MP4RecordingClass

Description

A class used to record video and audio data streams into a MP4 file on the SD card.

Syntax

class MP4Recording

Members

Public Constructors

MP4Recording::MP4Recording	Constructs a MP4Recording object

Public Methods

MP4Recording::configVideo	Initialize MP4Recording video stream parameters.
MP4Recording::configAudio	Initialize MP4Recording audio stream parameters.
MP4Recording::begin	Start recording MP4 to SD card.
MP4Recording::end	Stop recording MP4 to SD card.
MP4Recording::setRecordingFileName	Set base file name of recorded MP4 files.
MP4Recording::setRecordingDuration	Set per-file MP4 recording duration.
MP4Recording::setRecordingFileCount	Set total number of MP4 files to record.
MP4Recording::setLoopRecording	Enable loop recording mode for continuous recording.

MP4Recording::setRecordingDataType	Enable recording video data and audio data.
MP4Recording::getRecordingFileName	Get currently configured base file name of recorded MP4 files.
MP4Recording::getRecordingDuration	Get currently configured per-file MP4 recording duration.
MP4Recording::getRecordingFileCount	Get currently configured total number of MP4 files to record.
MP4Recording::getRecordingState	Get current MP4 recording state.
MP4Recording::printInfo	Print current MP4 recording parameters.

MP4Recording::configVideo

Description

Initialize MP4Recording video stream parameters.

Syntax

void configVideo(VideoSetting& config);

Parameters

config: VideoSetting class object containing desired video configuration

Returns

NA

Example Code

Example: RecordMP4SingleVideoWithAudio
(https://github.com/ambiot/ambpro2_arduino/blob/dev/Arduino_package/hardware/libraries/Video/examples/RecordMP4SingleVideoWithAudio/RecordMP4SingleVideoWithAudio.ino)

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::configAudio

Description

Initialize MP4Recording audio stream parameters.

Syntax

void configAudio(void);

Parameters

NA

Returns

NA

Example Code

Example: RecordMP4SingleVideoWithAudio
(https://github.com/ambiot/ambpro2_arduino/blob/dev/Arduino_package/hardware/libraries/Video/examples/RecordMP4SingleVideoWithAudio/RecordMP4SingleVideoWithAudio.ino)

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::begin

Description

Start MP4 recording to SD card.

Syntax

void begin(void);

Parameters

NA

Returns

NA

Example Code

Example: RecordMP4SingleVideoWithAudio
(https://github.com/ambiot/ambpro2_arduino/blob/dev/Arduino_package/hardware/libraries/Video/examples/RecordMP4SingleVideoWithAudio/RecordMP4SingleVideoWithAudio.ino)

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::end

Description

Stop MP4 recording to SD card.

Syntax

void end(void);

Parameters

NA

Returns

NA

Example Code

NA

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::setRecordingFileName

Description

Set base file name of recorded MP4 files.

Syntax

void setRecordingFileName(const char* filename);
void setRecordingFileName(String filename);

Parameters

filename: Desired recorded MP4 filename, expresses as a character array or String class object

Returns

NA

Example Code

Example: RecordMP4SingleVideoWithAudio
(https://github.com/ambiot/ambpro2_arduino/blob/dev/Arduino_package/hardware/libraries/Video/examples/RecordMP4SingleVideoWithAudio/RecordMP4SingleVideoWithAudio.ino)

Notes and Warnings

Filename can be up to 127 characters long.

"MP4Recording.h" must be included to use the class function.

MP4Recording::setRecordingDuration

Description

Set per-file MP4 recording duration.

Syntax

void setRecordingDuration(uint32_t secs);

Parameters

secs: Duration of MP4 to record, expressed in seconds

Returns

NA

Example Code

Example: RecordMP4SingleVideoWithAudio
(https://github.com/ambiot/ambpro2_arduino/blob/dev/Arduino_package/hardware/libraries/Video/examples/RecordMP4SingleVideoWithAudio/RecordMP4SingleVideoWithAudio.ino)

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::setRecordingFileCount

Description

Set total number of MP4 files to record.

Syntax

void setRecordingFileCount(uint32_t count);

Parameters

count: Total number of MP4 files to record to SD card

Returns

NA

Example Code

Example: RecordMP4SingleVideoWithAudio
(https://github.com/ambiot/ambpro2_arduino/blob/dev/Arduino_package/hardware/libraries/Video/examples/RecordMP4SingleVideoWithAudio/RecordMP4SingleVideoWithAudio.ino)

Notes and Warnings

If configured to record more than 1 file, a number will be appended to the end of the base file name.

"MP4Recording.h" must be included to use the class function.

MP4Recording::setLoopRecording

Description

Enable loop recording mode for continuous recording.

Syntax

void setLoopRecording(int enable);

Parameters

enable: Enable or disable loop recording

Returns

NA

Example Code

NA

Notes and Warnings

Enabling loop recording will overwrite the oldest previously recorded MP4 file when the total number of MP4 files to record has been reached.

"MP4Recording.h" must be included to use the class function.

MP4Recording::setRecordingDataType

Description

Enable recording video data and audio data.

Syntax

void setRecordingDataType(uint8_t type);

Parameters

type: one of the following values, default value of STORAGE_ALL

STORAGE_ALL – record both video data and audio data

STORAGE_VIDEO – record only video data

STORAGE_AUDIO – record only audio data

Returns

NA

Example Code

Example: RecordMP4VideoOnly

(https://github.com/ambiot/ambpro2_arduino/blob/dev/Arduino_package/hardware/libraries/Video/examples/RecordMP4VideoOnly/RecordMP4VideoOnly.ino)

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::getRecordingFileName

Description

Get currently configured base file name of recording MP4 files.

Syntax

String getRecordingFileName(void);

Parameters

NA

Returns

A String class object containing the currently configured MP4 base file name.

Example Code

NA

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::getRecordingDuration

Description

Get currently configured per-file MP4 recording duration.

Syntax

uint32_t getRecordingDuration(void);

Parameters

NA

Returns

Currently configured per-file recording duration, expressed in seconds.

Example Code

NA

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::getRecordingFileCount

Description

Get currently configured total number of MP4 files to record.

Syntax

uint32_t getRecordingFileCount(void);

Parameters

NA

Returns

Currently configured total number of MP4 files to record.

Example Code

NA

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::getRecordingState

Description

Get current MP4 recording state.

Syntax

uint8_t getRecordingState(void);

Parameters

NA

Returns

TRUE if MP4 is currently recording, FALSE if MP4 recording has stopped

Example Code

NA

Notes and Warnings

"MP4Recording.h" must be included to use the class function.

MP4Recording::printInfo

Description

Print out current configuration of MP4 recording.

Syntax

void printInfo(void);

Parameters

NA

Returns

NA

Example Code

Example: RecordMP4SingleVideoWithAudio
(https://github.com/ambiot/ambpro2_arduino/blob/dev/Arduino_package/hardware/libraries/Video/examples/RecordMP4SingleVideoWithAudio/RecordMP4SingleVideoWithAudio.ino)

Notes and Warnings

"MP4Recording.h" must be included to use the class function.