# **End-User Documentation**

Android Barcode Scanner - TDMBarcodeScannerAndroid

### 1. Overview

The Android Barcode Scanner component (TDMBarcodeScannerAndroid) provides a simple way to integrate barcode and QR code scanning functionality into your Android application.

It launches a ready-made scanner UI, captures barcodes using the device camera, and returns results in JSON format through events.

# 2. Key Features

- Launches a native barcode scanner interface.
- Supports multiple barcode types, including:
- QR, Aztec, DataMatrix, PDF417
- Codabar, Code39, Code93, Code128
- EAN-8, EAN-13, ITF, UPC-A, UPC-E
- Auto-zoom functionality for faster detection.
- Provides success, canceled, and failure events.

# 3. Requirements

- Platform: Android (32-bit ARM or 64-bit ARM).
- Delphi Versions: Compatible with FireMonkey mobile projects with RAD Studio 12.3 and up.
- Permissions:
- Camera access.
- Libraries: DM.Android.Barcode (.aar) library must be available in your Android app build.

# 4. Component Properties & Events

#### Properties:

- Formats TBarcodeFormats Defines which barcode formats to scan (empty
- = all formats).

 AutoZoom - Boolean - Enables auto-zoom to improve scanning speed and accuracy. Default: True.

#### Events:

- OnSuccess procedure(Sender: TObject; const BarcodeJson: string) Triggered when a barcode is successfully scanned.
  - BarcodeJson: JSON string with barcode details.
- OnCanceled procedure(Sender: TObject) Triggered when the user cancels scanning.
- OnFailure procedure(Sender: TObject; const ErrorMessage: string) Triggered when scanning fails.
  - ErrorMessage: Short description of the failure (e.g., "Unknown scan error").

### 5. Usage

#### Step 1 - Add the Component

Place TDMBarcodeScannerAndroid on your form or create it in code.

### Step 2 - Configure Properties

- Choose supported barcode formats via the Formats property (optional).
- Enable or disable AutoZoom as needed.

### Step 3 - Assign Event Handlers

- OnSuccess Handle scanned results.
- OnCanceled Handle user cancellation.
- OnFailure Handle scanning errors.

#### Step 4 - Start the Scan

Call StartScan to open the Android scanner UI.

#### Step 5 - Handle Results

- OnSuccess: Use the provided JSON string to process barcode results.
- OnCanceled: Implement user feedback or fallback behavior.
- OnFailure: Handle error messages gracefully.

#### 6. Trial Version Behavior

#### If compiled in trial mode:

- A dialog appears before scanning with a trial message.

- A toast message also displays after scanning.
- Scanning functionality remains identical to the full version.
- Moving from trial to full version does not affect projects negatively.

# 7. Tips for Best Results

- Ensure good lighting conditions.
- Hold the device steady for faster recognition.
- Position barcodes clearly within the camera frame.
- Inform users about granting camera permissions before scanning.

### 8. Support

For trial removal or technical assistance:

- Email: office@dmonst.com

- Website: fmxcomponents.com