Anyline Mobile SDK Datasheet v49

Anyline Mobile SDK is designed to be integrated into mobile apps on native environments like iOS, Android, and Universal Windows Platform (UWP), and a variety of cross-platform technologies like React Native, Flutter, Cordova, Xamarin, and .NET MAUI. Anyline Mobile SDK is built to handle all data processing on the user's device, making data capture possible without an internet connection.

Disclaimer

Anyline products are built to deliver fast and reliable data capture solutions. There are however, certain factors that can limit or negatively impact data capture speed and accuracy. These are factors for which we are not responsible and cannot assume any warranty or liability. These include, for example:

- Non-compliance with technical requirements for the specific product and/or module, as set forth in this Datasheet or otherwise agreed

- An unsuitable scanning environment, such as scanning an object under extreme lighting conditions or from a far distance

- Any obstructions on the object that you wish to scan, such as obscured text or a very shiny surface

- The quality of an image you try to scan, for example images that are blurry, out of focus or low resolution images

- Incorrect handling by users, such as using the products with a lack of sufficient experience or unsteady hands

Furthermore, each module is conceived for certain applications and has a specific set of features and capabilities. Please read the module sections carefully to understand for which use cases you can deploy modules and what the module can and cannot do. Any use of our products beyond such scope is something we do not warrant or assume any liability for.

Requirements

	iOS	Android	UWP
Minimum OS Version*	**iOS 12**	**Android 5** **(API Level 21)**	**Windows 10**
Camera Resolution	**1080p video camera**	**Minimum: 720p video camera** **Recommended: 1080p video camera**	**Minimum: 720p video camera** **Recommended: 1080p video camera**
Architecture	**arm64 / x86_64 simulator**	**armeabi-v7a / arm64**	**x86**
Recommended Tooling	**Latest Xcode**	**Latest Android Studio**	**Visual Studio 2017**
Wrappers	**Cordova, Flutter, React Native, Xamarin, .NET MAUI**	**Cordova, Flutter, React Native, Xamarin, .NET MAUI**	
Minimum SDK Size**	**16.5 MB**	**41.5 MB**	**70 MB**
Maximum SDK Size**	**85 M**	**118 MB**	**70 MB**

***Subject to change on a yearly basis. We will always strive to support at least the last 3 releases.**

****Actual numbers may vary depending on the platform, operating system and or recognition task**

Modules Overview

Anyline Mobile SDK contains a number of modules designed for capturing data from a range of different objects.

	iOS	Android	UWP	Cordova / Flutter / React Native / Xamarin / .NET MAUI
Tire Tread	✓	✓	-	-
Tire DOT/TIN	✓	✓	✓	✓
Tire Size	✓	✓	✓	✓
Tire Commercial ID	✓	✓	✓	✓
Licence Plate	✓	✓	✓	✓
VIN	✓	✓	✓	✓
Vehicle Registration Certificate	✓	✓	-	-
Odometer	✓	✓	-	✓
Meter	✓	✓	✓	✓
Meter Serial Number	✓	✓	✓	✓
Barcode	✓	✓	✓	✓
ID	✓	✓	✓	✓
MRZ	✓	✓	✓	✓
Container	✓	✓	✓	✓
Custom Serial Number	✓	✓	✓	✓

Tire Tread

Capabilities	Specifications
• Passenger tires (summer and winter) • Detects damage & abrasion patterns • Checks winter suitability & wheel alignment	• Measures 3 separate tread grooves • Accuracy: Within 0.5 mm / 1/32” • Resolution: Results shown in increments of 0.1mm / 1/32"

Tire DOT/TIN

Capabilities	Specifications

• Tire Identification Numbers with and without DOT prefix	• Universal TIN mode:
	  ◦ Scans with or without DOT prefix
	  ◦ Allowed characters: A-Z, 0-9
	  ◦ Length: between 6 and 17 characters
	  ◦ The last 4 characters must be digits and have to represent a valid production date (WWYY)
	• DOT mode:
	  ◦ Scans only with DOT prefix
	  ◦ Only tires produced after the year 2000 are scannable
	  ◦ Allowed characters: A-Z (excluding letters O, G, I, Q, S, Z), 0-9

	◦ Length: between 6 and 17 characters including DOT ◦ The last 4 characters must be digits and have to represent a valid production date (WWYY)

Tire Size

Capabilities	Specifications
• Tire specifications including: tire width, tire aspect ratio in millimetres, rim diameter in inches, load index (single or double), extra load rated tire, speed rating, fabric carcass construction, commercial tire designation, mud and snow winter tire, vehicle type recognition	• Allowed characters: A-Z (excluding letters O and I), 0-9, /+-&() • Length: Up to 20 characters (single line only) • Supported formats () = optional: ◦ `(X)000/00(X)X0000(0)X` ◦ `(X)000/00(X)X00(X` ◦ `(X)000/00X00X(0)00/(0)00X`

Tire Commercial ID

• Manufacturer’s ID code from Michelin, Continental, Goodyear, Pirelli/Prometeon, Bridgestone, CEAT, Salva (and more) tires on trucks, buses or trailers.	Specifications • Allowed characters: A-Z (excluding letter O), 0-9 • Length: 7 - 14 characters (single line only) • Regular expression: `[0-9A-NP-Z]{3}[0-9]{4,10}[0-9A-NP-Z]{0,1}`

License Plate

Capabilities	Specifications
• All EU countries + Albania, Bosnia-Herzegovina, Faroe Islands, Georgia, Gibraltar, Iceland, Kosovo, Moldova, Montenegro, North Macedonia, Norway, Russia, Serbia, Switzerland, Turkey, Ukraine and United Kingdom • All US states + American Samoa, District of Columbia, Guam and Puerto Rico • African countries with latin characters	• Allowed characters: A-Z (excluding letter O), 0-9 • Length: 7 - 14 characters • Limited support for two-line license plates for the following countries: Belarus, Belgium, Bulgaria, Croatia, Denmark, Estonia, Finland, Hungary, Latvia, North Macedonia and Romania • No support for multi-line US plates • Limited support for small two-line plates on light motorised vehicles such as mopeds • State detection is not reliable for US vanity plates

VIN

Capabilities	Specifications
• Vehicle Identification Numbers 17 characters in length according to ISO 3779	

Vehicle Registration Certificate

Capabilities	Specifications
• German Fahrzeugschein fields: document number [Nr], license plate [A Amtliches Kennzeichen], last name [C1.1 Name oder Firmenname], first name [C1.2 Vorname(n)], address [C1.3 Anschrift], first issued [B], manufacturer code [2.1], vehicle type code [2.2], vehicle identification number [E], brand, vehicle type [D.1], displacement [P.1], tire [15.1, 15.2, 15.3]	• Only available on native Android and iOS • Allowed characters: A-Z, ß, à, á, â, ä, ç, è, é, ê, ë, í, î, ï, ñ, ó, ô, ö, ú, ü, ý, 0-9, /+-&()

Odometer

Capabilities	Specifications
• Digital Odometers	• Supported Formats: 0-9, up to 7 digits.

Meter

Capabilities	Specifications
• Analog Meters: Gas, Electric, Water • Digital Meters: Gas, Electric, Water, changing/multi-values (often called “OBIS meter”), dot matrix display • Dial Meters: Gas, Water • Selected Meter Types: A49U, C114U, C14U11, G1X4, W6060, MM2600F3, CM160J, CL204, ML262XF6, ML242XF6, C114U, G1Y6U, 7AA3061, 7CA5461, 7AA5041, 7CA5061-7 • Selected Meter Brands: AEG, Danubia DZG, Landis + Gyr, Reimer & Seidl, Schlumberger AEG, Schlumberger Danubia, Siemens, Uher	• Analog Meters: 4-10 pre-decimal digits, up to 3 decimal digits (Gas, Electric, Water), black red, metallic and white backgrounds • Digital Meters: 7-segment display with at least 3 digits, 4-6 pre-decimal digits, up to 3 decimal digits (Heat) • Dial Meters: 3-5 main dials and up to 1 (red) decimal dial (labeled with numbers), black or red dials on white background

Meter Serial Number

Capabilities	Specifications
• Serial numbers for a wide range of meter types and brands	• Uppercase alphanumeric codes

Barcode

Capabilities	Specifications
• 1D Barcodes: Bookland EAN, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, Databar, Databar Expanded, Discrete 2 of 5, EAN-8/JAN 8, EAN-13/JAN 13, EAN-14, EAN 18, EAN-99, GS1-128, GS1 Databar, Identcode, Inverse 1D, ISBN-10, ISBN-13, ISBT 128, ISMN, ISNN, ISSN EAN, Interleaved 2 of 5 (ITF), ITF-14, Leitcode, Matrix 2 of 5, MSI, RSS 14, RSS Expanded, Trioptic Code 39, UCC Coupon Code, UPC-A, UPC-E	• Stacked Linear Codes not support on UWP

• 2D Barcodes: Aztec, Aztec Inverse, Aztec vCard, Data Matrix, Data Matrix Inverse, DotCode, GS1 QR Code, Maxicode, Micro QR Code, QR Code, QR Inverse • Postal Codes: Netherlands KIX Code, UK Postal, UPU FICS Postal, US Postnet, US Planet, USPS 4CB • Stacked Linear Codes: PDF 417, Micro PDF417	

ID

Capabilities	Specifications
• ID Card: Austria, Belgium, Bulgaria, Croatia, Czech Republic, Estonia, Finland, France, Germany, Hungary, Italy, Latvia, Lithuania, Luxembourg, Moldova, Netherlands, Norway, Poland, Portugal, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, US (ex. Louisiana and Tennessee), Mexico, Algeria, Egypt, Lesotho, Morocco, Tunisia, Bahrain, Kuwait, Jordan, Oman, Qatar, Saudi Arabia, UAE, Hong Kong, Pakistan • Driver's License: Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, UK, Ukraine, US, Canada (Alberta, BC, Manitoba, Nova Scotia, Ontario, Saskatchewan, Quebec), Algeria, Botswana, Egypt, Malawi, Morocco, Mozambique, South Africa, Tunisia, Zambia, Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, UAE (Dubai), Australia (ex. Tasmania), New Zealand • Residence Permit: Turkey, Oman, Qatar, Saudi Arabia, UAE • EHIC: Austria, France, Germany, Italy, Spain, UK • Military ID / Disabled ID / Pensioner ID / Student ID: Austria • RFID on biometric passports as described by ICAO 9303 • Japanese Landing Permission	• ID scanning supports Latin, Cyrillic and Arabic scripts • ID Cards fields: additional information (1, 2) address, audit, authority, conditions, date of birth, date of expiry, date of issue, document discriminator, document number, duplicate, duration, endorsements, eyes, first issued, first name, full name, hair, height, last name, license class, license type, office, parish, personal number, place and date of birth, place of birth, previous type, restrictions, sex, weight • Driver's License fields: additional information (1, 2), address, age, authority, card access number, city number, date of birth, date of expiry, date of issue, date of registration, degree of disability, division number, document discriminator, document number, duplicate, educational institution, endorsements, eyes, first issued, first name, folio, full name, hair, head of family, height, last name, license class, license type, maiden name, military rank, municipality number, nationality, parents first name, personal number, place and date of birth, place of birth, previous type, province, restrictions, sex, social security number, state number, voter ID, weight • EHIC fields: authority, date of birth, date of expiry, document number, first name, last name, nationality, personal number, social security number • RFID only on Android, iOS and Xamarin

MRZ

Capabilities	Specifications
• ID documents containing a Machine Readable Zone (MRZ)	• TD3 booklet size passport (2 lines of 44 characters each) • TD2 ID (2 lines of 36 characters each) • TD1 credit card size ID (3 lines of 30 characters each) • MRV-A Visa, MRV-B Visa according to ICAO Document 9303 standard • Swiss Drivers License (1 line of 9 characters and 2 lines of 30 characters each) • US Green Card (3 lines of 30 characters each)

Container

Capabilities	Specifications
• BIC-Codes (ISO 6346) and ILU-Codes (DIN EN 13044-1)	• ILU-Codes and BIC-Codes in one or two horizontal lines • BIC-Codes (ISO 6346) in one vertical line