

# Paulig MUKI: Open API v.1.1.

This document describes the programming interface specifications for controlling Paulig MUKI Cup.

Init	
Android	<i>MukiCupApi(Context context, MukiCupCallback mukiCupCallback)</i>
iOS	<i>[MukiCupAPI new]</i>
Get MUKI Cup identifier by Serial number (for Bluetooth LE operations)	
Android	<i>static String cupIdentifierFromSerialNumber(String deviceNumber) throws Exception</i>
iOS	<i>+ (NSString * _Nullable)cupIdentifierFromSerialNumber:(NSString *)serialNumber error:(NSError **)error;</i>
Get MUKI Cup information for the specified CupID. See also sections "Completion block (iOS only)" and "MukiCupCallback (Android only)".	
Android	<i>void getDeviceInfo(String cupId)</i>
iOS	<i>- (void)readDeviceInfoWithIdentifier:(NSString *)cupID completion:(void (^)(DeviceInfo * _Nullable, NSError * _Nullable))completion</i>
DeviceInfo: contains information about MUKI Cup	
modelName	Model number
manufacturerName	Manufacturer name
hardwareVersion	Hardware version
firmwareVersion	Firmware version
Send image as binary data to the specified CupID. Data length must be 5808 bytes.	
Android	<i>void sendImage(byte[] image, String cupId)</i>
iOS	<i>- (void)sendData:(NSData *)data toCup:(NSString *)cupID completion:(void(^_Nullable)(NSError * _Nullable error))completion;</i>
Send image as bitmap to the specified CupID	
Android	<i>void sendImage(Bitmap bitmap, String cupId)</i>
iOS	<i>- (void)sendImage:(UIImage *)image toCup:(NSString *)cupID completion:(void(^_Nullable)(NSError * _Nullable error))completion;</i>
Send preprocessed image with properties to the specified CupID. Resulted image size (after cropping) should be 176x264 pixels.	
Android	<i>void sendImage(Bitmap bitmap, ImageProperties properties, String cupId)</i>
iOS	<i>- (void)sendImage:(UIImage *)image toCup:(NSString *)cupID withImageProperties:(ImageProperties * _Nullable)properties completion:(void(^_Nullable)(NSError * _Nullable error))completion;</i>
ImageProperties: contains data about image processing	
startPoint	Point within the image for cropping to the size 176x264 pixels.
contrast	Contrast level of the resulted image. Value should be in range: [-100, 100].

Clear display on the specified CupID		
Android	<i>void clearImage(String cupId)</i>	
iOS	- <i>(void)clearCupWithIdentifier:(NSString *)cupID completion:(void(^_Nullable)(NSError *_Nullable error))completion;</i>	
Completion block (iOS only)		
<i>(void(^_Nullable)(NSError *_Nullable error))completion</i>	Call the block when the action is completed. NSError object is optional.	
<i>(void (^)(DeviceInfo *_Nullable deviceInfo, NSError *_Nullable error))completion</i>	Call the block when device info or error is received.	
MukiCupCallback (Android only)		
<i>void onCupConnected();</i>	Received when cup is connected	
<i>void onCupDisconnected();</i>	Received when cup is disconnected	
<i>void onDeviceInfo(DeviceInfo deviceInfo)</i>	Received when information about cup is collected	
<i>void onImageCleared();</i>	Received when cup display has been cleared	
<i>void onImageSent();</i>	Received when image was sent to the cup	
<i>void onError(Action action, ErrorCode errorCode);</i>	Received when the error occurred	
Error code		
Bluetooth not available	iOS	MukiCupErrorBluetoothUnsupported
	Android	BLUETOOTH_NOT_AVAILABLE
Bluetooth powered off	iOS	MukiCupErrorBluetoothPoweredOff
	Android	BLUETOOTH_SWITCHED_OFF
CupID not found for provided serial number	iOS	MukiCupErrorCupIdentifierNotFound
	Android	CUP_ID_NOT_FOUND
Cannot connect to the cup	iOS	MukiCupErrorCannotConnectToCup
	Android	CUP_NOT_CONNECTED
CupID is invalid	iOS	MukiCupErrorInvalidCupIdentifier
	Android	INVALID_CUP_ID
Something went wrong	iOS	MukiCupErrorUnknown
	Android	UNKNOWN_ERROR
Resulted image has wrong size	iOS	MukiCupErrorBadImage
	Android	BAD_IMAGE
Binary data has wrong length	iOS	MukiCupErrorDataLength
	Android	WRONG_DATA_LENGTH