

10x0	0x	x10x0x10x0x10x	10x0x10x0x10x0	x0x1	x0x1	10x0	x0x1
0x10x0	0x0x	x10x0x10x0x10x	10x0x10x0x10x0	x0x1	10x0x10x	10x0x1	10x0x1
0x0x10	0x0x10	x10x	10x0	x0x1	10x0x10x	x0x10x	10x0
0x0x10x0	0x0x10	x10x0x10x0x1	10x0x10x0x10	x0x1	0x10	0x0	x10x0x10
0x10x0	x10x0x	x10x0x10x0x10x	10x0x10x0x10	x0x1	0x10x0x10x0	x10x0x10	
10x0x1	x0x10x	x10x	10x0	x0x1	0x10x0x10x0	0x0x	
x0x10x0x10x0x1		x10x	10x0	x10x	x0x1	0x10x0x10x0x10	0x0x
x10x0x10x0		x10x0x10x0x10x	10x0x10x0x10x0	x10x	10x0	0x0x	0x0x
0x0x10		x10x0x10x0x10x	10x0x10x0x10x0	0x010x0	0x0x	0x10	0x0x



## VEEJAY 1.0 FX MANUAL

## Motion mapping



Environment:

Static background image

Description:

Motion Detection.

Technique:

The motion mapping filter analyzes the amount of activity (“movement energy”) and constructs a difference frame on the fly. The white pixels represents those pixels that have changed whilst the black pixels indicate no change.

Each incoming frame is processed and an activity value is calculated. This value is stored and averaged over a period of N frames. The final activity value is an linearly interpolated value between the previous and the new activity value.

When the motion mapping filter is running, some (1) FX will use this filter to scale a subset of their parameters using the activity as a scaling value.

To compensate for jumpy FX results, linear interpolation is used to produce a new FX frame from the previous FX result and the new FX result.

#	Parameter	Description
0	Threshold	Global threshold level of minimum change before accepting pixel
1	Activity Limit	Limit activity to an absolute value (affects linked FX)
2	Draw difference frame	Switch to Draw or Process frame
3	Histogram Length	The activity level is the average of

#### 4 Opacity

Opacity of reaction frames.

When > 0, Up to 55 frames will be recorded into memory and played once the activity level hits the limit. Recording or Playback will start when limit is hit.

#### Linked FX: (1)

Magic Mirror, Bathroom Window, Displacement Mapping, Multi Mirrors, Sinoids, Slice Window, Smear, ChameleonTV, Time Distortion TV

## ChameleonTV



By contrast, when you switch from "disappearing mode" to "appearing mode", moving objects are not shown, and a still object appears after seconds.

Environment:

Static background image

Description:

When you are still in the sight of the camera for a second, you will be vanishing into the background, and disappear. When you move again, you will appear normally.

Technique:

Accumulated subtraction/addition buffers

#	Parameter	Description
0	Mode	Disappearing = 0 Appearing = 1
1	Reset background	Resets the background

# Magic Mirrors



Description:

Like if you were looking in a funhouse mirror

#	Parameter	Description
0	X	Mirrors in X direction
1	Y	Mirrors in Y direction
2	Deg X	X curve
3	Deg Y	Y curve

## Multi Mirrors

Description:

Slice the image and apply a mirror on each slice



#	Parameter	Description
0	Mode	0=Horizontal 1=Vertical
1	Number	The number of mirrors

## Time Distortion



### Description

Distorts moving objects in the sight. When it detects a moving part, it rollbacks to an old frame around that.

### Techniques

This effect employs "time-buffer" like [QuarkTV](#) or [SpiralTV](#). (Both not in Veejay). When it detects a moving part, it shows 32 frames old pixel for that part, then it becomes fresh slowly. It applies a low-pass filter to spread the time-shift effect to neighbor pixels.

#	Parameter	Description
0	Threshold	Global threshold level



# APPENDIX I

## Acknowledgements

FX Name

ChameleonTV

TimeDistortion

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