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# eDMX4 MAX ISODIN22



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## USER MANUAL

DMXking.com • JPK Systems Limited • New Zealand  
0130-700-4.10

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## 1. INTRODUCTION

Thanks for purchasing a DMXking product. Our aim is to bring you high quality products with great features we know you'll appreciate. DMXking MAX series devices are Art-Net and sACN/E1.31 protocol compatible designed for use with computer based show control software or expansion of lighting console outputs. There are many free and commercial software packages available. <http://dmxking.com/control-software>

## HARDWARE AND FIRMWARE VERSIONS

From time-to-time minor hardware changes occur in our products usually small feature additions or unseen optimizations. The table below lists eDMX4 MAX ISODIN22 product variants. Check the product label for P/N details.

Part Number	Feature addition
0130-1.1	Initial product release

Firmware updates are released on a semi-regular basis. We recommend updating to the latest available firmware version so all product features are available. Please take note the user manual reflects latest firmware version features unless otherwise noted.

Firmware Version	Comments
V4.0	Initial release. RDM support disabled.
V4.1	Improved port LED intensity. Fixed startup hang with certain SD cards.
V4.2	DMX-IN recording issue fix. ArtNet subnet broadcast traffic issue fix – resolves problem with being unable to scan for (L)eDMX MAX units.
V4.3	Initial release with USB DMX support.
V4.5	Extensions to DMXking USB DMX protocol. Required update for USB DMX functionality.
V4.6	Art-Net TimeSync. ArtPollReply changed to single universe per message. Art-Net RDM functionality enabled. DMX512 timing parameters adjustable. Art-Net UDP Port adjustable. Art-Net RDM Controller optional fixed IP and adjustable UDP Port. Diagnostics messages priority enhancements.
V4.7	SD card detection improvements.
V4.8	Version consistency release.
*V4.9	Static scene recording function added. Incoming Universe List option added. USB DMX source for show recording. User configurable USB DMX and Art-Net internal Priority. sACN Priority re-write for scene/show stream playback. Soft reset to defaults through configuration utility.
V4.10	sACN Universe Discovery message added when DMX-IN ports configured. Basic USB DMX port configuration message added. ArtPollReply changes for mixed DMX-IN/OUT port configurations. Fixed issue with show playback of recorded ArtNet when initiated with network link down.

\*Firmware version has been withdrawn from distribution and upgrade to higher version is recommended.

An internally accessible USB-C port is available device configuration without Network connection.

## MAIN FEATURES

- Wide input power range 7-28Vdc
- DIN rail mount 22.5mm wide
- Static or DHCP IPv4 network addressing
- Supported operating systems: Windows, MacOS, Linux, iOS, Android
- eDMX4 MAX ISODIN22 - 4x DMX512 Out or DMX512 In with Art-Net, sACN E1.31 and E1.20 RDM support
- Art-Net broadcast, Art-Net II,3 & 4 unicast, sACN/E1.31 Multicast and sACN Unicast support
- Merge 2 incoming Art-Net/sACN streams per output channel with both HTP and LTP options
- Merge Art-Net/sACN + DMX input -> DMX output(s)
- Merge 2x DMX input -> DMX output(s)
- Split 1x DMX input -> 3x DMX outputs
- sACN Priority takeover for multi-tier controller arrangements
- Mix and match ArtNet with sACN merge/priority sources
- DMX-IN and DMX-OUT channel offset re-mapping
- User configuration of Art-Net Node short and long names
- Fully compatible with all software and hardware that supports Art-Net I, II, 3 & 4 and sACN protocols
- Works with your existing console if Art-Net or sACN external nodes are supported
- Universe Sync Art-Net, sACN and Madrix Post Sync
- Recording and playback to microSD card (not included). See eDMX MAX Record / Playback manual
- Static scene recording and playback without requiring SD card. See eDMX MAX Record / Playback manual
- Standalone scene/show playback without computer or network connection
- Internal clock with optional battery backup for timed playback. NTP time sync
- Configuration utility with basic Art-Net output/input test functionality

eDMX MAX translates Art-Net 00:0:0 to Universe 1 (i.e. offset by 1) so there is an easy mapping between sACN/E1.31 and Art-Net.

## 2. EXTERIOR VIEW

### FRONT VIEW



Network 10/100Mbps RJ45 socket. Pluggable 2way 3.81mm pitch terminal block for 7-28Vdc power input. Four 4way 5mm pitch pluggable terminal block connectors for DMX512.

### STATUS LED TABLE

LED	Indication
Protocol	Protocol activity. Flash Red = Art-Net/sACN. Solid Red = Bootloader mode
Link/Act	Network activity. Green = Link, Flash = Traffic
Port A	DMX512 Port A TX/RX activity
Port B	DMX512 Port B TX/RX activity
Port C	DMX512 Port C TX/RX activity
Port D	DMX512 Port D TX/RX activity

### 3. DEFAULT CONFIGURATION

All eDMX4 MAX DIN units ship with default IP address settings. Please reconfigure network settings as required before use.

Parameter	Default Setting
IP Address	192.168.0.112
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.254
IGMPv2 Unsolicited Report	<i>Unchecked</i>
Network Mode	Static IP address

DMX512 Port configuration parameter defaults.

Parameter	Default Setting
Async Update Rate	40 [DMX512 frames per second]. Universe Sync will override.
Port Operation Mode	DMX-OUT
Timeout all sources	<i>Unchecked</i>
Channel Offset	0
Fixed IP	0.0.0.0 [Only for DMX IN – Unicast to 1 IP address only]
Merge Mode	HTP
Full DMX Frame	<i>Unchecked</i>
*Broadcast Threshold	10 [Art-Net II/3/4 unicasting up to 10 nodes]. Set to 0 for Art-Net I broadcast on DMX IN ports.
Unicast IP [DMX-IN]	0.0.0.0
sACN Priority [DMX-IN]	100
RDM Discovery Period [DMX-OUT]	0s / RDM Disabled
RDM Packet Spacing [DMX-OUT]	1/20s
DMX-OUT Failsafe Mode	Hold Last
Recall DMX Snapshot at startup	<i>Unchecked</i>
DMX512 Universe	1-4 [Net 00, Subnet 0, Universe 0-3] <b>Note: sACN Universe 1 = Art-Net 00:0:0</b>

\*Global threshold for all DMX-IN ports, configured only in Port A settings tab.

## 4. CONFIGURATION UTILITY

Download eDMX MAX Configuration Utility from <https://dmxking.com/downloads-list>

User manual for the utility [https://dmxking.com/downloads/eDMX MAX Configuration Utility User Manual \(EN\).pdf](https://dmxking.com/downloads/eDMX MAX Configuration Utility User Manual (EN).pdf)

## 5. TECHNICAL SPECIFICATIONS

- Dimensions: 22.5mm x 125mm x 100mm (WxHxD)
- Weight: 130 grams (0.29lbs)
- DC Power input 7-28Vdc, 3W max. Typical current consumption @ 12Vdc 200mA
- DMX512 connector: 4 way 5mm pitch terminal block.
- DMX512 ports electrically isolated.
- Optional Earth referenced DMX outputs – jumper wire between DMX Common and Earth on output connector.
- Ethernet 10/100Mbps Auto MDI-X port.
- Internal DMX512-A line biasing termination as per ANSI E1.20 RDM requirements
- Art-Net, Art-Net II, Art-Net 3, Art-Net 4 and sACN/E1.31 support.
- ANSI E1.20 RDM compliant with RDM over Art-Net.
- Universe Sync Art-Net, sACN and Madrix Post Sync.
- Both HTP and LTP merging of 2 Art-Net streams per port
- sACN Priority
- Internal merging capability with DMX In and DMX Out ports on same Universe.
- IPv4 Addressing
- IGMPv2 for multicast network management
- DMX512 Frame Rate: Adjustable per port
- Operating temperature -20°C to 50°C non-condensing dry environment

## 6. WARRANTY

### DMXKING HARDWARE LIMITED WARRANTY

#### **What is covered**

This warranty covers any defects in materials or workmanship with the exceptions stated below.

#### **How long coverage lasts**

This warranty runs for two years from the date of shipment from an authorized DMXking distributor.

#### **What is not covered**

Failure due to operator error or incorrect application of product.

#### **What DMXking will do**

DMXking will repair or replace, at its sole discretion, the defective hardware.

#### **How to obtain service**

Contact your local distributor <https://dmxking.com/distributors>



## 7. ACKNOWLEDGEMENTS

Art-Net™ Designed by and Copyright Artistic Licence

## 8. DECLARATIONS

The eDMX4 MAX ISODIN22 has been tested against applicable standards and certified compliant as below.

Standard	
IEC 62368-1	Audio/Video and ICTE Safety Requirements
IEC 55032	Radiated Emissions
IEC 55035	EMC Immunity Requirements
FCC Part 15	Radiated Emissions
RoHS 3	Restriction or Hazardous Substances

Certification	Country
CE	Europe
FCC	North America
RCM	New Zealand / Australia
UKCA	United Kingdom