

5.2 Clip features

5.2.1 PDF file searching for specific clip features

The PDF of the user manual may be searched to find clips that match the given CF-words ('CF'= Clip Feature).

The majority of the CF-words relate to aspects of the clip such as lighting and subject matter; those that pertain to 3D are denoted as 'CF3D-...'.

5.2.2 Excel file sorting for specific clip features

In addition to the PDF of this manual, an Excel file is provided which lists all the clips and the clip features in columns. This spreadsheet is in Excel .xls format (compatible with Excel versions from 97-2000 and later).

There are two tabs in the spreadsheet:

- the first tab has the clip set title: this has all the items listed in the manual for the clip
- the second tab "Clip features" just lists the individual clips, with the list of their clip features and individual columns for each individual clip feature.

Probably the "Clip features" tab is easiest to use to find specific clips with specific features, although every column may be sorted for specific features, by clicking on the drop-down arrow adjacent to each column heading (the examples below are from the T2V001 USA East clip set)

	A	B	C	D	E	F	G	
1			GN.01	GN.02	GN.03	GN.04	GN.05	GN.06
2	Number(s)	Time	Filename(s)	Horizontal x vertical size	Progressive / Interlaced	Video format	Bits per sample	Video compression
3	T2V001001, T2V001101, T2V001201	Bars_countdown	T2V001001_Bars_countdown_1920x1080p.yuv	1920x1080; 1280x720	'p' file suffix = progressive; 'i' YUV planar 4:8 (for each of 'HD color			
4	T2V001002, T2V001102, T2V001202	Stars_n_Stripes	T2V001002_Stars_n_Stripes_1920x1080p.yuv	1920x1080; 1280x720	'p' file suffix = progressive; 'i' YUV planar 4:8 (for each of 'US flag			
5	T2V001003, T2V001103, T2V001203	Times_Square	T2V001003_Times_Square_1920x1080p.yuv	1920x1080; 1280x720	'p' file suffix = progressive; 'i' YUV planar 4:8 (for each of 'Somewh			
6	T2V001004, T2V001104, T2V001204	Chrysler_building	T2V001004_Chrysler_building_1920x1080p.yuv	1920x1080; 1280x720	'p' file suffix = progressive; 'i' YUV planar 4:8 (for each of 'Slow zo			
7	T2V001005, T2V001105, T2V001205	Display	T2V001005_Display_1920x1080p.yuv	1920x1080; 1280x720	'p' file suffix = progressive; 'i' YUV planar 4:8 (for each of 'Large o			

Click arrow to get drop-down list of items in this column (example below for 'SS.01 People')

AC	AD	AE	AF
C.10	LC.11	SS.01	SS.02
-	Some	(All) (Top 10 ...) (Custom...)	One
-	-	Few	-
-	-	Many	-
-	-	One	-
-	-	People	-

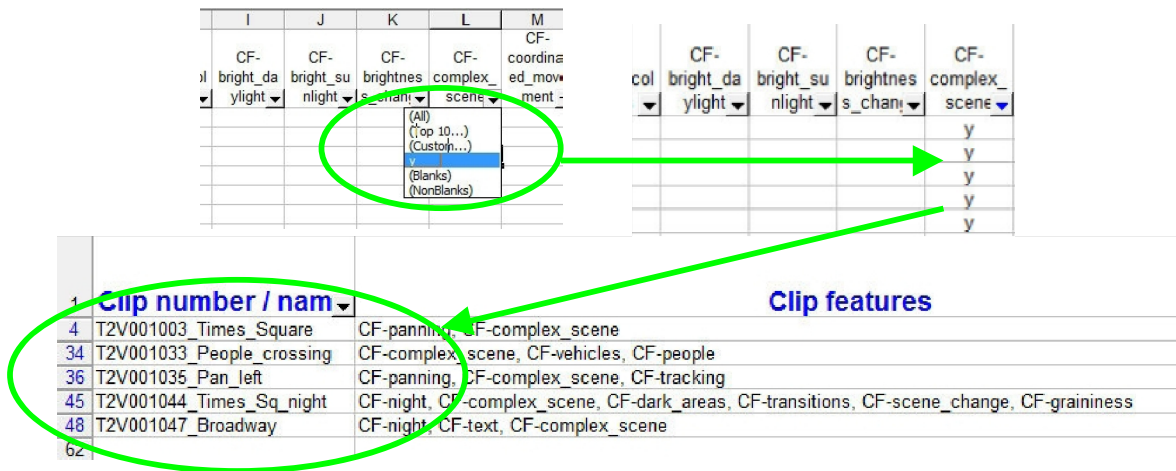
Select 'One' to show only clips with 'One' under 'SS.01 People'

Note that this first tab on the spreadsheet is roughly 100 columns wide (from column A to column CZ), so it may be helpful to use the 'Freeze Panes' feature (on the 'Window' menu in Excel 2000 and 2003) or split windows to keep the clip number visible.

The "Clip features" tab appears and can be sorted as indicated below:

A	B	C	D	E	F	G
1	Clip number / name	Clip features	CF-animal	CF-angl	CF-bandin	CF-black_bac
2	T2V001001_Bars_countdown	CF-text, CF-dark_areas, CF-patterns, CF-black_background, CF-round_objects, CF-transitions, CF-large_monochromatic				y
3	T2V001002_Stars_n_Stripes	CF-bright_colours, CF-large_monochromatic, CF-movement_across				
4	T2V001003_Times_Square	CF-panning, CF-complex_scene				
5	T2V001004_Chrysler_building	CF-zoom_in, CF-fine_details, CF-low_contrast, CF-dull_daylight				
6	T2V001005_Display	CF-high_contrast, CF-rapid_changes				
7	T2V001006_Smiling	CF-faces, CF-people				
8	T2V001007_Traffic_duty	CF-faces, CF-text, CF-people				
9	T2V001008_Empire_State	CF-patterns, CF-scroll, CF-faces, CF-hand_hold				
10	T2V001009_FDNY	CF-out_of_focus, CF-vehicles				
11	T2V001010_Checked_caps	CF-people, CF-movement_out, CF-patterns				
12	T2V001011_Gold_statue	CF-water, CF-patterns, CF-large_monochromatic				
13	T2V001012_Eyewitness_news	CF-moving_text				

Selecting a drop-down menu and clicking on 'y' reduces the list to those that have that CF value:



5.2.3 List of 'CF' ('clip features') words used

The PDF of the user manual may be searched to find clips that match the given CF-words ('CF'= Clip Feature).

3D specific:

- CF3D-effect_mild
- CF3D-effect_medium
- CF3D-effect_strong
- CF3D-effect_excessive
- CF3D-peak_negative
- CF3D-peak_positive
- CF3D-effect_change
- CF3D-perception_hard
- CF3D-viewer_discomfort
- CF3D-window_violation
- CF3D-diff_colour
- CF3D-diff_elements
- CF3D-diff_geometry
- CF3D-diff_not_genlocked
- CF3D-Sky_spec_yes
- CF3D-Sky_spec_no
- CF3D-zoom
- CF3D-rotation
- CF3D-fast_movement
- CF3D-contrast
- CF3D-grain

Meanings of the 3D-specific CF-words above:

CF3D-effect_mild CF3D-effect_medium CF3D-effect_strong CF3D-effect_excessive	How strong the 3D effect in general is perceived to be for the clip, when viewed with the screen size and distance as described in section 3.2.10 At least one of these is stated for every clip
CF3D-effect_change	The depth of the 3D effect changes during the clip
CF3D-peak_negative CF3D-peak_positive	Transitory peak negative or positive disparity which exceeds the Sky specification (see section 3.2.16)
CF3D-perception_hard	3D is hard to perceive either due to scene contents (differences left to right) or lighting differences (e.g. flare from sunlight in one side only) or random nature of scene contents

CF3D-viewer_discomfort	Clips where it is considered that viewer discomfort might be caused, e.g. due to differences left to right, or excessive disparity that continues too long, or window violation(s)
CF3D-window_violation	Where a significant object appears in one side and not the other for a sufficiently long time as to be noticeable
CF3D-diff_colour	Where there is a colour difference between left and right
CF3D-diff_elements	Where there are some elements within the scene which are different between left and right, e.g. due to reflections
CF3D-diff_geometry	Where the geometry is different left to right e.g. due to differential zoom; optical effects
CF3D-diff_not_genlocked	The cameras have not been 'genlocked' and there may be some very minor artefacts as a result (see section 3.2.13)
CF3D-Sky_spec_yes CF3D-Sky_spec_no	Whether or not the clip meets the Sky specification (see section 3.2.16) either for average or transitory negative and positive disparity One of these is stated for every clip
CF3D-zoom	Zooming in or out
CF3D-rotation	Effect on 3D of rotation
CF3D-fast_movement	Effect on 3D of fast movement
CF3D-contrast	High or low contrast in both views or contrast differences between left and right could affect 3D
CF3D-grain	Graininess of sequence could affect 3D

General:

CF-bright_sunlight	CF-bright_daylight	CF-sunrise_sunset
CF-dull_daylight	CF-brightness_change	CF-shaded
CF-indoors_bright	CF-indoors_dark	CF-night
CF-twilight	CF-light_picture	CF-dark_picture
CF-high_contrast	CF-black_background	CF-dark_areas
CF-low_contrast	CF-white_background	CF-monochromatic
CF-people	CF-vehicles	CF-water
CF-buildings	CF-faces	CF-text
CF-trees	CF-leaves_grass	CF-crowd
CF-sky	CF-clouds	CF-complex_scene
CF-patterns	CF-reflections	CF-round_objects
CF-round	CF-animals	
CF-lines	CF-moire	CF-moving_text
CF-fine_details	CF-highlights	CF-light_sky
CF-graininess	CF-out_of_focus	CF-depth_of_field

CF-bright_colours	CF-dull_colours	CF-large_monochromatic
CF-movement_in	CF-movement_out	CF-movement_up/down
CF-movement_across	CF-random_movement	CF-diagonal_movement
CF-coordinated_movement	CF-from_above	CF-hand_held
CF-low_subject_movement	CF-rapid_movement	CF-rapid_changes
CF-slow_motion	CF-speeded_up	
CF-fast_track_pan	CF-panning	CF-scroll
CF-tracking	CF-tracking_following	CF-jerky
CF-transition	CF-transitions	CF-fade
CF-zoom_in	CF-zoom_out	CF-rapid_zoom
CF-angled	CF- subjects_behind_foreground	CF-banding
CF-sound_vehicles	CF-sound_talking	CF-sound_water
CF-sound_other	CF-wind	CF-music

6. Detailed information on individual clips

The following pages provide detailed information on the clips in this set.

6.1 Detailed description of each clip

This section contains detailed descriptions of each video clip, and the associated audio.

70 features are listed for each clip: the purpose of providing these descriptions is to make it easier to select specific clips for specific features.

Therefore even if a characteristic does occur in a particular clip, this is not necessarily listed where it is not a prominent feature and/or where it is believed that the clip would not be selected for this particular feature.

Clearly to some extent these descriptions and selections are subjective, and the user is likely to come to their own conclusions as to which are most relevant to their particular codec / situation: the descriptions provided are intended to be an appropriate starting point.

T3D023001_Monorail



GN.01	Filename(s)	T3D023001_Monorail_1920x1080p30_8b_P420_l/r.yuv
GN.02	Horizontal x vertical size	1920x1080
GN.03	Progressive / Interlaced	Progressive
GN.04	Video format	YUV planar 4:2:0
GN.05	Bits per sample	8 (for each of Y, U, V)
GN.06	Video description	White monorail trains coming and going
GN.07	Principal purposes	Straightforward codec efficiency test in reasonably complex scene
GN.08	3D notes	Optical lens geometry not perfect left-right, but does not adversely affect 3D
GN.09	Duration (mins:secs:frames)	00:25:05
GN.10	Number of frames	755
GN.11	File size on disk (MB), combined L+R	4,700
GN.12	3D CF-words	CF3D-effect_mild, CF3D-Sky_spec_yes
GN.13	CF-words	CF-bright_colours, CF-bright_sunlight, CF-buildings, CF-complex_scene, CF-fade, CF-fine_details, CF-large_monochromatic, CF-light_sky, CF-light_picture, CF-lines, CF-moire, CF-movement_across, CF-movement_in, CF-movement_out, CF-patterns, CF-rapid_changes, CF-scene_change, CF-sky, CF-transition, CF-vehicles
GN.14	Associated audio types	MPEG1 Layer II 48kHz 16bit stereo 384kbps Constant Bit Rate : 16bit uncompressed 48kHz stereo WAV
GN.15	Associated audio filenames	T3a023x001_Monorail_act_MP1LII.mpa : T3a023y001_Monorail_act_unc.wav
GN.16	Associated audio description	Actual audio recorded with video
GN.17	Audio duration	Same as video (video played at 59.94fps)

Clip features	Details		
		3DN.09 Geometric correction	None
		3DN.10 Floating window used	No
3D DATA			
3DN.01 Ave. Negative disparity	0.0%	3D EVALUATION	
3DN.02 Ave. Positive disparity	0.3%	3EV.01 3D effect	Mild
3DN.03 Ave. within Sky spec (-1% / +2%)	Yes	3EV.02 Change in 3D effect	-
3DN.04 Peak Negative disparity	-0.2%	3EV.03 Peak negative or positive disparity	-
3DN.05 Peak Positive disparity	0.6%	3EV.04 3D perception hard	-
3DN.06 Peak within Sky spec (-2.5% / +4%)	Yes	3EV.05 3D viewer discomfort	-
3DN.07 Interocular (mm)	40-65	3EV.06 3D window violation	-
3DN.08 Colour corrected	Yes	3EV.07 3D diff. Left to Right	-

3EV.08 Comply with Sky spec Yes

3EV.09 3D possibly affected by -

LIGHT CONDITIONS

LC.01 Bright sunlight All

LC.02 Bright daylight -

LC.03 Dull daylight -

LC.04 Shaded areas -

LC.05 Indoors bright -

LC.06 Indoors dark -

LC.07 Twilight -

LC.08 Sunrise/sunset -

LC.09 Night -

LC.10 Backlighting -

LC.11 Large brightness change -

SCENE SUBJECTS

SS.01 People Deep

SS.02 Faces -

SS.03 Vehicles Some

SS.04 Buildings -

SS.05 Trees One

SS.06 Text One

SS.07 Talking head -

SS.08 Water Some slow

SS.09 Leaves/grass -

SS.10 Sky Monochromatic blue

SS.11 Clouds -

SS.12 Patterns -

SS.13 Round/curved objects -

SCENE PROPERTIES

SP.01 Depth of field Deep

SP.02 Out-of-focus -

SP.03 Fine lines/moiré patterns Some

SP.04 Reflections -

SP.05 Scene change One

SP.06 Fades One

SP.07 Transitions -

SP.08 Slow/fast motion Some slow

COLOURS & CONTRAST

CC.01 Light picture All

CC.02 Dark picture -

CC.03 Bright colours Most

CC.04 Dull colours -

CC.05 Fine detail/moiré patterns Areas

CC.06 High contrast areas -

CC.07 Large monochromatic areas One (sky)

CC.08 Graininess -

CC.09 Black background -

CC.10 White background -

GLOBAL MOTION

GM.01 Fast track/pan -

GM.02 Tracking in/out -

GM.03 Tracking -

GM.04 Panning -

GM.05 Tracking (following) -

GM.06 Fast scroll -

GM.07 Scroll -

GM.08 Angled -

GM.09 Zoom in -

GM.10 Zoom out -

GM.11 Hand-held camera -

SUBJECT MOTION

SM.01 Movement out of picture Some, slow

SM.02 Movement into picture Some, slow

SM.03 Movement across picture Some, slow

SM.04 Movement up/down -

SM.05 Diagonal movement -

SM.06 Subjects behind foreground objects -

SM.07 Low movement -

SOUND CONTENT

SC.01 Talking -

SC.02 Movement -

SC.03 Vehicles -

SC.04 Wind -

T3D023 USA Europe

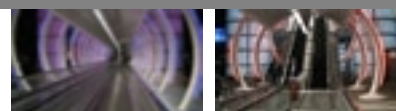


SC.05	Music	-
SC.06	Background	Traffic
SC.07	Other	-

SOUND CHARACTERISTICS

SH.01	Mono/ stereo	Stereo
SH.02	Average volume	Quiet
SH.03	Level changes	-
SH.04	Clear/ distorted	Clear

T3D023002_Night_travelator



GN.01	Filename(s)	T3D023002_Night_travelator_1920x1080p30_8b_P420_l/r.yuv
GN.02	Horizontal x vertical size(s)	1920x1080
GN.03	Progressive / Interlaced	Progressive
GN.04	Video format	YUV planar 4:2:0
GN.05	Bits per sample	8 (for each of Y, U, V)
GN.06	Video description	Night time riding a travelator
GN.07	Principal purposes	Codec stress test with lots of moire fringing and irregular movement, with strong 3D depth and 2D depth cues
GN.08	3D notes	Excellent 3D effect throughout and especially at the end
GN.09	Duration (mins:secs:frames)	01:21:16
GN.10	Number of frames	2446
GN.11	File size on disk (MB), combined L+R	15,220
GN.12	3D CF-words	CF3D-effect_medium, CF3D-effect_strong, CF3D-peak_negative, CF3D-peak_positive, CF3D-Sky_spec_no
GN.13	CF words	CF-black_background, CF-bright_colours, CF-complex_scene, CF-coordinated_movement, CF-dark_areas, CF-faces, CF-fine_details, CF-hand_held, CF-high_contrast, CF-indoors_bright, CF-lines, CF-movement_in, CF-night, CF-patterns, CF-people, CF-round, CF-sound_talking, CF-sound_vehicles, CF-sound_water, CF-tracking
GN.14	Associated audio types	MPEG1 Layer II 48kHz 16bit stereo 384kbps Constant Bit Rate : 16bit uncompressed 48kHz stereo WAV
GN.15	Associated audio filenames	T3a023x002_Night_travelator_act_MP1LII.mpa : T3a023y002_Night_travelator_act_unc.wav
GN.16	Associated audio description	Actual audio recorded with video
GN.17	Audio duration	Same as video (video played at 59.94fps)

Clip features	Details		
3D DATA		3DN.08	Colour corrected Yes
3DN.01	Ave. Negative disparity -1.3%	3DN.09	Geometric correction None
3DN.02	Ave. Positive disparity 0.2%	3DN.10	Floating window used No
3DN.03	Ave. within Sky spec (-1% / +2%) No	3D EVALUATION	
3DN.04	Peak Negative disparity -2.9%	3EV.01	3D effect Medium, Strong
3DN.05	Peak Positive disparity 0.4%	3EV.02	Change in 3D effect -
3DN.06	Peak within Sky spec (-2.5% / +4%) No	3EV.03	Peak negative or positive disparity Peak negative & peak positive
3DN.07	Interocular (mm) 65	3EV.04	3D perception hard -

3EV.05	3D viewer discomfort	-	SP.06	Fades	-
3EV.06	3D window violation	-	SP.07	Transitions	-
3EV.07	3D diff. Left to Right	-	SP.08	Slow/fast motion	Continuous slow
3EV.08	Comply with Sky spec	No			
3EV.09	3D possibly affected by	-			
LIGHT CONDITIONS			COLOURS & CONTRAST		
LC.01	Bright sunlight	-	CC.01	Light picture	Most
LC.02	Bright daylight	-	CC.02	Dark picture	Areas
LC.03	Dull daylight	-	CC.03	Bright colours	Areas
LC.04	Shaded areas	Some	CC.04	Dull colours	-
LC.05	Indoors bright	Some	CC.05	Fine detail/moiré patterns	Lots
LC.06	Indoors dark	-	CC.06	High contrast areas	Lots
LC.07	Twilight	Some	CC.07	Large monochromatic areas	-
LC.08	Sunrise/sunset	-	CC.08	Graininess	-
LC.09	Night	Some	CC.09	Black background	-
LC.10	Backlighting	-	CC.10	White background	-
LC.11	Large brightness change	-	GLOBAL MOTION		
SCENE SUBJECTS			GM.01	Fast track/pan	-
SS.01	People	Several	GM.02	Tracking in/out	Slow in
SS.02	Faces	Several	GM.03	Tracking	-
SS.03	Vehicles	-	GM.04	Panning	-
SS.04	Buildings	-	GM.05	Tracking (following)	-
SS.05	Trees	-	GM.06	Fast scroll	-
SS.06	Text	-	GM.07	Scroll	-
SS.07	Talking head	-	GM.08	Angled	-
SS.08	Water	-	GM.09	Zoom in	-
SS.09	Leaves/grass	-	GM.10	Zoom out	-
SS.10	Sky	-	GM.11	Hand-held camera	Smooth
SS.11	Clouds	-	SUBJECT MOTION		
SS.12	Patterns	-	SM.01	Movement out of picture	Some, slow
SS.13	Round/curved objects	-	SM.02	Movement into picture	Lots, slow
SCENE PROPERTIES			SM.03	Movement across picture	-
SP.01	Depth of field	Deep	SM.04	Movement up/down	-
SP.02	Out-of-focus	-	SM.05	Diagonal movement	-
SP.03	Fine lines / moiré patterns	Lots	SM.06	Subjects behind foreground objects	-
SP.04	Reflections	-	SM.07	Low movement	-
SP.05	Scene change	-	SOUND CONTENT		
			SC.01	Talking	Some

SC.02	Movement	-
SC.03	Vehicles	-
SC.04	Wind	-
SC.05	Music	-
SC.06	Background	Water
SC.07	Other	Squeaking

SOUND CHARACTERISTICS

SH.01	Mono/ stereo	Stereo
SH.02	Average volume	Quiet
SH.03	Level changes	-
SH.04	Clear/ distorted	Distorted