Mix with Original slider

Wiggle Edges

Feature Enhancements

- Show Wiggle Map checkbox
- Pixel Chooser with two apply modes
 - Post Mask
 - Scale Amplitude
- Motion Tracker
- Mix with Original slider
- Random Seed slider

Image Category

Alpha Map

Feature Enhancements

- Animatable non-modal curve graph for convenience
- Mix with Original slider
- Pixel Chooser
- Motion Tracker

Channel Noise

Feature Enhancements

- Pixel Chooser

Composite

Feature Enhancements

- Pixel Chooser
- Mix with Original slider
- Several additional transfer modes
- Mix Layer control

Median

Feature Enhancements

- Improved alpha channel handling
- Pixel Chooser with apply modes
- Motion Tracker

MinMax

Feature Enhancements

- Pixel Chooser
- Mix with Original slider
- Enable Smoother Interpolation checkbox
- Threshold slider
- Deviation Limit slider

Noise

Feature Enhancements

- Pixel Chooser

Simple Wire Removal

Feature Enhancements

- Pixel Chooser
- Mix with Original
- Motion Tracker for Point A or B

Light Category

Light Blast

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider
- Motion Tracker control over Light Position

Light Burst

Feature Enhancements

- Pixel Chooser with four apply modes
 - Pre-Effect
 - Post-Effect
 - Both
 - Ray Length
- Mix with Original slider
- Motion Tracker control over Source Position

Light Rays

Feature Enhancements

- Undistort slider
- Compositing menu and Apply Mode controls
- Pixel Chooser with three apply modes
 - Undistort
 - Intensity
 - Both
- Mix with Original slider
- Motion Tracker control over Center

Light Sweep

Feature Enhancements

- Motion Tracker for center point
- Pixel Chooser
- Mix with Original control

Light Tornado

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider
- Motion Tracker control over Light Position

Light Whirl

Feature Enhancements

- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both
- Mix with Original slider
- Motion Tracker control over Light Position

Spotlight

Feature Enhancements

- Offset point picker
- Motion Tracker for any of the 3-point pickers
- Pixel Chooser
- Mix with Original control

Particle Category

Ball Action

Feature Enhancements

- Perspective slider
- Lighting style menu
- Pixel Chooser with five apply modes
 - Mask Source
 - Mask Result
 - Modify Ball Size
 - Modify Scatter
 - Modify Twist Angle
- Improved Grid Spacing
- Random Seed control
- Mix with Original control

Bubbles

Feature Enhancements

- Size Spread control
- Drift Group controls
 - Drift Speed
 - Speed Spread
 - Drift Direction
 - Direction Spread
- Wobble Group
 - Wobble Amplitude
 - Amplitude Spread
 - Wobble Frequency
 - Frequency Spread
- Reflection Group
 - Reflection Type menu
 - Reflection Amount slider
 - Reflection Source menu
 - Pin Position control
 - Pin Strength
 - Invert Reflection checkbox
- Deflector Group
 - Force control
 - Radius control
 - Position control
- The Transparency Map menu
 - Flat
 - Fade In
 - Fade In Sharper
 - Fade Out
 - Fade Out Softer
- Bubble Opacity control
- Shading Type control
 - None
 - Lighten
 - Darken
- Shading control
- Random Seed
- Mix with Original
- Pixel Chooser with four apply modes
 - Mask Source
 - Mask Result
 - Modify Bubble Size
 - Modify Wobble Amplitude
- Motion tracker for 3D Light position and Reflection Source position

Drizzle

Feature Enhancements

- Light source on/off checkbox
- 3D Lighting controls
- Random Seed control
- Mix with Original
- Pixel Chooser with options for modifying ripple height, ripple displacement, and/or lighting

Hair

Feature Enhancements

- Hair Rotation control
- Growth Style menu
- Gravity Direction control
- Weight Map
- Hair controls for curl strength, number of loops, and loop tightening
- Light source on/off checkbox
- 3D Lighting controls
- Random Seed control
- Independent randomization controls for Length, Hairfall, and Position
- Mix with Original
- Pixel Chooser with ability to apply pixel chooser Pre-Effect, Post-Effect, or Both

Mr. Mercury

Feature Enhancements

- Pixel Chooser with options for modifying base blob height, lighting, displacement, or clipping the blob height
- Radius Scale slider
- Prestart control to shift timing
- Blob Displacement control
- Growth Rate control
- Light source on/off checkbox
- 3D Lighting controls
- Mix with Original slider

Particle World

Feature Enhancements

- Radius Scale
- Size Variance control
- Random Seed
- Mix with Original slider
- Motion Blur and Shutter Angle control

Particle Systems II

Feature Enhancements

- Radius Scale control
- Prestart control to shift timing
- Size Randomness control
- Mix with Original slider
- Random seed
- Advanced Sphere and Advanced Lens options with associated opacity type, shading type, and light intensity sliders
- Motion Blur and Shutter Angle control

Pixel Polly

Feature Enhancements

- Random Seed

Rain

Feature Enhancements

- Angular Spread
- Perspective
- Rain Color
- Random Seed
- Pixel Chooser
- Motion Blur and Shutter Angle control

Snow

Feature Enhancements

- Perspective control
- Drift direction
- Pixel Chooser
- Random Seed slider
- Motion Blur and Shutter Angle control

Star Burst

Feature Enhancements

- Origin point picker
- Improved Grid spacing
- Scatter Amount menu
 - Link all
 - Link XY
 - Independent
- Random seed
- Pixel chooser with two apply modes
 - Mix with Original slider
 - Post Mask with Transparency

Stylize Category

3D Relief

Feature Enhancements

- Pixel Chooser with multiple apply modes
- Improved lighting controls
- Blur Type menu
- More compositing Apply Modes
- Mix with Original slider
- Pixel Chooser with apply modes
- Motion Tracker

Blobbylize

Feature Enhancements

- Channel menu
- Displacement amount slider
- Cutoff height slider
- Light source on/off checkbox
- 3D lighting controls
- Motion Tracker for the 3D light position and pixel chooser
- Pixel Chooser

Burn Film

Feature Enhancements

- Improved controls for adjusting hole pattern
- Edge blackening can be turned off
- Mix with Original slider
- Pixel Chooser
- Motion Tracker

Emboss

Feature Enhancements

- More compositing Apply Modes
- Pixel Chooser with apply modes
- Motion Tracker

Fractal

Feature Enhancements

- More compositing Apply Modes
- Create custom color palettes
- Mix with Original slider
- Pixel Chooser
- Motion Tracker
- Color fade option

Glass

Feature Enhancements

- Light source on/off checkbox
- 3D lighting controls
- Mix with Original slider
- Motion Tracker for the 3D light position and pixel chooser
- Pixel Chooser with options for modifying ripple height, ripple displacement, and/or lighting

Glow

Feature Enhancements

- Pixel Chooser with apply modes
- Motion Tracker

Glue Gun

Feature Enhancements

- Light source on/off checkbox
- 3D lighting controls.
- Mix with Original slider
- Pixel Chooser with option to either post-mask or clip the particle heights
- Random Seed

Kaleida

Feature Enhancements

- New Symmetry styles
- Pixel Chooser with three apply modes
 - Undistort
 - Source Displacement
 - Tile Mix
- Motion Tracker
- Mix with Original slider

Repetile

Feature Enhancements

- Crop and Fill mode

Video Fragment

Feature Enhancements

- Improved Boost Opacity control
- Prescale and Randomize control
- Mix with Original slider
- Pixel Chooser
- Motion Tracker

Time Category

Time Blend

Feature Enhancements

- Clear Button
- Pixel Chooser
- Motion Tracker
- Mix with Original slider

Time Blend FX

Feature Enhancements

- Clear Button
- Pixel Chooser
- Motion Tracker
- Mix with Original slider

Wide Time

- Mix with Original slider
- Pixel Chooser

Force Motion Blur

- Mix with Original slider
- Added Pixel Chooser

Transitions Category

Glass Wipe

Feature Enhancements

- Auto-animation option
- Channel menu to control gradient height map channel
- Light controls - Light direction, color, specular, intensity, and metallic reflectance

Image Wipe

Feature Enhancements

- Mix with Original slider
- Motion Tracker
- Pixel Chooser with two apply modes
 - Mix with Original
 - Gradient

Light Wipe

Feature Enhancements

- Auto and manual animation options
- Size slider
- Motion Tracker

Radial Scale Wipe

Feature Enhancements

- Auto-animation option
- Motion Tracker

Scale Wipe

Feature Enhancements

- Pixel Chooser
- Motion Tracker for Scale Center and Pixel Chooser
- Mix with Original slider

Twister

Feature Enhancements

- Auto-animation option