# MAGTEK®
## SECURITY FROM THE INSIDE

Secure Payment

Email Receipt

## iDynamo 5 (Gen II)
Made for iPhone 11 Pro max, iPhone 11, iPhone X, iPhone 8 Plus, iPhone 8, iPhone 7 Plus, iPhone 7, iPhone 6s Plus, iPad Pro 9.7-inch, iPad Pro 12.9-inch (1st generation), iPad Air 2, iPad Air, iPad mini 4, iPad mini 3, iPad (5th, 6th, 7th, and 8th generation).

# iDynamo 5 (Gen II)
## Secure Card Reader Authenticator

iDynamo 5 (Gen II) is a compact secure card reader authenticators (SCRAs) that read magnetic stripe cards that conform to ISO standards. iDynamo 5 (Gen II) models are made for iPhone and iPad devices with a Lightning interface.

In addition to reading multiple tracks of data from a card, iDynamo 5 (Gen II) has MagnePrint technology, so a card's unique MagnePrint fingerprint is included with the track data in each transaction. To maximize card security, when a cardholder swipes a card, the device encrypts card data and MagnePrint data before they leave the encapsulated magnetic stripe reader head using the Triple Data Encryption Algorithm (TDEA, also known as Triple DES).

iDynamo 5 (Gen II) models manage encryption keys using DUKPT (Derived Unique Key Per Transaction) key management. DUKPT uses a base derivation key to encrypt a key serial number that produces an initial encryption key which is injected into the device prior to deployment. After each transaction, the encryption key is modified per the DUKPT algorithm so each transaction uses a unique key. Thus, the data is encrypted with a different key for each transaction.

## Enhanced User Experience
Mobile merchants can now leverage the power of their iPad, iPhone and iPod touch products without the worries of handling or storing sensitive card data.

## Easy Integration and Implementation
MagTek provides SDKs and APIs for easier development and integration to reduce time to market. Or use our MagneFlex Browser with the SDKs "baked-in" to the browser for faster application creation.

Call a representative to learn more: 562-546-6400.

# Stability and Reliability

iDynamo 5 (Gen II) models are rugged and affordable, so it not only withstands real world use, it performs to the high standards set by MagTek, the world's most prolific supplier of secure payment technology for over 40 years. The stabilizing adapters secure the reader to your device for a more reliable and stable one-swipe read.

Adapters make attaching to your different iOS devices simple and provide more stability. iDynamo 5 (Gen II) models come with several stability adapters. Optional adapter kits are available.

# MagneSafe Security

Ideal for merchants and mobile users, iDynamo 5 (Gen II) models offer MagneSafe security features combined with the power of iPad, iPhone and iPod touch products with Lightning interface options. This powerful combination assures convenience and cost savings while maximizing card data protection and transaction security from the moment the card is swiped all the way to authorization.

No other card reader beats the protection offered by a MagneSafe product. Other devices claim to encrypt data in the reader. iDynamo 5 (Gen II) models encrypt the data inside the read head, closest to the magnetic stripe and offers additional security layers with immediate tokenization of card data and MagnePrint card authentication. This layered approach to security far exceeds the protection of encryption by itself, decreases the scope of PCI compliance, and reduces fraud.

- Uses Apple Lightning connector
- USB port allows the iOS host to charge
- Bi-directional card reading
- Reads encoded data that meets ANSI/ISO/AAMVA standards
- Reads up to three tracks of card data
- Non-volatile memory for storage of protected and settable properties
- Provides 54 byte MagnePrint value
- Contains a unique, permanent serial number for tracking
- Encrypts track data MagnePrint values
- Supports mutual authentication mode for use with Magensa

| Specifications | |
|---|---|
| **Payment methods** | |
| Magstripe secure card reader authenticator<br>Triple Track (TK1/2/3); Bidirectional read<br>ISO 7810, 7811; AAMVA driver licenses | YES<br>6 in./s to 60 in./s<br>(15 cm/s to 152 cm/s) |
| EMV chip contact | NA |
| EMV contactless | NA |
| NFC contactless / mobile wallets | NA |
| **Reliability and Operation** | |
| MSR / SCRA swipes | 100,000 card swipes |
| EMV insertions | NA |
| Tested Compatible Operating System | **iDynamo 5 (Gen II):**<br>iOS 8 and above |
| CPU and memory | Non-volatile |
| Status indicators | NA |
| Device Compatibility | iDynamo 5 (Gen II) works with<br>iOS Lightning connector devices. |
| **General** | |
| Connection Method | Lightning |
| Wireless (Frequency 2.4 MHz) | NA |
| Wired connection types | Apple Lightning iAP2<br>**iDynamo 5 (Gen II):**<br>USB-C for pass-thru charging |
| Display | NA |
| Secure Key Pad | NA |
| Optional Accessories | Cable and adapter stabilizers |
| Web services | NA |
| **Electrical** | |
| Power Inputs | Lightning connector<br>**iDynamo 5 (Gen II):**<br>USB C connector |
| Battery | No Battery |
| Voltage | 2.85 to 3.47 VDC from the<br>attached iOS host<br>5 VDC on USB power |
| **Security and Certifications** | |
| Compliance (FCC, CE, UL) | YES |
| Data protection 3DES encryption;<br>DUKPT key management<br>MagneSafe Security Architecture<br>Unique, non-changeable device serial number | YES |
| Tamper | Evident/Resistant |
| **Mechanical** | |
| Dimensions<br>L x W x H or L x W x D | 2.47 x 1.5 x 0.58 in.<br>(62.7 x 38.1 x 14.7 mm) |
| Weight | **iDynamo 5 (Gen II):**<br>w/o adapter 1.02 oz. (28.94 g) |
| Mount/Stabilizer | Device adapters |
| **Environmental** | |
| Operating temp | 32°F to 95°F (0°C to 35°C) |
| Operating humidity non-condensing | 5% to 90% |
| Storage temp | -4°F to 113°F (-20°C to 45°C) |
| Storage humidity non-condensing | 5% to 90% |

**Made for**
 iPhone | iPad