

## ARTNET/SACN to DMX-RDM Controller

<b>Client</b>	
<b>Project</b>	
<b>Order Code</b>	
<b>QTY</b>	



### TITAN A8

#### Thank you for purchasing the Colordreamer Titan Artnet to DMX Controller!

Our manual will describe the installation and mounting of the product as well as description of how to use it.

Please read and understand this manual in its entirety before using the product.

This manual was written and published by Colordreamer Lighting and has the final right to interpret related products. The follow-up upgrade of related products may be slightly different from this manual, and the upgrade of the manual may not inform you in time. Please pay attention to the discrepancies between the actual product and the description in this manual.

#### Package Contents:

**1XTitan A8**

**1XPower Cord**

**1XRJ 45 Cable**

**Product Warranty is void if product is not installed as per installation instructions and in compliance with all local and provincial codes.**

## SAFETY RECOMMENDATIONS AND WARNINGS

Only use this device in dry environments (indoor use)

Do not make modifications or alter the product

Keep away from flammable material.

Do not use any silicone or other chemicals on outside surface.

Do not use chemicals or abrasives to clean the device as this may void the warranty.

Ensure installation complies with local electrical rules and regulations.

Ensure mains input power is surge protected

Do not connect or disconnect the device while the power is connected.

Connectors are to be kept clean and dry at all times.

Input Voltage range 100-240VAC

Power off the device during service or when not in use.

Twisted pair cable is recommended for data transmission

Avoid unwanted voltage on the DMX cables at all times.

Do not remove any parts from the unit including the plug ground pin or connect to an ungrounded circuit.

Do not connect the unit to LEDs that are switched on.

To supply this unit with power, first connect the provided power cord to the unit and then to a suitable power outlet.

## Product Overview

### Art-Net/Streaming ACN

Titan A8 Controller converts Art-Net or SACN(E1.31) data from Ethernet network to DMX512.

### 8 DMX Outputs+1 DMX-IN

Colordreamer Titan-A8 Controller has 8 Outputs.Each port 512Channels

The magnetic isolated outputs enable the DMX512 interface to transmit signals stably especially in complex engineering environment.

DMX external control can switch the recorded files to be played through the DMX input channel, as well as parameters such as playback speed and brightness

### RDM

Each output has a powerful RDM management function,which can search and configure lighting fixtures.

The discovered lighting fixtures is listed on the web page,and user can address each light and do monitoring.

### Daisy-Chain Support

2 Ethernet ports allow for separate network connections as well as linearly daisy-chaining several devices together.

### Easy Configuration

Adjust settings and address via the onboard oled screen menu or web browser.

The OK button is used to confirm your operation. Short press the OK button to enter the next menu, long press the OK button to return to the previous menu.

### Live Recording and Stand-Alone Playback

Titan A8 has the function of online recording and broadcasting. The controller has a built-in network data monitoring function, which can intercept and record all ArtNet data streams passing through the controller and save it onto the inserted memory card.

### Master-Slave Synchronization

In addition to playing the local data, Titan A8 can also be used as a master to drive other devices to play through the Ethernet network.

### 1U Profile

## Product Specification

Models	TITAN A8
<b>Electrical</b>	
Input Voltage	100-240VAC 50/60Hz C14 inlet
Power Consumption	<5W during operation
<b>Control</b>	
Network Protocols	Art-Net/Streaming ACN
DMX Outputs	8 Outputs(Each output 512DMX Channels)
DMX In	1X512 DMX Channels input
Ethernet	RJ45
Default IP	192.168.1.100
Default Subnet	255.255.255.0
Standalone Memory	Micro SD Card Max 32GB
Number of Scenes	Max 300 can be recorded
<b>Physical</b>	
Housing Material	Metal
Finish Color	Black
Connector	3pin/5pin xlr female
Dimensions(LXWxH)	483×125x45mm(1U)
Weight	
<b>Environment</b>	
Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Humidity	0-80% non-condensing
IP Rating	Dry, Indoor IP20
Certification	CE
Warranty	2Years Limited Warranty from the Date of Manufacture Contact us if you need extended warranty

## Supply of Power

To supply the unit with power, first connect the provided power cable to the unit 'POWER' and then to a suitable power outlet. The device uses main voltage (AC100V-240V)

## Connectivity



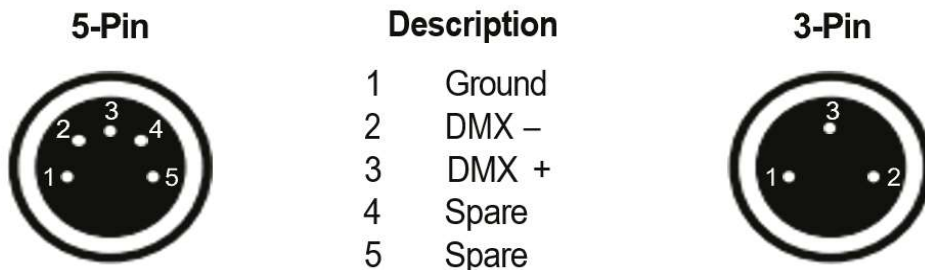
- 1: OLED Screen to display the configuration menu
2. Control Keys

The **Center ENTER button** is used to confirm your operation. **Short press the ENTER button** to enter the next menu, **long press the ENTER button** to return to the previous menu.

The UP/DOWN/LEFT and RIGHT keys

3. DMX IN
4. SD Card
5. Status LEDs
6. Ethernet in and thru port
7. DMX1-8

## 3-Pin And 5-Pin XLR Connector Layout



## Device Configuration Through onboard Screen and Navigation button

Titan A8 has 5 keys and OLED screen to configure device

The 5 key are [Up]-[Down]-[Left]-[Right]-[Enter], short press [Enter] to enter the next menu, long press the [Enter] key about 1 sec to return to the previous menu, press the [Up]-[Down] keys to select the menu items that need to be configured, and the [Left]-[Right] keys can be used as numeric cursors or keys for specific functions.

### Standby Screen:

When you are not performing a task within a menu, Titan A8 will display device information as below.

Node	PORTS
P1	0
P2	1
P3	2
P4	3
P5	4
P6	5
P7	6
P8	7

Press LEFT and RIGHT Key to find more information of this device.

Node	NETWORK	Node	ADDRESS	Node	RECORD
IP	192.168.1.100	Net	0	Up Key to record	
NMask	255.255.255.0				
Gate	192.168.1.1				

### Main menu

Press [Enter] Key to enter main menu as below

SETUP
Setup Port
Setup Device
Setup Mode
Setup Network
System Reset

### Setup Port

SET PORT									
Port-1	<table border="1"> <thead> <tr> <th colspan="2">CHANNEL</th> </tr> </thead> <tbody> <tr> <td>Enable</td> <td>off/on (off to close this output/on to enable this)</td> </tr> <tr> <td>Universe</td> <td>0 (assign virtual universe)</td> </tr> <tr> <td>Segment</td> <td>1</td> </tr> </tbody> </table>	CHANNEL		Enable	off/on (off to close this output/on to enable this)	Universe	0 (assign virtual universe)	Segment	1
CHANNEL									
Enable		off/on (off to close this output/on to enable this)							
Universe		0 (assign virtual universe)							
Segment		1							
Port-2									
Port-3									
Port-4									
Port-5									
Port-6									
Port-7									
Port-8									

### Setup Device

SET DEVICE	
Device Id	0 (ID of this device)
Run Mode	SD Player/Node/Semantic/Test Light/Upgrade
Screen Saver	60sec (Configure the screensaver time of the device, When the screensaver timeout, the screen will be turned off)
Setup DmxControl	Setup Address (One device has 14 channels for DMX in,configure the start address of DMX in)

### Setup Mode

SET MODE	
Recorder	Timed Record
SD Player	Play Speed Play Mode Single cycle/Single end/Auto to next Auto Play(Off/On)
ArtNet	Announce (On/Off)

## Setup Network

### SET NETWORK

Setup IP	192.168.1.100
Setup Netmask	255.255.255.0
Setup Gateway	192.168.1.1
Setup DHCP	Off/On

## System Reset

### SYSTEM RESET

SD Format

Factory Reset



## Device Configuration Through a Web Browser

You can access all settings and information of Titan Artnet Controller by using the built-in web configuration tool.

Step 1) Connect Titan Artnet Controller and your computer to the same network.

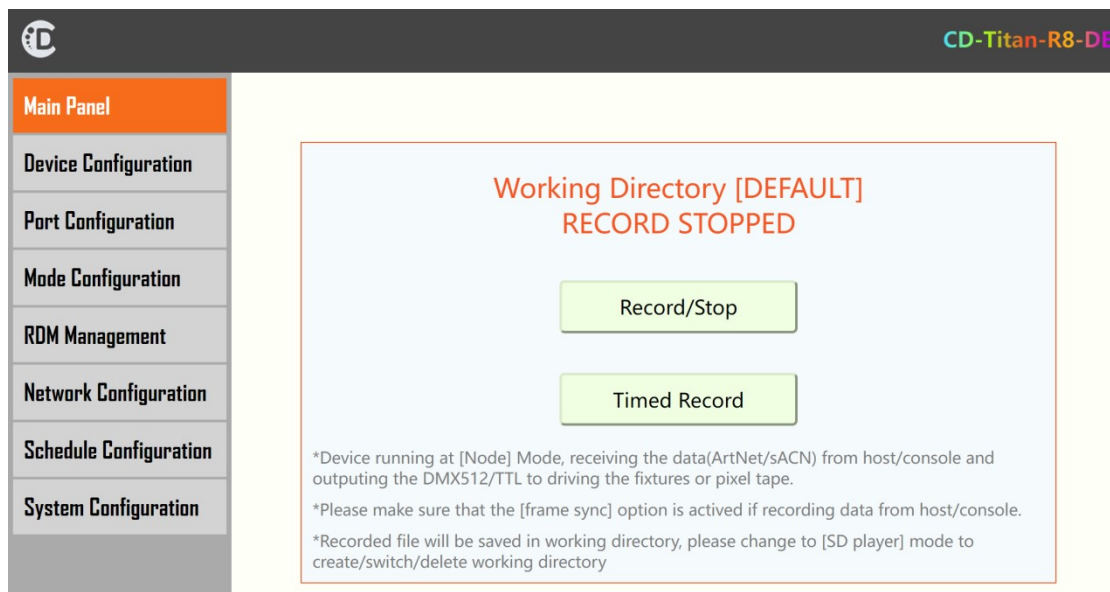
Artnet Controller Default IP 192.168.1.100

Step 2) Assign correct network settings for your computer in the operating system. (Recommended default settings:

IP address 192.168.1.XXX/ Subnet mask 255.255.255.0)


Step 3) Open your web browser and enter the IP address of Artnet Controller 192.168.1.100

Step 4) The web configuration tool will be launched.



**If access WEB failed, Use PING command on PC to test the connectivity!**

## Device Configuration


CD-Titan-R8-DE

Main Panel

**Device Configuration**

Port Configuration

Mode Configuration

RDM Management

Network Configuration

Schedule Configuration

System Configuration


Basic Setting | **Config Time** | Command Set | Config Password

CONFIG DEVICE

Run Mode:	Node
Device ID:	0
Device Type:	CD-Titan-R8-DE
Device Name:	CD-Titan-R8
Description:	Colordreamer Multi Protocol LED Controller
Screensaver(sec):	60
SD Card:	Free:29.72GB, Total:29.72GB
Version:	SW:v519, HW:v210, AC:0-0-0, PB:Apr 29 2024

Confirm
Refresh

## Port Configuration:


CD-Titan-R8-DE

Main Panel

Device Configuration

**Port Configuration**

Mode Configuration

RDM Management

Network Configuration

Schedule Configuration

System Configuration

Global Setting | **Port Attribute** | Port Address | Config Dimming | Config DMX512 | DMX512 Chip Addressing

GLOBAL SETTING

Port Type:	DMX
Sync Frame:	Timeout
Frame synchronization factor:	1000
Port Idle Action:	Normal
Idle action active time(ms):	1000

Confirm
Refresh

CD
CD-Titan-R8-DE

Global Setting
Port Attribute
Port Address
Config Dimming
Config DMX512
DMX512 Chip Addressing

Main Panel

Device Configuration

Port Configuration

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Schedule Configuration

System Configuration

PORT PROPERTIES							
Port ID	Protocol	Direction	Source Merge	Pixel Order	Pixel Expand	Birghtness	Confirm
1	ArtNet	Out	Disable	RGB	0	100	OK
2	ArtNet	Out	Disable	RGB	0	100	OK
3	ArtNet	Out	Disable	RGB	0	100	OK
4	ArtNet	Out	Disable	RGB	0	100	OK
5	ArtNet	Out	Disable	RGB	0	100	OK
6	ArtNet	Out	Disable	RGB	0	100	OK
7	ArtNet	Out	Disable	RGB	0	100	OK
8	ArtNet	Out	Disable	RGB	0	100	OK

Refresh

ID	Item	Description
1	Protocol	Configure the protocol of port, support ArtNet/sACN now
2	Direction	Set the direction of DMX port, the data flow can be setted to be ArtNet to DMX, or DMX to ArtNet
3	Source Merge	Support the HTP / LTP to merge multi source of net
4	Pixel Order	Adjust the pixel order of RGB fixture model
5	Pixel Expand	Expand the multi-pixel to one
6	Brightness	Adjust the brightness of fixture

CD-Titan-R8-DEU

Main Panel | Global Setting | Port Attribute | **Port Address** | Config Dimming | Config DMX512 | DMX512 Chip Addressing

Device Configuration

**Port Configuration**

Mode Configuration

RDM Management

Network Configuration

Schedule Configuration

System Configuration

PORT ADDRESS										
Port	Enable	Universe Number	Universe	Universe	Universe	Universe	Universe	Universe	Universe	Confirm
1	Enat	1	0							Ok
2	Enat	1	1							Ok
3	Enat	1	2							Ok
4	Enat	1	3							Ok
5	Enat	1	4							Ok
6	Enat	1	5							Ok
7	Enat	1	6							Ok
8	Enat	1	7							Ok

CD-Titan-R8-DEU

Main Panel | Global Setting | Port Attribute | Port Address | **Config Dimming** | Config DMX512 | DMX512 Chip Addressing

Device Configuration

**Port Configuration**

Mode Configuration

RDM Management

Network Configuration

Schedule Configuration

System Configuration

CONFIG DIMMING	
Brightness (0-100):	100
Weight Red (0-100) :	100
Weight Green (0-100) :	100
Weight Blue (0-100) :	100
Weight White (0-100) :	100
Gamma Adjust:	Disable
Gamma Value:	1.500000

Confirm Refresh

CD-Titan-R8-DEU

Main Panel | Global Setting | Port Attribute | Port Address | Config Dimming | **Config DMX512** | DMX512 Chip Addressing

Device Configuration

**Port Configuration**

Mode Configuration

RDM Management

Network Configuration

Schedule Configuration

System Configuration

CONFIG DMX512	
DMX512 Rate(kbps):	250
DMX512 Break Time(us):	176
DMX512 Mark Time(us):	25
DMX512 Pixel Model:	RGB

Confirm Refresh

\*Those parameter mandatory value for DMX512 standard, do NOT modify it unless necessary

CD-Titan-R8-DEU

Main Panel | Global Setting | Port Attribute | Port Address | Config Dimming | Config DMX512 | **DMX512 Chip Addressing**

Device Configuration

**Port Configuration**

Mode Configuration

RDM Management

Network Configuration

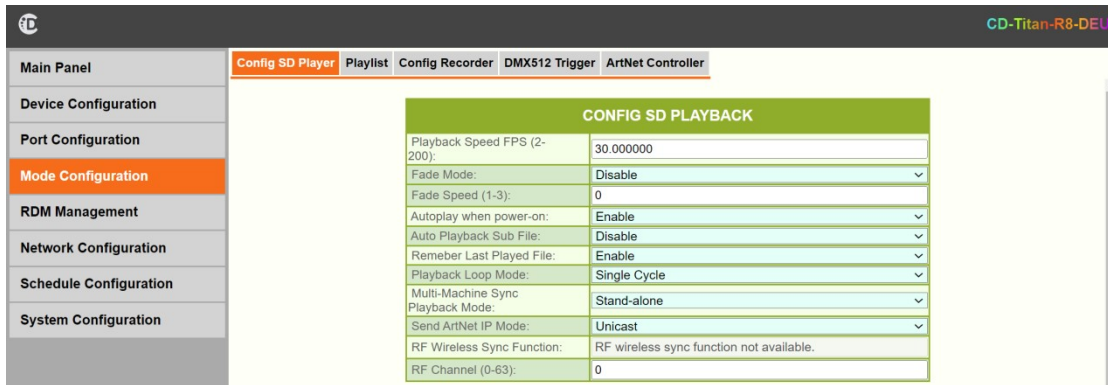
Schedule Configuration

System Configuration

DMX CHIP SETTING	
Port:	Port1
DMX512 Chip Type:	UCS512Cx
Action:	Set Address
Pixel Model:	RGB
Pixel Number:	
Address order:	Continuous
Set Address:	

Set

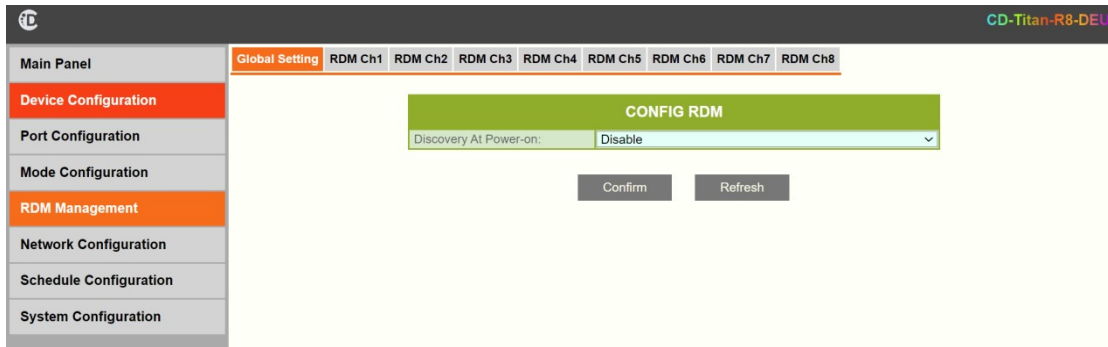
## Mode Configuration



The screenshot shows the 'Mode Configuration' page for a CD-Titan-R8-DEU device. The left sidebar contains a navigation menu with the following items: Main Panel, Device Configuration, Port Configuration, Mode Configuration (highlighted), RDM Management, Network Configuration, Schedule Configuration, and System Configuration. The main content area has a top navigation bar with 'Config SD Player', 'Playlist', 'Config Recorder', 'DMX512 Trigger', and 'ArtNet Controller'. The 'Config SD Player' tab is active, displaying a 'CONFIG SD PLAYBACK' form with the following fields:

Playback Speed FPS (2-200):	30.000000
Fade Mode:	Disable
Fade Speed (1-3):	0
Autoplay when power-on:	Enable
Auto Playback Sub File:	Disable
Remember Last Played File:	Enable
Playback Loop Mode:	Single Cycle
Multi-Machine Sync Playback Mode:	Stand-alone
Send ArtNet IP Mode:	Unicast
RF Wireless Sync Function:	RF wireless sync function not available.
RF Channel (0-63):	0

## RDM Management

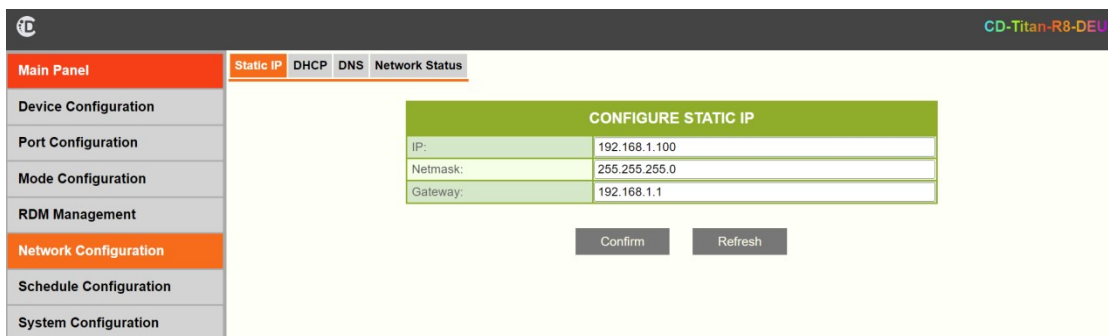


The screenshot shows the 'RDM Management' page for a CD-Titan-R8-DEU device. The left sidebar contains a navigation menu with the following items: Main Panel, Device Configuration, Port Configuration, Mode Configuration, RDM Management (highlighted), Network Configuration, Schedule Configuration, and System Configuration. The main content area has a top navigation bar with 'Global Setting', 'RDM Ch1', 'RDM Ch2', 'RDM Ch3', 'RDM Ch4', 'RDM Ch5', 'RDM Ch6', 'RDM Ch7', and 'RDM Ch8'. The 'Global Setting' tab is active, displaying a 'CONFIG RDM' form with the following field:

Discovery At Power-on:	Disable
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Below the form are two buttons: 'Confirm' and 'Refresh'.

## Network Configuration

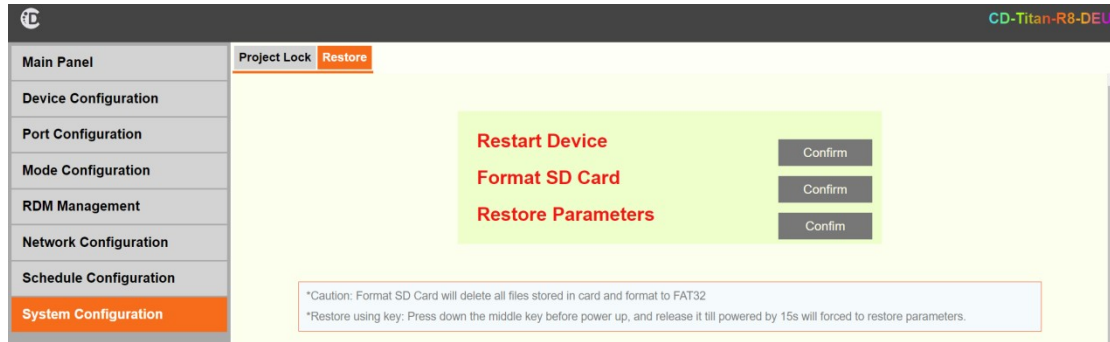


The screenshot shows the 'Network Configuration' page for a CD-Titan-R8-DEU device. The left sidebar contains a navigation menu with the following items: Main Panel, Device Configuration, Port Configuration, Mode Configuration, RDM Management, Network Configuration (highlighted), Schedule Configuration, and System Configuration. The main content area has a top navigation bar with 'Static IP', 'DHCP', 'DNS', and 'Network Status'. The 'Static IP' tab is active, displaying a 'CONFIGURE STATIC IP' form with the following fields:

IP:	192.168.1.100
Netmask:	255.255.255.0
Gateway:	192.168.1.1

Below the form are two buttons: 'Confirm' and 'Refresh'.

## System Configuration



The screenshot shows a web interface for system configuration. On the left is a navigation menu with the following items: Main Panel, Device Configuration, Port Configuration, Mode Configuration, RDM Management, Network Configuration, Schedule Configuration, and System Configuration (highlighted in orange). The main content area has a dark header with a 'CD' icon and 'CD-Titan-R8-DEU' text. Below the header, there are two buttons: 'Project Lock' and 'Restore'. The main area contains a light green box with three red text options: 'Restart Device', 'Format SD Card', and 'Restore Parameters'. Each option has a corresponding 'Confirm' button to its right. At the bottom of the main area, there is a white box with two lines of cautionary text: '\*Caution: Format SD Card will delete all files stored in card and format to FAT32' and '\*Restore using key: Press down the middle key before power up, and release it till powered by 15s will forced to restore parameters.'