



Newland

SCANNING MADE SIMPLE

Newland Android Mobile Computer API Handbook

Revision History

| Version | Description | Date |
|---------|--|------------------|
| V1.0.0 | Initial release. | January 16, 2018 |
| V1.0.1 | Updated the "Change the Scanner Settings" and "Reserved Keys" sections, and added the "Appendix" section. | June 19, 2018 |
| V1.0.2 | Added the "Configuring Symbologies" section. | March 25, 2019 |
| V1.03 | Updated the "Scan Barcode" and "Stop Scanning" sections | May 31, 2019 |
| V1.04 | Updated the "Configuring Scanner Parameters" section | Step.9, 2020 |
| V1.05 | Added raw data interface for scan result byte. Added settings for NFC, positioning, soft keyboard and APN. | Jun.6,2022 |
| V1.06 | Added the "Enable or Disable Recent Apps" section Added the "Delay Mode" option Added the "Send Scan Fail Broadcast" option Added the "DOTCODE" symbology Added the "Advanced Settings" section. | Jun.29,2022 |

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About This Manual

This manual is applicable to Newland Android Portable Data Collectors (hereinafter referred to “**the terminal**”).

Development Environment

All APIs are built based on standard Android broadcast mechanism, so there is no need for additional SDKs. The terminal application development environment is the same as Android application development environment.

Obtain Product Model Number

To get the product model number, use **android.os.Build.MODEL**. According to this, the application can adapt to manufacturers' different devices, such as MT65 and MT90.

Barcode Scanner

Scan Barcode

To activate the terminal to scan barcode, application should send the following broadcast to the system.

- Broadcast: **nlscan.action.SCANNER_TRIG**
To trigger the scan engine.
- Extra scan timeout parameter: **SCAN_TIMEOUT** (value: int, 1-9; default value: 3; unit: second)
To set scan timeout, i.e. the maximum time a scan attempt can last.
- Extra scan type parameter: **SCAN_TYPE** (value: 1 or 2; default value: 1)
To set scan type: Value = 1, read one barcode during a scan attempt
Value = 2, read two barcodes during a scan attempt (This feature is **NOT** available)

Example 1:

```
Intent intent = new Intent ("nlscan.action.SCANNER_TRIG");  
mContext.sendBroadcast(intent);
```

Example 2:

```
Intent intent = new Intent ("nlscan.action.SCANNER_TRIG");
intent.putExtra("SCAN_TIMEOUT", 4);// SCAN_TIMEOUT value: int, 1-9; unit: second
intent.putExtra("SCAN_TYPE ", 2);// SCAN_TYPE: read two barcodes during a scan attempt
mContext.sendBroadcast(intent);
```

Note: When a scan and decode session is in progress, sending the broadcast above will stop the ongoing session. When scanning barcode by pressing the Scan key, it is processed at the bottom layer, thus application does not need to listen for Scan KeyPress event or send the broadcast.

Get Barcode Data

There are three ways to get barcode data:

1. Fill in EditText directly: Output scanned data at the current cursor position in EditText.
2. Simulate keystroke: Output scanned data to keyboard buffer to simulate keyboard input and get the data at the current cursor position in TextBox.
3. Output via API: Application acquires scanned data by registering a broadcast receiver and listening for specific broadcast intents.
 - Broadcast: **nlscan.action.SCANNER_RESULT**
To get barcode data.
 - Extra scan result 1 parameter: **SCAN_BARCODE1**
To get the data of barcode 1.
Type: String
 - Extra scan result 1 raw byte parameter: **scan_result_one_bytes**
To get the byte data of barcode 1.
Type: byte[]
 - Extra scan result 2 parameter: **SCAN_BARCODE2**
To get the data of barcode 2.
Type: String
 - Extra scan result 2 raw byte parameter: **scan_result_two_bytes**
To get the byte data of barcode 2.
Type: byte[]
 - Extra symbology ID number parameter: **SCAN_BARCODE_TYPE**
Type: int (-1 indicates failure to get symbology ID Number)
To get the ID number of the barcode scanned (Refer to the “Symbology ID Number” table in

Appendix to get the barcode type).

- Extra scan state parameter: **SCAN_STATE** (value: fail or ok)
To get the status of scan operation: Value = fail, operation failed
Value = ok, operation succeeded

Type: String

Example:

Register broadcast receiver:

```
mFilter= newIntentFilter("nlscan.action.SCANNER_RESULT");  
mContext.registerReceiver(mReceiver, mFilter);
```

Unregister broadcast receiver:

```
mContext.unregisterReceiver(mReceiver);
```

Get barcode data:

```
mReceiver= newBroadcastReceiver() {  
    @Override  
    publicvoidonReceive(Context context, Intent intent) {  
        final String scanResult_1=intent.getStringExtra("SCAN_BARCODE1");  
        final String scanResult_2=intent.getStringExtra("SCAN_BARCODE2");  
        // Raw byte data of the scan result  
        final byte[] scanResultByte_1=intent. intent.getByteArrayExtra("scan_result_one_bytes");  
        final byte[] scanResultByte_2= intent. intent.getByteArrayExtra("scan_result_two_bytes");  
        final int barcodeType = intent.getIntExtra("SCAN_BARCODE_TYPE", -1); // -1:unknown  
        final String scanStatus=intent.getStringExtra("SCAN_STATE");  
        if("ok".equals(scanStatus)){  
            //Success  
        }else{  
            //Failure, e.g. operation timed out  
        }  
    }  
};
```

Stop Scanning

Note: When scanning barcode by pressing the Scan key, it is processed at the bottom layer to stop the scan session, thus application does not need to send the broadcast. Even if you scan barcode by pressing the Scan key, application only need to acquire scanned data by registering a broadcast receiver and listening for specific broadcast intents, without having to send the broadcast to activate and stop scanning.

Use the broadcast **nlscan.action.STOP_SCAN** to stop an ongoing decode session.

Example:

```
Intent stopIntent = new Intent("nlscan.action.STOP_SCAN");
mContext.sendBroadcast(stopIntent);
```

Change the Scanner Settings

Configuring Scanner Parameters

Application can set one or more scanner parameters, such as enable/disable scanner, by sending to the system the broadcast **ACTION_BAR_SCANCFG** which can contain up to 3 parameters.

| Parameter | Type | Description (* indicates default) |
|--------------------------|------|---|
| EXTRA_SCAN_POWER | INT | Value = 0 Disable scanner = 1 Enable scanner* Note: When scanner is enabled, it will take some time to initialize during which all scan requests will be ignored. |
| EXTRA_TRIG_MODE | INT | Value = 0 Level mode = 1 Continuous mode = 2 Pulse mode* = 4 Delay mode* |
| EXTRA_SCAN_MODE | INT | Value = 1 Fill in EditText directly* = 2 Simulate keystroke = 3 Output via API |
| SEND_SCAN_FAIL_BROADCAST | INT | Value = 0 Disable the send scan fail broadcast = 1 Enable the send scan fail broadcast |
| EXTRA_SCAN_AUTOENT | INT | Value = 0 Do not add a line feed* = 1 Add a line feed |
| EXTRA_SCAN_NOTY_SND | INT | Value = 0 Sound notification off = 1 Sound notification on* |
| EXTRA_SCAN_NOTY_VIB | INT | Value = 0 Vibration notification off* = 1 Vibration notification on |
| EXTRA_SCAN_NOTY_LED | INT | Value = 0 LED notification off = 1 LED notification on* |
| SCAN_TIMEOUT | LONG | Set decode session timeout (millisecond) Value = 0-9000; default: 3000* |
| SCAN_INTERVAL | LONG | Set timeout between decode sessions (millisecond) Value >= 50; default: 50* |
| TRIGGER_MODE_MAIN | INT | Value = 0 Disable the Scan key on front panel as scan trigger = 1 Enable the Scan key on front panel as scan trigger* |
| TRIGGER_MODE_LEFT | INT | Value = 0 Disable the Scan key on left side as scan trigger = 1 Enable the Scan key on left side as scan trigger* |
| TRIGGER_MODE_RIGHT | INT | Value = 0 Disable the Scan key on right side as scan trigger |

| | | |
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| | | = 1 Enable the Scan key on right side as scan trigger* |
| TRIGGER_MODE_BLACK | INT | Value = 0 Disable the trigger on pistol grip as scan trigger = 1 Enable the trigger on pistol grip as scan trigger* (Precondition: The terminal supports this feature) |
| NON_REPEAT_TIMEOUT | LONG | Set reread delay (millisecond) Value = 0 Reread same barcode with no delay* > 0 Do not allow to reread same barcode before the delay expires |
| SCAN_PREFIX_ENABLE | INT | Value = 0 Disable prefix = 1 Enable prefix* |
| SCAN_SUFFIX_ENABLE | INT | Value = 0 Disable suffix = 1 Enable suffix* |
| SCAN_PREFIX | STRING | Set prefix Value = Hexadecimal value of prefix character; default: null* e.g. 0x61 should be entered as 61. |
| SCAN_SUFFIX | STRING | Set suffix Value = Hexadecimal value of suffix character; default: null* e.g. 0x61 should be entered as 61. |
| SCAN_ENCODE | INT | Character encoding Value = 1 UTF-8 = 2 GBK* = 3 ISO-8859-1 = 4 AUTO = 5 Other Should enter the value of SCAN_OTHER_ENCODE at the same time = 6 windows-1251 |
| OUTPUT_RECOVERABLE | BOOLEAN | Value = true Enable overwrite output = false Disable overwrite output* |
| EXTRA_OUTPUT_EDITOR_ACTION_ENABLE | INT | Value = 0 Disable software key event output * = 1 Enable software key event output |
| EXTRA_OUTPUT_EDITOR_ACTION | INT | Value = 0 IME_ACTION_UNSPECIFIED = 1 IME_ACTION_NONE = 2 IME_ACTION_GO = 3 IME_ACTION_SEARCH = 4 IME_ACTION_SEND = 5 IME_ACTION_NEXT = 6 IME_ACTION_DONE * = 7 IME_ACTION_PREVIOUS |
| BROADCAST_OUTPUT_ACTION | STRING | Broadcast output settings Action value |
| BROADCAST_OUTPUT_EXTRA_KEY_RESULT_1 | STRING | Broadcast output settings Barcode Result 1 parameter |
| BROADCAST_OUTPUT_EXTRA_KEY_RESULT_2 | STRING | Broadcast output settings Barcode Result 2 parameter |
| BROADCAST_OUTPUT_EX | STRING | Broadcast output settings Barcode type parameter |

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| TRA__KEY_BARCODE_TY PE | | |
| BROADCAST_OUTPUT_EX TRA__KEY_BARCODE_TY PE_NAME | STRING | Broadcast output settings Barcode type name parameter |

Example 1: Disable scanner

```
Intent intent = new Intent ("ACTION_BAR_SCANCFG");
intent.putExtra("EXTRA_SCAN_POWER", 0);
mContext.sendBroadcast(intent);
```

Example 2: Output via API, add a line feed

```
Intent intent = new Intent ("ACTION_BAR_SCANCFG");
intent.putExtra("EXTRA_SCAN_MODE", 3);
intent.putExtra("EXTRA_SCAN_AUTOENT", 1);
mContext.sendBroadcast(intent);
```

Configuring Symbolologies

Application can set barcode parameter, such as enable/disable a symbology, transmit check character, set minimum/maximum length by sending to the system the broadcast **ACTION_BARCODE_CFG** which contains the following three parameters.

| Parameter | Type | Description |
|-----------|--------|--|
| CODE_ID | STRING | Value = Barcode type e.g. "CODE128" |
| PROPERTY | STRING | Value = Barcode parameter e.g. "Enable", "Minlen", or "TrsmtChkChar" |
| VALUE | STRING | Value = Value of the barcode parameter e.g. To enable a symbology, set the value to "1" |

Example: Transmit EAN-8 check character

```
Intent intent = new Intent ("ACTION_BARCODE_CFG");
intent.putExtra("CODE_ID", "EAN8");
intent.putExtra("PROPERTY", "TrsmtChkChar");
intent.putExtra("VALUE", "1"); // "1" Enable EAN-8, "0" Disable EAN-8
mContext.sendBroadcast(intent);
```

The following table describes in details the programmable barcode parameters through the above-mentioned broadcast. Note that programmable barcode parameters depend on the scan engine integrated in the terminal.

| Barcode Parameter | | Parameter Settings |
|--------------------------|--------------------------|--|
| Code 128 | Enable/Disable Code 128 | CODE_ID: "CODE128" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable Code 128 "1": Enable Code 128 |
| | Set minimum length | CODE_ID: "CODE128" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 1) |
| | Set maximum length | CODE_ID: "CODE128" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 48) |
| | Transmit check character | CODE_ID: "CODE128" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| GS1-128 (UCC/EAN-128) | Enable/Disable GS1-128 | CODE_ID: "UCCEAN128" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) |
| | Set minimum length | CODE_ID: "UCCEAN128" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 1) |
| | Set maximum length | CODE_ID: "UCCEAN128" PROPERTY: "Maxlen" VALUE: "1" - "127" (default: 48) |
| AIM 128 | Enable/Disable AIM 128 | CODE_ID: "AIM128" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable AIM 128 "1": Enable AIM 128 |
| | Set minimum length | CODE_ID: "AIM128" PROPERTY: "Minlen" VALUE: "1" - "127" (default: 1) |
| | Set maximum length | CODE_ID: "AIM128" PROPERTY: "Maxlen" |

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| | | VALUE: "1" - "127" (default: 48) |
| | Transmit check character | CODE_ID: "AIM128" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| EAN-8 | Enable/Disable EAN-8 | CODE_ID: "EAN8" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable EAN-8 "1": Enable EAN-8 |
| | Transmit check character | CODE_ID: "EAN8" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 1) "0": Do not transmit EAN-8 check character "1": Transmit EAN-8 check character |
| | 2-digit add-on code | CODE_ID: "EAN8" PROPERTY: "Digit2" VALUE: "0" or "1" (default: 0) "0": Disable 2-digit add-on code "1": Enable 2-digit add-on code |
| | 5-digit add-on code | CODE_ID: "EAN8" PROPERTY: "Digit5" VALUE: "0" or "1" (default: 0) "0": Disable 5-digit add-on code "1": Enable 5-digit add-on code |
| | Add-on code required | CODE_ID: "EAN8" PROPERTY: "AddonRequired" VALUE: "0" or "1" (default: 0) "0": EAN-8 add-on code not required "1": EAN-8 add-on code required |
| | Enable EAN-8 zero extend | CODE_ID: "EAN8" PROPERTY: "MsgtoEan13" VALUE: "0" or "1" (default: 0) "0": Disable EAN-8 zero extend "1": Enable EAN-8 zero extend |
| | Convert EAN-8 to EAN-13 | CODE_ID: "EAN8" PROPERTY: "TypetoEan13" VALUE: "0" or "1" (default: 0) "0": Do not convert EAN-8 to EAN-13 |

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| | | "1": Convert EAN-8 to EAN-13 |
| EAN-13 | Enable/Disable EAN-13 | CODE_ID: "EAN13" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable EAN-13 "1": Enable EAN-13 |
| | Transmit check character | CODE_ID: "EAN13" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 1) "0": Do not transmit EAN-13 check character "1": Transmit EAN-13 check character |
| | 2-digit add-on code | CODE_ID: "EAN13" PROPERTY: "Digit2" VALUE: "0" or "1" (default: 0) "0": Disable 2-digit add-on code "1": Enable 2-digit add-on code |
| | 5-digit add-on code | CODE_ID: "EAN13" PROPERTY: "Digit5" VALUE: "0" or "1" (default: 0) "0": Disable 5-digit add-on code "1": Enable 5-digit add-on code |
| | Add-on code required | CODE_ID: "EAN13" PROPERTY: "AddonRequired" VALUE: "0" or "1" (default: 0) "0": EAN-13 add-on code not required "1": EAN-13 add-on code required |
| ISSN | Enable/Disable ISSN | CODE_ID: "ISSN" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable ISSN "1": Enable ISSN |
| ISBN | Enable/Disable ISBN | CODE_ID: "ISBN" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable ISBN "1": Enable ISBN |
| | Set ISBN format | CODE_ID: "ISBN" PROPERTY: "Length" VALUE: "0" or "1" (default: 1) "0": ISBN-13 |

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| | | "1": ISBN-10 |
| UPC-E | Enable/Disable UPC-E | CODE_ID: "UPCE" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable UPC-E "1": Enable UPC-E |
| | Transmit check character | CODE_ID: "UPCE" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 1) "0": Do not transmit UPC-E check character "1": Transmit UPC-E check character |
| | 2-digit add-on code | CODE_ID: "UPCE" PROPERTY: "Digit2" VALUE: "0" or "1" (default: 0) "0": Disable 2-digit add-on code "1": Enable 2-digit add-on code |
| | 5-digit add-on code | CODE_ID: "UPCE" PROPERTY: "Digit5" VALUE: "0" or "1" (default: 0) "0": Disable 5-digit add-on code "1": Enable 5-digit add-on code |
| | Add-on code required | CODE_ID: "UPCE" PROPERTY: "AddonRequired" VALUE: "0" or "1" (default: 0) "0": UPC-E add-on code not required "1": UPC-E add-on code required |
| | Transmit system character | CODE_ID: "UPCE" PROPERTY: "TrsmtSysDigit" VALUE: "0" or "1" (default: 1) "0": Do not transmit system character "1": Transmit system character |
| | Enable UPC-E extend | CODE_ID: "UPCE" PROPERTY: "MsgToupca" VALUE: "0" or "1" (default: 0) "0": Disable UPC-E extend "1": Enable UPC-E extend |
| UPC-A | Enable/Disable UPC-A | CODE_ID: "UPCA" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable UPC-A |

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| | | "1": Enable UPC-A |
| Transmit check character | CODE_ID: "UPCA" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 1) "0": Do not transmit UPC-A check character "1": Transmit UPC-A check character | |
| 2-digit add-on code | CODE_ID: "UPCA" PROPERTY: "Digit2" VALUE: "0" or "1" (default: 0) "0": Disable 2-digit add-on code "1": Enable 2-digit add-on code | |
| 5-digit add-on code | CODE_ID: "UPCA" PROPERTY: "Digit5" VALUE: "0" or "1" (default: 0) "0": Disable 5-digit add-on code "1": Enable 5-digit add-on code | |
| Add-on code required | CODE_ID: "UPCA" PROPERTY: "AddonRequired" VALUE: "0" or "1" (default: 0) "0": UPC-A add-on code not required "1": UPC-A add-on code required | |
| Transmit preamble character | CODE_ID: "UPCA" PROPERTY: "TrsmtSysDigit" VALUE: "0" or "1" (default: 0) "0": Do not transmit UPC-A preamble character "1": Transmit UPC-A preamble character | |
| Enable UPC-A + Coupon | CODE_ID: "UPCA" PROPERTY: "Coupon" VALUE: "0" or "1" (default: 0) "0": Enable UPC-A + Coupon "1": Disable UPC-A + Coupon | |
| Require coupon | CODE_ID: "UPCA" PROPERTY: "ReqCoupon" VALUE: "0" or "1" (default: 0) "0": Do not require coupon "1": Require coupon | |
| Coupon GS1 Databar output | CODE_ID: "UPCA" PROPERTY: "Gs1Coupon" VALUE: "0" or "1" (default: 0) "0": GS1 output off | |

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| | | "1": GS1 output on |
| Interleaved 2 of 5 | Enable/Disable Interleaved 2 of 5 | CODE_ID: "ITF" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable Interleaved 2 of 5 "1": Enable Interleaved 2 of 5 |
| | Set minimum length | CODE_ID: "ITF" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 6) |
| | Set maximum length | CODE_ID: "ITF" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 80) |
| | Check character verification | CODE_ID: "ITF" PROPERTY: "Check" VALUE: "0" - "1" (default: 0) "0": Disable check character verification "1": Enable check character verification |
| | Transmit check character | CODE_ID: "ITF" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| ITF-6 | Enable/Disable ITF-6 | CODE_ID: "ITF6" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable ITF-6 "1": Enable ITF-6 |
| | Transmit check character | CODE_ID: "ITF6" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| ITF-14 | Enable/Disable ITF-14 | CODE_ID: "ITF14" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable ITF-14 "1": Enable ITF-14 |
| | Transmit check character | CODE_ID: "ITF14" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) |

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| | | <p>"0": Do not transmit check character "1": Transmit check character</p> |
| Matrix 2 of 5 | Enable/Disable Matrix 2 of 5 | <p>CODE_ID: "MATRIX25" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable Matrix 2 of 5 "1": Enable Matrix 2 of 5</p> |
| | Set minimum length | <p>CODE_ID: "MATRIX25" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 4)</p> |
| | Set maximum length | <p>CODE_ID: "MATRIX25" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 80)</p> |
| | Check character verification | <p>CODE_ID: "MATRIX25" PROPERTY: "Check" VALUE: "0" - "1" (default: 0) "0": Disable check character verification "1": Enable check character verification</p> |
| | Transmit check character | <p>CODE_ID: "MATRIX25" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character</p> |
| Industrial 25 | Enable/Disable Industrial 25 | <p>CODE_ID: "IND25" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable Industrial 25 "1": Enable Industrial 25</p> |
| | Set minimum length | <p>CODE_ID: "IND25" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 6)</p> |
| | Set maximum length | <p>CODE_ID: "IND25" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 48)</p> |
| | Check character verification | <p>CODE_ID: "IND25" PROPERTY: "Check" VALUE: "0" - "1" (default: 0) "0": Disable check character verification "1": Enable check character verification</p> |
| | Transmit check | <p>CODE_ID: "IND25"</p> |

| | | |
|-------------|------------------------------|--|
| | character | PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| Standard 25 | Enable/Disable Standard 25 | CODE_ID: "STD25" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable Standard 25 "1": Enable Standard 25 |
| | Set minimum length | CODE_ID: "STD25" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 6) |
| | Set maximum length | CODE_ID: "STD25" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 48) |
| | Check character verification | CODE_ID: "STD25" PROPERTY: "Check" VALUE: "0" - "1" (default: 0) "0": Disable check character verification "1": Enable check character verification |
| | Transmit check character | CODE_ID: "STD25" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| Code 39 | Enable/Disable Code 39 | CODE_ID: "CODE39" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable Code 39 "1": Enable Code 39 |
| | Set minimum length | CODE_ID: "CODE39" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 1) |
| | Set maximum length | CODE_ID: "CODE39" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 48) |
| | Check character verification | CODE_ID: "CODE39" PROPERTY: "Check" VALUE: "0" - "1" (default: 0) "0": Disable check character verification |

| | | |
|---------|-------------------------------|--|
| | | "1": Enable check character verification |
| | Transmit check character | CODE_ID: "CODE39" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| | Transmit start/stop character | CODE_ID: "CODE39" PROPERTY: "TrsmtStasrtStop" VALUE: "0" or "1" (default: 0) "0": Do not transmit start/stop character "1": Transmit start/stop character |
| | Code 39 Full ASCII | CODE_ID: "CODE39" PROPERTY: "FullAscii" VALUE: "0" or "1" (default: 0) "0": Disable Code 39 Full ASCII "1": Enable Code 39 Full ASCII |
| Codabar | Enable/Disable Codabar | CODE_ID: "CODABAR" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable Codabar "1": Enable Codabar |
| | Set minimum length | CODE_ID: "CODABAR" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 2) |
| | Set maximum length | CODE_ID: "CODABAR" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 60) |
| | Check character verification | CODE_ID: "CODABAR" PROPERTY: "Check" VALUE: "0" - "1" (default: 0) "0": Disable check character verification "1": Enable check character verification |
| | Transmit check character | CODE_ID: "CODABAR" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| | Transmit start/stop character | CODE_ID: "CODABAR" PROPERTY: "TrsmtStasrtStop" VALUE: "0" or "1" (default: 0) |

| | | |
|---------|------------------------------|--|
| | | <p>"0": Do not transmit start/stop character "1": Transmit start/stop character</p> |
| | Start/Stop character format | <p>CODE_ID: "CODABAR" PROPERTY: "StartStopMode" VALUE: "0" or "1" (default: 0) "0": ABCD/ABCD "1": ABCD/TN*E</p> |
| Code 93 | Enable/Disable Code 93 | <p>CODE_ID: "CODE93" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable Code 93 "1": Enable Code 93</p> |
| | Set minimum length | <p>CODE_ID: "CODE93" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 1)</p> |
| | Set maximum length | <p>CODE_ID: "CODE93" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 48)</p> |
| | Check character verification | <p>CODE_ID: "CODE93" PROPERTY: "Check" VALUE: "0" - "1" (default: 0) "0": Disable check character verification "1": Enable check character verification</p> |
| | Transmit check character | <p>CODE_ID: "CODE93" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character</p> |
| Code 11 | Enable/Disable Code 11 | <p>CODE_ID: "CODE11" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable Code 11 "1": Enable Code 11</p> |
| | Set minimum length | <p>CODE_ID: "CODE11" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 4)</p> |
| | Set maximum length | <p>CODE_ID: "CODE11" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 48)</p> |
| | Check character | <p>CODE_ID: "CODE11"</p> |

| | | |
|-------------|------------------------------|---|
| | verification | PROPERTY: "ChkMode" VALUE: "0" - "5" (default: 1) "0": Disable "1": 1 check character, MOD11 "2": 2 check characters, MOD11/MOD11 "3": 2 check characters, MOD11/MOD9 "4": 1 check character, MOD11; 2 check characters, MOD11/MOD11 "5": 1 check character, MOD11; 2 check characters, MOD11/MOD9 |
| | Transmit check character | CODE_ID: "CODE11" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| Plessey | Enable/Disable Codabar | CODE_ID: "PLSY" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable Plessey "1": Enable Plessey |
| | Set minimum length | CODE_ID: "PLSY" PROPERTY: "Minlen" VALUE: "1" - "127" (default: 1) |
| | Set maximum length | CODE_ID: "PLSY" PROPERTY: "Maxlen" VALUE: "1" - "127" (default: 127) |
| | Check character verification | CODE_ID: "PLSY" PROPERTY: "Check" VALUE: "0" - "1" (default: 0) "0": Disable check character verification "1": Enable check character verification |
| | Transmit check character | CODE_ID: "PLSY" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| MSI-Plessey | Enable/Disable MSI-Plessey | CODE_ID: "MSIPLSY" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable MSI-Plessey |

| | | |
|--------|--------------------------------------|--|
| | | "1": Enable MSI-Plessey |
| | Set minimum length | CODE_ID: "MSIPLSY" PROPERTY: "Minlen" VALUE: "1" – "127" (default: 4) |
| | Set maximum length | CODE_ID: "MSIPLSY" PROPERTY: "Maxlen" VALUE: "1" – "127" (default: 48) |
| | Check character verification | CODE_ID: "MSIPLSY" PROPERTY: "ChkMode" VALUE: "0" - "3" (default: 1) "0": Disable "1": 1 check character, MOD10 "2": 2 check characters, MOD10/MOD10 "3": 2 check characters, MOD10/MOD11 |
| | Transmit check character | CODE_ID: "MSIPLSY" PROPERTY: "TrsmtChkChar" VALUE: "0" or "1" (default: 0) "0": Do not transmit check character "1": Transmit check character |
| PDF417 | Enable/Disable PDF417 | CODE_ID: "PDF417" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable PDF417 "1": Enable PDF417 |
| | Set minimum length | CODE_ID: "PDF417" PROPERTY: "Minlen" VALUE: "1" – "2710" (default: 1) |
| | Set maximum length | CODE_ID: "PDF417" PROPERTY: "Maxlen" VALUE: "1" – "2710" (default: 2710) |
| | PDF417 twin code | CODE_ID: "PDF417" PROPERTY: "CodeNum" VALUE: "1" or "2" (default: 1) "1": Read single PDF417 code "2": Read two PDF417 codes |
| | Fixed number of barcodes on an image | CODE_ID: "PDF417" PROPERTY: "NumFixed" VALUE: "0" or "1" (default: 1) "0": Varied number of barcodes on an image "1": Fixed number of barcodes on an image |

| | | |
|-------------|--------------------------------------|---|
| | PDF417 inverse | CODE_ID: "PDF417" PROPERTY: "VideoMode" VALUE: "0" or "2" (default: 0) "0": Decode regular PDF417 barcodes only "1": Decode inverse PDF417 barcodes only "2": Decode both |
| QR Code | Enable/Disable QR Code | CODE_ID: "QR" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable QR Code "1": Enable QR Code |
| | Set minimum length | CODE_ID: "QR" PROPERTY: "Minlen" VALUE: "1" – "7089" (default: 1) |
| | Set maximum length | CODE_ID: "QR" PROPERTY: "Maxlen" VALUE: "1" – "7089" (default: 7089) |
| | QR twin code | CODE_ID: "QR" PROPERTY: "CodeNum" VALUE: "1" or "2" (default: 1) "1": Read single QR code "2": Read two QR codes |
| | Fixed number of barcodes on an image | CODE_ID: "QR" PROPERTY: "NumFixed" VALUE: "0" or "1" (default: 1) "0": Varied number of barcodes on an image "1": Fixed number of barcodes on an image |
| | QR Code inverse | CODE_ID: "QR" PROPERTY: "VideoMode" VALUE: "0" or "2" (default: 0) "0": Decode regular QR barcodes only "1": Decode inverse QR barcodes only "2": Decode both |
| Data Matrix | Enable/Disable Data Matrix | CODE_ID: "DM" PROPERTY: "Enable" VALUE: "0" or "1" (default: 1) "0": Disable Data Matrix "1": Enable Data Matrix |
| | Set minimum length | CODE_ID: "DM" PROPERTY: "Minlen" |

| | | |
|----------------------------------|--------------------------------------|---|
| | | VALUE: "1" – "3116" (default: 1) |
| | Set maximum length | CODE_ID: "DM" PROPERTY: "Maxlen" VALUE: "1" – "3116" (default: 3116) |
| | Rectangular barcode | CODE_ID: "DM" PROPERTY: "RectAngle" VALUE: "0" or "1" (default: 1) "0": Disable rectangular DM "1": Enable rectangular DM |
| | Data Matrix twin code | CODE_ID: "DM" PROPERTY: "CodeNum" VALUE: "1" or "2" (default: 1) "1": Read single Data Matrix code "2": Read two Data Matrix codes |
| | Fixed number of barcodes on an image | CODE_ID: "DM" PROPERTY: "NumFixed" VALUE: "0" or "1" (default: 1) "0": Varied number of barcodes on an image "1": Fixed number of barcodes on an image |
| | Data Matrix inverse | CODE_ID: "DM" PROPERTY: "VideoMode" VALUE: "0" or "2" (default: 0) "0": Decode regular Data Matrix barcodes only "1": Decode inverse Data Matrix barcodes only "2": Decode both |
| Chinese Sensible (CS) Code | Enable/Disable CS Code | CODE_ID: "CSC" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable CS Code "1": Enable CS Code |
| | Set minimum length | CODE_ID: "CSC" PROPERTY: "Minlen" VALUE: "1" – "7827" (default: 1) |
| | Set maximum length | CODE_ID: "CSC" PROPERTY: "Maxlen" VALUE: "1" – "7827" (default: 7827) |
| | CS twin code | CODE_ID: "CSC" PROPERTY: "CodeNum" VALUE: "1" or "2" (default: 1) "1": Read single CS code |

| | | |
|-------------|--------------------------------------|--|
| | | "2": Read two CS codes |
| | Fixed number of barcodes on an image | CODE_ID: "CSC" PROPERTY: "NumFixed" VALUE: "0" or "1" (default: 1) "0": Varied number of barcodes on an image "1": Fixed number of barcodes on an image |
| | CS Code inverse | CODE_ID: "CSC" PROPERTY: "VideoMode" VALUE: "0" or "2" (default: 0) "0": Decode regular CS barcodes only "1": Decode inverse CS barcodes only "2": Decode both |
| Aztec | Enable/Disable Aztec | CODE_ID: "AZTEC" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable Aztec "1": Enable Aztec |
| | Set minimum length | CODE_ID: "AZTEC" PROPERTY: "Minlen" VALUE: "1" – "3832" (default: 1) |
| | Set maximum length | CODE_ID: "AZTEC" PROPERTY: "Maxlen" VALUE: "1" – "3832" (default: 3832) |
| | Aztec twin code | CODE_ID: "AZTEC" PROPERTY: "CodeNum" VALUE: "1" or "2" (default: 1) "1": Read single Aztec code "2": Read two Aztec codes |
| | Fixed number of barcodes on an image | CODE_ID: "AZTEC" PROPERTY: "NumFixed" VALUE: "0" or "1" (default: 1) "0": Varied number of barcodes on an image "1": Fixed number of barcodes on an image |
| | Aztec inverse | CODE_ID: "AZTEC" PROPERTY: "VideoMode" VALUE: "0" or "2" (default: 0) "0": Decode regular Aztec barcodes only "1": Decode inverse Aztec barcodes only "2": Decode both |
| MicroPDF417 | Enable/Disable | CODE_ID: "MICROPDF" |

| | | |
|----------|-------------------------|--|
| | MicroPDF417 | PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable MicroPDF417 "1": Enable MicroPDF417 |
| | Set minimum length | CODE_ID: "MICROPDF" PROPERTY: "Minlen" VALUE: "1" – "366" (default: 1) |
| | Set maximum length | CODE_ID: "MICROPDF" PROPERTY: "Maxlen" VALUE: "1" – "366" (default: 366) |
| Micro QR | Enable/Disable Micro QR | CODE_ID: "MICROQR" PROPERTY: "Enable" VALUE: "0" or "1" (default: 0) "0": Disable Micro QR "1": Enable Micro QR |
| | Set minimum length | CODE_ID: "MICROQR" PROPERTY: "Minlen" VALUE: "1" – "35" (default: 1) |
| | Set maximum length | CODE_ID: "MICROQR" PROPERTY: "Maxlen" VALUE: "1" – "35" (default: 35) |

Reserved Keys

The terminal provides reserved keys, for example:

MT90 provides one reserved key: F6.

MT65 provides four reserved keys: F1、 F2、 F3、 F4.

Application can define reserved key's functions as per actual needs

Example 1: Process the KeyDown event of reserved key

```
public boolean onKeyDown(int keyCode, KeyEvent event) {
    switch (keyCode)
    {
    case KeyEvent.KEYCODE_F6:
        showInfo("F6 KeyDown\n");
        break;
    }
}
```

```
    }  
    return super.onKeyDown(keyCode,event);  
}
```

Example 2: Process the KeyUp event of reserved key

```
public boolean onKeyUp(int keyCode, KeyEvent event) {  
    switch (keyCode)  
    {  
        case KeyEvent.KEYCODE_F6:  
            showInfo("F6 KeyUp\n");  
            break;  
    }  
    return super.onKeyDown(keyCode, event);  
}
```

Other APIs

Notification Bar Pull-down

To enable/disable the notification bar pull-down, application should send to the system the broadcast **nlscan.action.STATUSBAR_SWITCH_STATE** with the value of Extra parameter ENABLE set to be true/false.

Example: Disable the notification bar pull-down

```
Intent intent = new Intent("nlscan.action.STATUSBAR_SWITCH_STATE");  
intent.putExtra("ENABLE", false);  
context.sendBroadcast(intent);
```

Press the Home Key to Switch to Desktop

To enable/disable the feature of switching to desktop by pressing the Home key, application should send to the system the broadcast **nlscan.action.HOMEKEY_SWITCH_STATE** with the value of Extra parameter ENABLE set to be true/false.

Example: Disable the feature of switching to desktop by pressing the Home key

```
Intent intent = new Intent("nlscan.action.HOMEKEY_SWITCH_STATE");  
intent.putExtra("ENABLE", false);  
context.sendBroadcast(intent);
```

Set the System Time

To set the system time, application should send to the system the broadcast **nlscan.action.SET_TIME** with the value of Extra parameter **TIME_MS** set to be a string represented as the number of millisecond.

Example:

```
Public long getTimeMillis(){
    Calendar c=Calendar.getInstance();
    c.set(2016,0,1,0,0,0);
    return c.getTimeInMillis();
}
Intent it = new Intent("nlscan.action.SET_TIME");
long mills = getTimeMillis();
it.putExtra("TIME_MS", String.valueOf(mills));
mContext.sendBroadcast(it);
```

Set the NFC, Positioning, Soft Keyboard, and APN

Application can set NFC, Positioning, Soft Keyboard, and APN by sending to the system the broadcast **com.nlscan.action.backuprecovery** which contains the following parameters.

| Parameter | Type | Description |
|-----------|--------|-------------|
| Set | STRING | Json String |

Calling Example:

```
String json = "{\n" +
    "\t\"quick_setting\": [\n" +
    "\t\t\"quick_setting\": [\n" +
    "\t\t\t\"NFC.Enable\": \"1\"\n" +
    "\t\t}],\n" +
    "\t\t\"set_data_diff_flag\": \"0\"\n" +
    "\t}],\n" +
    "\t\"version\": \"V0.00.001\"\n" +
    "}";
String action = "com.nlscan.action.backuprecovery";
String pkg = "com.nlscan.nlsbackuprecovery";
Intent intent = new Intent(action);
intent.setPackage(pkg);
```

```
intent.putExtra("set", json);
sendBroadcast(intent);
```

Json Explanation

NFC:

```
{
  "quick_setting": [
    {
      "quick_setting": [
        {
          "NFC.Enable": "1" //1: Enable 0: Disable
        }
      ],
      "set_data_diff_flag": "1"
    }
  ],
  "version": "V0.00.001"
}
```

Soft Keyboard:

```
{
  "quick_setting": [
    {
      "quick_setting": [
        {
          "SHOWSOFTINPUT.Enable": "1" //1: Enable 0: Disable
        }
      ],
      "set_data_diff_flag": "1"
    }
  ],
  "version": "V0.00.001"
}
```

Positioning:

```
{
  "device_setting": [
    {
      "start_intent": [
        {
          "Intent.list": [
            {
              "type": "broadcast",
              "action": "nlscan.action.WRITE_SETTINGS_DB",
              "group_split_char": ";",
              "params":
"es-db-secure;es-name-location_providers_allowed;es-value-+network,gps;es-type-string"
            }
          ]
        }
      ],
      "set_data_diff_flag": "1"
    }
  ]
  "version": "V0.00.001"
}
```

APN:

```
{
  "device_setting": [
    {
      "apn": [
        {
          "RESET_APN.Enable": "1",
          "APN_LIST.list": [
            {
              "APN_PROXY": "", //proxy
              "APN_TYPE": "", //type
              "APN_SUBID": "1", //SIM card id, "0" or "1" for single SIM
            }
          ]
        }
      ]
    }
  ]
}
```

```

card
    "APN_MVNO_TYPE": "", //MVNO Type
    "APN_MMSC": "", //MMSC
    "APN_MVNO_VALUE": "", //MVNO Value
    "APN_AUTHTYPE": "", // Auth type, optional value:
PAP,CHAP,PAP OR CHAP
    "APN_SERVER": "", //Server
    "APN_APN": "11111", //APN
    "APN_USER": "", //User Name
    "APN_PROTOCOL": "IPv4/IPv6", //Protocol, optional value: IPv4, IPv6,
IPv4/IPv6
    "APN_NAME": "11111", //APN name
    "APN_PASSWORD": "", //Password
    "APN_PORT": "", //Port
    "APN_OPERTYPE": "2", // Do not change this item
    "APN_MMSPROXY": "", //MMS proxy
    "APN_ROAMING_PROTOCOL": "IPv4/IPv6", // Roaming protocol,
optional value: IPv4, IPv6, IPv4/IPv6
    "APN_MMSPORT": "", //MMS port
    "APN_BEARER": "" //Bearer system
    }
    ]
    },
    "set_data_diff_flag": "1"
    }
    ],
    "version": "V0.00.001"
}

```

Remarks for APN settings: Manually add APN on the terminal and verify that the function is normal. Then complete the json parameter according to the detailed parameter interface of the APN newly added.

The above json can be set individually or in combination at one time as follows:

```
{
  "device_setting": [
    {
      "start_intent": [
        {
          "Intent.list": [
            {
              "type": "broadcast",
              "action": "nlscan.action.WRITE_SETTINGS_DB",
              "group_split_char": ";",
              "params":
"es-db-secure;es-name-location_providers_allowed;es-value-+network,gps;es-type-string"
            }
          ]
        }
      ],
      "apn": [
        {
          "RESET_APN.Enable": "1",
          "APN_LIST.list": [
            {
              "APN_PROXY": "",
              "APN_TYPE": "",
              "APN_SUBID": "1",
              "APN_MVNO_TYPE": "",
              "APN_MMSC": "",
              "APN_MVNO_VALUE": "",
              "APN_AUTHTYPE": "",
              "APN_SERVER": "",
              "APN_APN": "11111",
              "APN_USER": "",
              "APN_PROTOCOL": "IPv4/IPv6",
              "APN_NAME": "11111",
              "APN_PASSWORD": "",
            }
          ]
        }
      ]
    }
  ]
}
```

```

        "APN_PORT": "",
        "APN_OPERTYPE": "2",
        "APN_MMSPROXY": "",
        "APN_ROAMING_PROTOCOL": "IPv4/IPv6",
        "APN_MMSPORT": "",
        "APN_BEARER": ""
    }
}
],
"set_data_diff_flag": "1"
}
],
"quick_setting": [
    {
        "quick_setting": [
            {
                "NFC.Enable": "1",
                "SHOWSOFTINPUT.Enable": "1"
            }
        ],
        "set_data_diff_flag": "1"
    }
],
"version": "V0.00.001"
}

```

Enable or Disable Recent Apps

Application can enable or disable the recent apps by sending to the system the broadcast **nlscan.action.SWITCH_RECENTS**

Example:

```

Intent intent = new Intent("nlscan.action.SWITCH_RECENTS");
intent.putExtra("ENABLE", false); //Disable the recent apps
context.sendBroadcast(intent);

```


Appendix

Symbology ID Number

| ID Number | Symbology |
|-----------|--------------|
| 0 | ZASETUP |
| 1 | SETUP128 |
| 2 | CODE128 |
| 3 | UCCEAN128 |
| 4 | AIM128 |
| 5 | GS1_128 |
| 6 | ISBT128 |
| 7 | EAN8 |
| 8 | EAN13 |
| 9 | UPCE |
| 10 | UPCA |
| 11 | ISBN |
| 12 | ISSN |
| 13 | CODE39 |
| 14 | CODE93 |
| 15 | 93I |
| 16 | CODABAR |
| 17 | ITF |
| 18 | ITF6 |
| 19 | ITF14 |
| 20 | DPLEITCODE |
| 21 | DPIDENTCODE |
| 22 | CHNPOST25 |
| 23 | STANDARD25 |
| 23 | IATA25 |
| 24 | MATRIX25 |
| 25 | INDUSTRIAL25 |
| 26 | COOP25 |
| 27 | CODE11 |
| 28 | MSIPLESSEY |
| 29 | PLESSEY |
| 30 | RSS14 |
| 31 | RSSLIMITED |

| | |
|-----|----------------|
| 32 | RSSEXPANDED |
| 33 | TELEPEN |
| 34 | CHANNELCODE |
| 35 | CODE32 |
| 36 | CODEZ |
| 37 | CODABLOCKF |
| 38 | CODABLOCKA |
| 39 | CODE49 |
| 40 | CODE16K |
| 41 | HIBC128 |
| 42 | HIBC39 |
| 43 | RSSFAMILY |
| 44 | TriopticCODE39 |
| 45 | UPC_E1 |
| 256 | PDF417 |
| 257 | MICROPDF |
| 258 | QRCODE |
| 259 | MICROQR |
| 260 | AZTEC |
| 261 | DATAMATRIX |
| 262 | MAXICODE |
| 263 | CSCODE |
| 264 | GRIDMATRIX |
| 265 | EARMARK |
| 266 | VERICODE |
| 267 | CCA |
| 268 | CCB |
| 269 | CCC |
| 270 | COMPOSITE |
| 271 | HIBCAZT |
| 272 | HIBCDM |
| 273 | HIBCMICROPDF |
| 274 | HIBCQR |
| 275 | DOTCODE |
| 512 | POSTNET |
| 513 | ONECODE |
| 514 | RM4SCC |
| 515 | PLANET |
| 516 | KIX |

| | |
|-------|-------------|
| 517 | APCUSTOM |
| 518 | APREDIRECT |
| 519 | APREPLYPAID |
| 520 | APROUTING |
| 768 | NUMOCRB |
| 769 | PASSPORT |
| 770 | TD1 |
| 2048 | PRIVATE |
| 2049 | ZZCODE |
| 65535 | UNKNOWN |

Advanced Settings

| SETTINGS | SUBCLASS | CODE_ID | PROPERTY | VALUE | SCANNING ENGINE SUPPORTED |
|-----------------------|-----------------|----------------|-----------------|--|--|
| Acuscan | / | CENTERDECODE | Enable | 1: Enable 0: Disable Default value : 0 | Generic |
| Output AI in brackets | / | AppldSeparator | Enable | 1: Enable 0: Disable Default value : 0 | Generic |
| Multiple barcodes | / | MultiDecode | Enable | 1: Enable 0: Disable Default value : 0 | Generic |
| Other | Noise reduction | OTHER | Denoise | 1: Enable 0: Disable Default value : 0 | Generic |
| | Exposure level | OTHER | ExposureLevel | 2: High 1: Medium 0: Low 255: Illumination off Default value : 1 | CM48 CM48-V CM48MR CM26 CM60 CM60L NFT10-DE3 |
| | Illum mode | OTHER | IllumMode | 1: Normal 0: No light Default value : 1 | CM60 CM60L CM30 |
| | The power plan | OTHER | SleepTimeSwitch | 0: Power saving 1: High performance | Generic |
| | OCR enable | OTHER | OCRPVlenable | 1: Enable 0: Disable Default value : 0 | Generic |



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