Commands used in terminal

```
# Update and upgrade the raspberry pi firmware
   Sudo apt-get update
   Sudo apt-get upgrade
   #Ensure raspberry pi cam is switched on within raspi config.
         Sudo raspi-config (Camera – Enable)
   #update raspberry pi cam firmware (optional)
         sudo apt-get install rpi-update
         sudo rpi-update
         sudo reboot
#Download the Motion-mmal.tar.gz
   Sudo apt-get install motion-mmal
#Download jpeg library (libjpeg62)
   Sudo apt-get install libjpeg62
#Access the (motion-mmalcam.conf) Motion configuration file
Sudo nano /etc/motion/motion-mmalcam.conf
→below are the default mmalcam.config file settings.
# Daemon
# Start in daemon (background) mode and release terminal (default: off)
daemon off
```

| # File to store the process ID, also called pid file. (default: not defined) |
|--|
| process_id_file /var/run/motion/motion.pid |
| |
| |
| # Basic Setup Mode |
| *************************************** |
| |
| # Start in Setup-Mode, daemon disabled. (default: off) |
| setup_mode off |
| |
| |
| # Use a file to save logs messages, if not defined stderr and syslog is used. (default: not defined) |
| logfile /home/pi/motion.log |
| |
| # Level of log messages [19] (EMR, ALR, CRT, ERR, WRN, NTC, INF, DBG, ALL). (default: 6 / NTC) |
| log_level 5 |
| |
| # Filter to log messages by type (COR, STR, ENC, NET, DBL, EVT, TRK, VID, ALL). (default: ALL) |
| log_type all |
| ·· |
| ####################################### |
| # Capture device options |
| *************************************** |
| |

```
# for FreeBSD default is /dev/bktr0
#videodevice /dev/video0
# v4l2_palette allows you to choose a palette to be used by motion
# to capture from those supported by your videodevice. (default: 17)
# E.g. if your videodevice supports both V4L2 PIX FMT SBGGR8 and
# V4L2_PIX_FMT_MJPEG then motion will by default use V4L2_PIX_FMT_MJPEG.
# Setting v4l2 palette to 2 forces motion to use V4L2 PIX FMT SBGGR8
# instead.
# Values:
# V4L2_PIX_FMT_SN9C10X:0 'S910'
# V4L2_PIX_FMT_SBGGR16:1 'BYR2'
#V4L2 PIX FMT SBGGR8: 2 'BA81'
# V4L2_PIX_FMT_SPCA561: 3 'S561'
#V4L2_PIX_FMT_SGBRG8: 4 'GBRG'
#V4L2_PIX_FMT_SGRBG8:5 'GRBG'
# V4L2_PIX_FMT_PAC207 : 6 'P207'
#V4L2 PIX FMT PJPG :7 'PJPG'
#V4L2_PIX_FMT_MJPEG: 8 'MJPEG'
#V4L2_PIX_FMT_JPEG : 9 'JPEG'
# V4L2 PIX FMT RGB24 : 10 'RGB3'
# V4L2_PIX_FMT_SPCA501: 11 'S501'
# V4L2_PIX_FMT_SPCA505 : 12 'S505'
```

Videodevice to be used for capturing (default /dev/video0)

```
# V4L2_PIX_FMT_SPCA508 : 13 'S508'
# V4L2_PIX_FMT_UYVY : 14 'UYVY'
# V4L2_PIX_FMT_YUYV : 15 'YUYV'
# V4L2 PIX FMT YUV422P: 16 '422P'
# V4L2_PIX_FMT_YUV420 : 17 'YU12'
v4l2 palette 17
# Tuner device to be used for capturing using tuner as source (default /dev/tuner0)
# This is ONLY used for FreeBSD. Leave it commented out for Linux
; tunerdevice /dev/tuner0
# The video input to be used (default: -1)
# Should normally be set to 0 or 1 for video/TV cards, and -1 for USB cameras
input -1
# The video norm to use (only for video capture and TV tuner cards)
# Values: 0 (PAL), 1 (NTSC), 2 (SECAM), 3 (PAL NC no colour). Default: 0 (PAL)
norm 0
# The frequency to set the tuner to (kHz) (only for TV tuner cards) (default: 0)
frequency 0
# Rotate image this number of degrees. The rotation affects all saved images as
# well as movies. Valid values: 0 (default = no rotation), 90, 180 and 270.
```

```
# Image width (pixels). Valid range: Camera dependent, default: 352
width 1024
# Image height (pixels). Valid range: Camera dependent, default: 288
height 576
# Maximum number of frames to be captured per second.
# Valid range: 2-100. Default: 100 (almost no limit).
framerate 2
# Minimum time in seconds between capturing picture frames from the camera.
# Default: 0 = disabled - the capture rate is given by the camera framerate.
# This option is used when you want to capture images at a rate lower than 2 per second.
minimum_frame_time 0
# URL to use if you are using a network camera, size will be autodetected (incl http:// ftp:// mjpg://
or file:///)
# Must be a URL that returns single jpeg pictures or a raw mjpeg stream. Default: Not defined
;netcam_url http://127.0.0.1/cgi-bin/raspicam.sh
# Username and password for network camera (only if required). Default: not defined
# Syntax is user:password
; netcam_userpass value
```

```
cameras.
# off: The historical implementation using HTTP/1.0, closing the socket after each http request.
# force: Use HTTP/1.0 requests with keep alive header to reuse the same connection.
# on: Use HTTP/1.1 requests that support keep alive as default.
# Default: off
netcam_keepalive off
# URL to use for a netcam proxy server, if required, e.g. "http://myproxy".
# If a port number other than 80 is needed, use "http://myproxy:1234".
# Default: not defined
; netcam_proxy value
# Set less strict jpeg checks for network cameras with a poor/buggy firmware.
# Default: off
netcam_tolerant_check off
# Let motion regulate the brightness of a video device (default: off).
# The auto_brightness feature uses the brightness option as its target value.
# If brightness is zero auto_brightness will adjust to average brightness value 128.
# Only recommended for cameras without auto brightness
auto_brightness off
# Set the initial brightness of a video device.
# If auto_brightness is enabled, this value defines the average brightness level
# which Motion will try and adjust to
```

The setting for keep-alive of network socket should improve performance on compatible net

```
# Valid range 0-255, default 0 = disabled
brightness 0
# Set the contrast of a video device.
# Valid range 0-255, default 0 = disabled
contrast 0
# Set the saturation of a video device.
# Valid range 0-255, default 0 = disabled
saturation 0
# Set the hue of a video device (NTSC feature).
# Valid range 0-255, default 0 = disabled
hue 0
# File "camera" support - read raw YUV data from a file
#filecam_path /home/pi/test-cap/motion-mmal.capture
# OpenMax/MMAL camera support for Raspberry Pi
mmalcam_name vc.ril.camera
#mmalcam_control_params
```

```
# Switch this setting to "on" to use the still image mode of the Pi's camera
# instead of video. This gives a wider field of view, but requires
# a much slower frame-rate to achieve exposure stability
# (e.g. 0.25 fps or slower). You can use the minimum_frame_time
# parameter above to achieve this
mmalcam_use_still off
# Round Robin (multiple inputs on same video device name)
# Number of frames to capture in each roundrobin step (default: 1)
roundrobin_frames 1
# Number of frames to skip before each roundrobin step (default: 1)
roundrobin_skip 1
# Try to filter out noise generated by roundrobin (default: off)
switchfilter off
```

#mmalcam_raw_capture_file /home/pi/motion-mmal.capture

```
# Motion Detection Settings:
# Threshold for number of changed pixels in an image that
# triggers motion detection (default: 1500)
threshold 1500
# Automatically tune the threshold down if possible (default: off)
threshold_tune off
# Noise threshold for the motion detection (default: 32)
noise_level 32
# Automatically tune the noise threshold (default: on)
noise_tune on
# Despeckle motion image using (e)rode or (d)ilate or (l)abel (Default: not defined)
# Recommended value is EedDl. Any combination (and number of) of E, e, d, and D is valid.
# (I)abeling must only be used once and the 'I' must be the last letter.
# Comment out to disable
despeckle_filter EedDl
# Detect motion in predefined areas (1 - 9). Areas are numbered like that: 1 2 3
# A script (on_area_detected) is started immediately when motion is
                                                              456
```

```
# detected in one of the given areas, but only once during an event.
                                                                       789
# One or more areas can be specified with this option. Take care: This option
# does NOT restrict detection to these areas! (Default: not defined)
; area detect value
# PGM file to use as a sensitivity mask.
# Full path name to. (Default: not defined)
; mask_file value
# Dynamically create a mask file during operation (default: 0)
# Adjust speed of mask changes from 0 (off) to 10 (fast)
smart mask speed 0
# Ignore sudden massive light intensity changes given as a percentage of the picture
# area that changed intensity. Valid range: 0 - 100, default: 0 = disabled
lightswitch 0
# Picture frames must contain motion at least the specified number of frames
# in a row before they are detected as true motion. At the default of 1, all
# motion is detected. Valid range: 1 to thousands, recommended 1-5
minimum motion frames 1
# Specifies the number of pre-captured (buffered) pictures from before motion
# was detected that will be output at motion detection.
# Recommended range: 0 to 5 (default: 0)
```

```
# Do not use large values! Large values will cause Motion to skip video frames and
# cause unsmooth movies. To smooth movies use larger values of post_capture instead.
pre_capture 0
# Number of frames to capture after motion is no longer detected (default: 0)
post_capture 0
# Event Gap is the seconds of no motion detection that triggers the end of an event.
# An event is defined as a series of motion images taken within a short timeframe.
# Recommended value is 60 seconds (Default). The value -1 is allowed and disables
# events causing all Motion to be written to one single movie file and no pre_capture.
# If set to 0, motion is running in gapless mode. Movies don't have gaps anymore. An
# event ends right after no more motion is detected and post_capture is over.
event_gap 60
# Maximum length in seconds of a movie
# When value is exceeded a new movie file is created. (Default: 0 = infinite)
max_movie_time 0
# Always save images even if there was no motion (default: off)
emulate_motion off
```

Image File Output

```
# Output 'normal' pictures when motion is detected (default: on)
# Valid values: on, off, first, best, center
# When set to 'first', only the first picture of an event is saved.
# Picture with most motion of an event is saved when set to 'best'.
# Picture with motion nearest center of picture is saved when set to 'center'.
# Can be used as preview shot for the corresponding movie.
output pictures on
# Output pictures with only the pixels moving object (ghost images) (default: off)
output debug pictures off
# The quality (in percent) to be used by the jpeg compression (default: 75)
quality 75
# Type of output images
# Valid values: jpeg, ppm (default: jpeg)
picture_type jpeg
# FFMPEG related options
# Film (movies) file output, and deinterlacing of the video input
# The options movie_filename and timelapse_filename are also used
# by the ffmpeg feature
```

```
# Use ffmpeg to encode movies in realtime (default: off)
ffmpeg output movies on
# Use ffmpeg to make movies with only the pixels moving
# object (ghost images) (default: off)
ffmpeg_output_debug_movies off
# Use ffmpeg to encode a timelapse movie
# Default value 0 = off - else save frame every Nth second
ffmpeg_timelapse 0
# The file rollover mode of the timelapse video
# Valid values: hourly, daily (default), weekly-sunday, weekly-monday, monthly, manual
ffmpeg_timelapse_mode daily
# Bitrate to be used by the ffmpeg encoder (default: 400000)
# This option is ignored if ffmpeg_variable_bitrate is not 0 (disabled)
ffmpeg bps 500000
# Enables and defines variable bitrate for the ffmpeg encoder.
# ffmpeg bps is ignored if variable bitrate is enabled.
# Valid values: 0 (default) = fixed bitrate defined by ffmpeg_bps,
# or the range 2 - 31 where 2 means best quality and 31 is worst.
```

```
# Codec to used by ffmpeg for the video compression.
# Timelapse mpegs are always made in mpeg1 format independent from this option.
# Supported formats are: mpeg1 (ffmpeg-0.4.8 only), mpeg4 (default), and msmpeg4.
# mpeg1 - gives you files with extension .mpg
# mpeg4 or msmpeg4 - gives you files with extension .avi
# msmpeg4 is recommended for use with Windows Media Player because
# it requires no installation of codec on the Windows client.
# swf - gives you a flash film with extension .swf
# flv - gives you a flash video with extension .flv
# ffv1 - FF video codec 1 for Lossless Encoding (experimental)
# mov - QuickTime (testing)
# ogg - Ogg/Theora (testing)
ffmpeg video codec mpeg4
# Use ffmpeg to deinterlace video. Necessary if you use an analog camera
# and see horizontal combing on moving objects in video or pictures.
# (default: off)
ffmpeg deinterlace off
# SDL Window
```

Number of motion thread to show in SDL Window (default: 0 = disabled) #sdl_threadnr 0 # External pipe to video encoder # Replacement for FFMPEG builtin encoder for ffmpeg output movies only. # The options movie filename and timelapse filename are also used # by the ffmpeg feature # Bool to enable or disable extpipe (default: off) use extpipe off # External program (full path and opts) to pipe raw video to # Generally, use '-' for STDIN... ;extpipe mencoder -demuxer rawvideo -rawvideo w=320:h=240:i420 -ovc x264 -x264encopts bframes=4:frameref=1:subq=1:scenecut=-1:nob_adapt:threads=1:keyint=1000:8x8dct:vbv_bufsize=4000:crf=24:partitions=i8x8,i4x4:vbv_maxr ate=800:no-chroma-me -vf denoise3d=16:12:48:4,pp=lb -of avi -o %f.avi - -fps %fps # Snapshots (Traditional Periodic Webcam File Output) # Make automated snapshot every N seconds (default: 0 = disabled)

```
# Text Display
# %Y = year, %m = month, %d = date,
# %H = hour, %M = minute, %S = second, %T = HH:MM:SS,
# %v = event, %q = frame number, %t = thread (camera) number,
# %D = changed pixels, %N = noise level, \n = new line,
# %i and %J = width and height of motion area,
# %K and %L = X and Y coordinates of motion center
# %C = value defined by text_event - do not use with text_event!
# You can put quotation marks around the text to allow
# leading spaces
# Locate and draw a box around the moving object.
# Valid values: on, off, preview (default: off)
# Set to 'preview' will only draw a box in preview_shot pictures.
locate motion mode off
# Set the look and style of the locate box if enabled.
# Valid values: box, redbox, cross, redcross (default: box)
# Set to 'box' will draw the traditional box.
# Set to 'redbox' will draw a red box.
```

```
# Set to 'cross' will draw a little cross to mark center.
# Set to 'redcross' will draw a little red cross to mark center.
locate_motion_style box
# Draws the timestamp using same options as C function strftime(3)
# Default: %Y-%m-%d\n%T = date in ISO format and time in 24 hour clock
# Text is placed in lower right corner
text_right %Y-%m-%d\n%T-%q
# Draw a user defined text on the images using same options as C function strftime(3)
# Default: Not defined = no text
# Text is placed in lower left corner
; text_left CAMERA %t
# Draw the number of changed pixed on the images (default: off)
# Will normally be set to off except when you setup and adjust the motion settings
# Text is placed in upper right corner
text_changes off
# This option defines the value of the special event conversion specifier %C
# You can use any conversion specifier in this option except %C. Date and time
# values are from the timestamp of the first image in the current event.
# Default: %Y%m%d%H%M%S
# The idea is that %C can be used filenames and text_left/right for creating
# a unique identifier for each event.
```

```
text_event %Y%m%d%H%M%S
```

```
# Draw characters at twice normal size on images. (default: off) text_double on
```

```
# Text to include in a JPEG EXIF comment
```

May be any text, including conversion specifiers.

The EXIF timestamp is included independent of this text.

;exif_text %i%J/%K%L

Target Directories and filenames For Images And Films

For the options snapshot_, picture_, movie_ and timelapse_filename

you can use conversion specifiers

%Y = year, %m = month, %d = date,

%H = hour, %M = minute, %S = second,

%v = event, %q = frame number, %t = thread (camera) number,

%D = changed pixels, %N = noise level,

%i and %J = width and height of motion area,

%K and %L = X and Y coordinates of motion center

%C = value defined by text_event

Quotation marks round string are allowed.

- # Target base directory for pictures and films
- # Recommended to use absolute path. (Default: current working directory)

target_dir /home/pi

- # File path for snapshots (jpeg or ppm) relative to target_dir
- # Default: %v-%Y%m%d%H%M%S-snapshot
- # Default value is equivalent to legacy oldlayout option
- # For Motion 3.0 compatible mode choose: %Y/%m/%d/%H/%M/%S-snapshot
- # File extension .jpg or .ppm is automatically added so do not include this.
- # Note: A symbolic link called lastsnap.jpg created in the target_dir will always
- # point to the latest snapshot, unless snapshot_filename is exactly 'lastsnap'
- snapshot_filename %v-%Y%m%d%H%M%S-snapshot
- # File path for motion triggered images (jpeg or ppm) relative to target_dir
- # Default: %v-%Y%m%d%H%M%S-%q
- # Default value is equivalent to legacy oldlayout option
- # For Motion 3.0 compatible mode choose: %Y/%m/%d/%H/%M/%S-%q
- # File extension .jpg or .ppm is automatically added so do not include this
- # Set to 'preview' together with best-preview feature enables special naming
- # convention for preview shots. See motion guide for details
- picture_filename %v-%Y%m%d%H%M%S-%q
- # File path for motion triggered ffmpeg films (movies) relative to target_dir
- # Default: %v-%Y%m%d%H%M%S
- # Default value is equivalent to legacy oldlayout option

- # For Motion 3.0 compatible mode choose: %Y/%m/%d/%H%M%S

 # File extension .mpg or .avi is automatically added so do not include this

 # This option was previously called ffmpeg_filename

 movie_filename %v-%Y%m%d%H%M%S
- # File path for timelapse movies relative to target_dir

 # Default: %Y%m%d-timelapse

 # Default value is near equivalent to legacy oldlayout option
- # For Motion 3.0 compatible mode choose: %Y/%m/%d-timelapse
 # File extension .mpg is automatically added so do not include this
 timelapse_filename %Y%m%d-timelapse

The mini-http server listens to this port for requests (default: 0 = disabled)
stream_port 8081

```
# Quality of the jpeg (in percent) images produced (default: 50)
stream_quality 50
# Output frames at 1 fps when no motion is detected and increase to the
# rate given by stream_maxrate when motion is detected (default: off)
stream_motion off
# Maximum framerate for stream streams (default: 1)
stream_maxrate 1
# Restrict stream connections to localhost only (default: on)
stream_localhost off
# Limits the number of images per connection (default: 0 = unlimited)
# Number can be defined by multiplying actual stream rate by desired number of seconds
# Actual stream rate is the smallest of the numbers framerate and stream_maxrate
stream_limit 0
# Set the authentication method (default: 0)
#0 = disabled
#1 = Basic authentication
# 2 = MD5 digest (the safer authentication)
stream_auth_method 0
# Authentication for the stream. Syntax username:password
```

```
# Default: not defined (Disabled)
; stream_authentication username:password
# HTTP Based Control
# TCP/IP port for the http server to listen on (default: 0 = disabled)
webcontrol_port 8080
# Restrict control connections to localhost only (default: on)
webcontrol_localhost on
# Output for http server, select off to choose raw text plain (default: on)
webcontrol_html_output on
# Authentication for the http based control. Syntax username:password
# Default: not defined (Disabled)
; we bcontrol\_authentication\ username: password
# Tracking (Pan/Tilt)
```

```
# Type of tracker (0=none (default), 1=stepper, 2=iomojo, 3=pwc, 4=generic, 5=uvcvideo, 6=servo)
# The generic type enables the definition of motion center and motion size to
# be used with the conversion specifiers for options like on_motion_detected
track_type 0
# Enable auto tracking (default: off)
track_auto off
# Serial port of motor (default: none)
;track_port /dev/ttyS0
# Motor number for x-axis (default: 0)
;track_motorx 0
# Set motorx reverse (default: 0)
;track_motorx_reverse 0
# Motor number for y-axis (default: 0)
;track_motory 1
# Set motory reverse (default: 0)
;track_motory_reverse 0
# Maximum value on x-axis (default: 0)
```

```
;track_maxx 200
# Minimum value on x-axis (default: 0)
;track_minx 50
# Maximum value on y-axis (default: 0)
;track_maxy 200
# Minimum value on y-axis (default: 0)
;track_miny 50
# Center value on x-axis (default: 0)
;track_homex 128
# Center value on y-axis (default: 0)
;track_homey 128
# ID of an iomojo camera if used (default: 0)
track_iomojo_id 0
# Angle in degrees the camera moves per step on the X-axis
# with auto-track (default: 10)
# Currently only used with pwc type cameras
track_step_angle_x 10
```

```
# Angle in degrees the camera moves per step on the Y-axis
# with auto-track (default: 10)
# Currently only used with pwc type cameras
track step angle y 10
# Delay to wait for after tracking movement as number
# of picture frames (default: 10)
track_move_wait 10
# Speed to set the motor to (stepper motor option) (default: 255)
track_speed 255
# Number of steps to make (stepper motor option) (default: 40)
track_stepsize 40
# External Commands, Warnings and Logging:
# You can use conversion specifiers for the on_xxxx commands
# %Y = year, %m = month, %d = date,
# %H = hour, %M = minute, %S = second,
# %v = event, %q = frame number, %t = thread (camera) number,
# %D = changed pixels, %N = noise level,
# %i and %J = width and height of motion area,
# %K and %L = X and Y coordinates of motion center
```

```
# %C = value defined by text_event
# %f = filename with full path
# %n = number indicating filetype
# Both %f and %n are only defined for on picture save,
# on_movie_start and on_movie_end
# Quotation marks round string are allowed.
# Do not sound beeps when detecting motion (default: on)
# Note: Motion never beeps when running in daemon mode.
quiet on
# Command to be executed when an event starts. (default: none)
# An event starts at first motion detected after a period of no motion defined by event_gap
; on_event_start value
# Command to be executed when an event ends after a period of no motion
# (default: none). The period of no motion is defined by option event_gap.
; on_event_end value
# Command to be executed when a picture (.ppm|.jpg) is saved (default: none)
# To give the filename as an argument to a command append it with %f
; on_picture_save value
# Command to be executed when a motion frame is detected (default: none)
```

```
; on_motion_detected value
# Command to be executed when motion in a predefined area is detected
# Check option 'area detect'. (default: none)
; on_area_detected value
# Command to be executed when a movie file (.mpg|.avi) is created. (default: none)
# To give the filename as an argument to a command append it with %f
; on_movie_start value
# Command to be executed when a movie file (.mpg|.avi) is closed. (default: none)
# To give the filename as an argument to a command append it with %f
; on_movie_end value
# Command to be executed when a camera can't be opened or if it is lost
# NOTE: There is situations when motion don't detect a lost camera!
# It depends on the driver, some drivers dosn't detect a lost camera at all
# Some hangs the motion thread. Some even hangs the PC! (default: none)
; on_camera_lost value
# Common Options for database features.
# Options require database options to be active also.
```

```
# Log to the database when creating motion triggered picture file (default: on)
; sql_log_picture on
# Log to the database when creating a snapshot image file (default: on)
; sql_log_snapshot on
# Log to the database when creating motion triggered movie file (default: off)
; sql_log_movie off
# Log to the database when creating timelapse movies file (default: off)
; sql_log_timelapse off
# SQL query string that is sent to the database
# Use same conversion specifiers has for text features
# Additional special conversion specifiers are
# %n = the number representing the file_type
# %f = filename with full path
# Default value:
# Create tables:
##
# Mysql
# CREATE TABLE security (camera int, filename char(80) not null, frame int, file_type int, time_stamp
timestamp(14), event_time_stamp timestamp(14));
#
# Postgresql
```

```
# CREATE TABLE security (camera int, filename char(80) not null, frame int, file_type int, time_stamp
timestamp without time zone, event time stamp timestamp without time zone);
#
# insert into security(camera, filename, frame, file_type, time_stamp, text_event) values('%t', '%f',
'%g', '%n', '%Y-%m-%d %T', '%C')
; sql_query insert into security(camera, filename, frame, file_type, time_stamp, event_time_stamp)
values('%t', '%f', '%q', '%n', '%Y-%m-%d %T', '%C')
# Database Options
# database type: mysql, postgresql, sqlite3 (default: not defined)
; database_type value
# database to log to (default: not defined)
; database_dbname value
# The host on which the database is located (default: localhost)
; database_host value
# User account name for database (default: not defined)
; database_user value
# User password for database (default: not defined)
; database_password value
```

```
# Port on which the database is located
# mysql 3306, postgresql 5432 (default: not defined)
; database port value
# Database Options For SQLite3
# SQLite3 database (file path) (default: not defined)
; sqlite3_db value
# Video Loopback Device (vloopback project)
# Output images to a video4linux loopback device
# The value '-' means next available (default: not defined)
; video_pipe value
# Output motion images to a video4linux loopback device
# The value '-' means next available (default: not defined)
; motion_video_pipe value
```

- # Thread config files One for each camera.
- # Except if only one camera You only need this config file.
- # If you have more than one camera you MUST define one thread
- # config file for each camera in addition to this config file.

- # Remember: If you have more than one camera you must have one
- # thread file for each camera. E.g. 2 cameras requires 3 files:
- # This motion.conf file AND thread1.conf and thread2.conf.
- # Only put the options that are unique to each camera in the
- # thread config files.
- ; thread /usr/local/etc/thread1.conf
- ; thread /usr/local/etc/thread2.conf
- ; thread /usr/local/etc/thread3.conf
- ; thread /usr/local/etc/thread4.conf