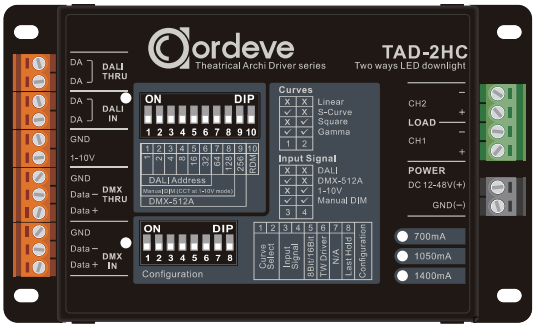
TAD - 2HC, LED 2 ways driver

Theatrical standard

TAD-2HC is a compact driver box, specially design for driving all common COB LED downlights of 20W to 50W within 12-48 V. It gives you all the mood that traditional tungsten lamp created in the stall area of an auditorium.

TAD-2HC accepts 4 type of input signals, DMX-512A (RDM), DALI, 1-10VDC and manual dim which offer your greatest comfort in using it with various control systems. Whatever input signals you selected to use, there are 4 dimming curves, namely Linear, Square, S-Curve, GAMMA curve(standard DALI curve) and 2 control mode, 8 bit or 16 bit, for your choice.



Being able to match with different input voltage and wattage of the downlights, it can be set to work in 700mA, 1050mA and 1400mA constant current output.

TAD-2HC is a dual channel driver. It can be used as 2 independent channels to drive 2 downlights to save system cost or as dual channels to drive Colordeve TAD Tuneable white downlight for applications required colour temp matching.

Smooth dimming from 1-100% is achieved in TAD-2HC thanks to the advance Pulse Density Modulation (PDM) methodology inside.

Emergency Switch On DALI (ESOD) can switch the output to assigned setup level plus 10% on top of : 30%, 50%, 70%, 90% by detecting DALI signal in higher than the setup level in parallel with DMX signal is working.

Features

- 2 independent channel output or set as dual channel for Colordeve TAD-HL-TW series tunable white downlight
- Each load output is designed for 20-50W downlight
- 4 types of input signals can be selected: DMX-512A, DALI, 1-10VDC and manual dim
- 3 constant current output choices: 700mA, 1050mA and 1400mA
- 4 dimming curves: linear, square, S-curve and GAMMA
- Selectable 8 bit or 16 bit control mode for all input signal types
- RDM working status feedback for systen monitoring
- Perfect dimming range from 1-100% by PDM in 19bit resolution
- "Last hold" function available for non black out scene
- POOS(Power On Output Status) enabled can allow output at preset level (set by RDM) when power on without DMX presence
- ESOD(Emergency Switch On DALI) allow to trigger output level by the backup system with DALI signal
- Accept wide range of input voltage from 12-48VDC
- 2 & 3 pin detachable terminal connections
- CE marked
- 3 years warranty

Theatre Architechtural Driver series

TAD - 2

Specifications

Input Signals

DMX-512A(RDM)
DALI (4 dimming curves available)
1-10VDC
Manual DIM

Dimming Curves

Linear
Square
S-curve
GAMMA curve**Input Signals**

Physical

Signal:	2 & 3 pin detachable terminal connectors ; DMX-512A(RDM), DALI, 1-10VDC
Input Power:	2 pin detachable terminal connectors; 12 - 48VDC / 2.2A(max)
Dimensions :	120mm(L) x 72mm(W) x 23mm (H)
Weight:	300 gram

CE Marked

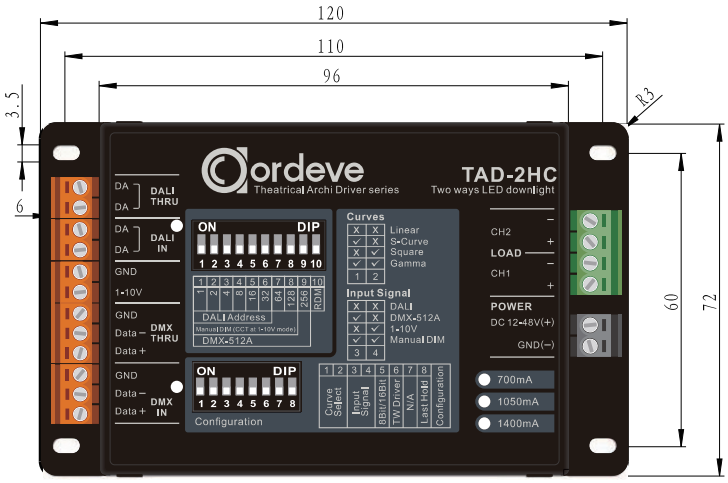
RDM Informations

DEVICE_INFO:	Labels of Manufacturer, Device, Model & Software version
STATUS_ID_DESCRIPTION:	DALI On/Off, DMX On/Off, Load Current(700mA/1050mA/1400mA)
FACTORY_DEFAULT:	Let all setting back to the DipSW status
DMX_START_ADDRESS:	Remote DMX start address set
SENSOR_VALUE:	Feedback the Driver temperature, 1-10V voltage, Load Intensity in percentage

Setup Information

1.Select the dimming curve using pin 1 & 2 (Configuration Dip Switch)
2.Select the type of input signal using pin 3 & 4 (Configuration Dip Switch) and connect the signal wire to appropriate terminals
3.Open the backside cover and set the constant current rating required 700mA, 1050mA or 1400mA, default setting at 700mA
4.Connect the 2 load outputs to the downlights
5.Connect the DC power input
6.If manual DIM is the input mode, set the dimming level using the Address Dip Switch
7.Set the DALI or DMX address using the Address Dip Switch
8.Turn on the input signal.

Dimensions



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URL: www.colordeve.com
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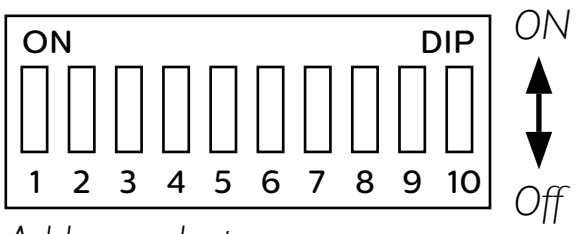
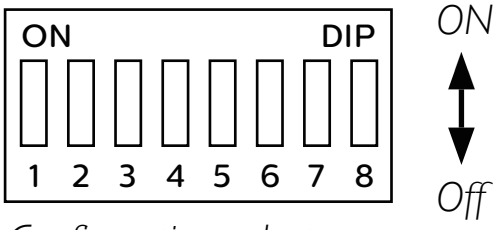
TAD - 2HC, LED 2 ways driver

Features setting guide

Hardware setting - DipSwitch



Address select
(Putting ON position to select)



Configuration select
(Putting ON position to select)

Virtural setting - RDM tools

Use a standard DMX-512(RDM) tools to connect the driver. Use command GET & SET to configurate the RDM setup functions.

POOS *(Power On Output Status)*
You can let your driver automatically turn on the output when power On at DMX mode.
POOS : 0-disable, 1-Enable
POOS level: 1-25%, 2-50%, 3-75%, 4-100%
(Default value at enable & 75%)

ESOD *(Emmergency Switch On DALI)*
You can make the driver as an emmergency switch at DMX mode and monitoring with the DALI signal at the same time as emmergency signal
ESOD : 0-disable, 1-Enable
ESOD level: 1-30% DALI detect, output 40%
2-50% DALI detect, output 60%
3-70% DALI detect, output 80%
4-90% DALI detect, output 100%
(Default value at disable & 90%)

Selecting start address for driver

DALI signal
Use Pin 1 - 6 (address #1 - #64)
Remark : Set driver to DALI signal enable

Manual Dim
Use Pin 1 - 8 (dimming level 1 - 256)
Remark : Set driver to Manual dim enable

DMX-512 signal
Use Pin 1 - 9 (address#1 - #512)
Remark : Set driver to DMX signal enable

Pin 10 : RDM enable

Selecting functional features

1&2 Curves select
Pin1 Off & Pin2 Off : Linear
Pin1 On & Pin2 Off : S curve
Pin1 Off & Pin2 On : Square curve
Pin1 On & Pin2 On : Gamma curve

3&4 Input Signal
Pin3 Off & Pin4 Off : DALI signal
Pin3 On & Pin4 Off : DMX-512(1990)
Pin3 Off & Pin4 On : 1-10V analogue
Pin3 On & Pin4 On : Manual Dim
(Use address DipSW to select levels)

5 *8/16 bit operation*
Pin5 On: 16 bit operation
(both 8/16 bit setup are working in 19bit PDM internally)

6 *TW(Tunable White driving mode)*
Pin6 On to enable TW driving on both Channel 1&2
Control channel 1: Intensity
Control channel 2 : CCT

7 *N/C*
Pin7 with NO function at all

8 *Last Hold*
Pin8 On to enable Last DMX signal Hold

Colordeve Asia Limited
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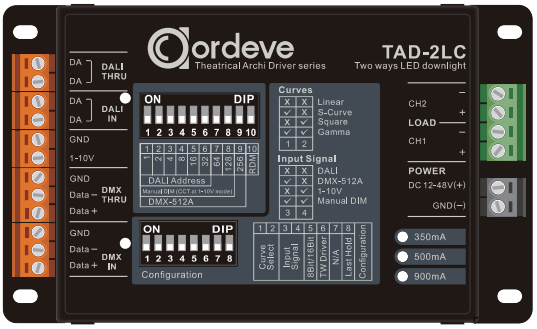
TAD - 2LC, LED 2 ways driver

Theatrical standard

TAD-2LC is a compact driver box, specially design for driving all common COB LED downlights of 10W to 30W within 12-48 V. It gives you all the mood that traditional tungsten lamp created in the stall area of an auditorium.



TAD-2LC accepts 4 type of input signals, DMX-512A (RDM), DALI, 1-10VDC and manual dim which offer your greatest comfort in using it with various control systems. Whatever input signals you selected to use, there are 4 dimming curves, namely Linear, Square, S-Curve, GAMMA curve(standard DALI curve) and 2 control mode, 8 bit or 16 bit, for your choice.

Being able to match with different input voltage and wattage of the downlights, it can be set to work in 350mA, 500mA and 900mA constant current output.

TAD-2LC is a dual channel driver. It can be used as 2 independent channels to drive 2 downlights to save system cost or as dual channels to drive Colordeve TAD Tuneable white downlight for applications required colour temp matching.

Smooth dimming from 1-100% is achieved in TAD-2LC thanks to the advance Pulse Density Modulation (PDM) methodology inside.

Emergency Switch On DALI (ESOD) can switch the output to assigned setup level plus 10% on top of : 30%, 50%, 70%, 90% by detecting DALI signal in higher than the setup level in parallel with DMX signal is working.

Features

- 2 independent channel output or set as dual channel for Colordeve TAD-HL-TW series tunable white downlight
- Each load output is designed for 10-30W downlight
- 4 types of input signals can be selected: DMX-512A, DALI, 1-10VDC and manual dim
- 3 constant current output choices: 350mA, 500mA and 900mA
- 4 dimming curves: linear, square, S-curve and GAMA
- Selectable 8 bit or 16 bit control mode for all input signal types
- RDM working status feedback for systen monitoring
- Perfect dimming range from 1-100% by PDM in 19bit resolution
- "Last hold" function available for non black out scene
- POOS(Power On Output Status) enabled can allow output at preset level (set by RDM) when power on without DMX presence
- ESOD(Emergency Switch On DALI) allow to trigger output level by the backup system with DALI signal
- Accept wide range of input voltage from 12-48VDC
- 2 & 3 pin detachable terminal connections
- CE marked
- 3 years warranty

Theatre Architechtural Driver series

TAD - 2

Specifications

Input Signals

DMX-512A(RDM)
DALI (4 dimming curves available)
1-10VDC
Manual DIM

Dimming Curves

Linear
Square
S-curve
GAMMA curve

Physical

Signal:	2 & 3 pin detachable terminal connectors ; DMX-512A(RDM), DALI, 1-10VDC
Input Power:	2 pin detachable terminal connectors; 12 - 48VDC / 2.2A(max)
Dimensions :	120mm(L) x 72mm(W) x 23mm (H)
Weight:	300 gram

CE Marked

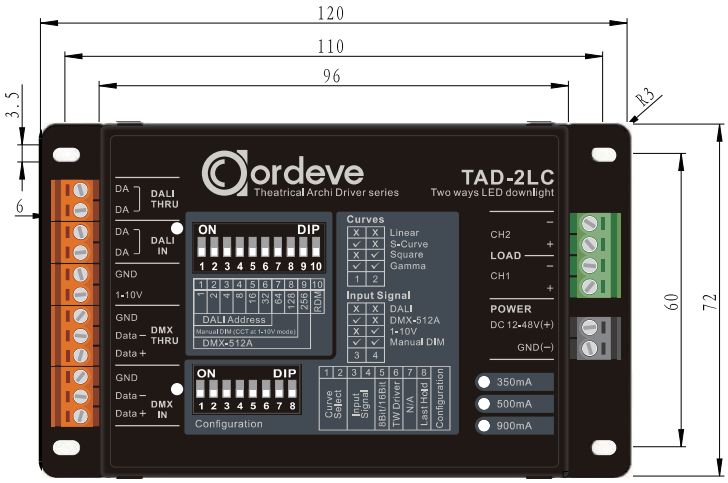
RDM Informations

DEVICE_INFO:	Labels of Manufacturer, Device, Model & Software version
STATUS_ID_DESCRIPTION:	DALI On/Off, DMX On/Off, Load Current(350mA/500mA/900mA)
FACTORY_DEFAULT:	Let all setting back to the DipSW status
DMX_START_ADDRESS:	Remote DMX start address set
SENSOR_VALUE:	Feedback the Driver temperature, 1-10V voltage, Load Intensity in percentage

Setup Information

1.Select the dimming curve using pin 1 & 2 (Configuration Dip Switch)
2.Select the type of input signal using pin 3 & 4 (Configuration Dip Switch) and connect the signal wire to appropriate terminals
3.Open the backside cover and set the constant current rating required 350mA, 500mA or 900mA, default setting at 350mA
4.Connect the 2 load outputs to the downlights
5.Connect the DC power input
6.If manual DIM is the input mode, set the dimming level using the Address Dip Switch
7.Set the DALI or DMX address using the Address Dip Switch
8.Turn on the input signal.

Dimensions



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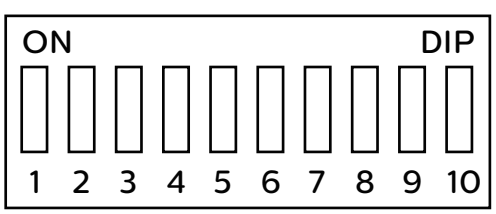
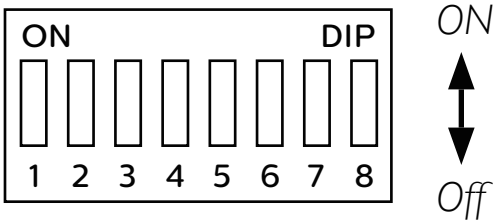
TAD - 2LC, LED 2 ways driver

Features setting guide

Hardware setting - DipSwitch



Address select
(Putting ON position to select)



Configuration select
(Putting ON position to select)

Virtural setting - RDM tools

Use a standard DMX-512(RDM) tools to connect the driver. Use command GET & SET to configurate the RDM setup functions.

POOS *(Power On Output Status)*
You can let your driver automatically turn on the output when power On at DMX mode.
POOS : 0-disable, 1-Enable
POOS level: 1-25%, 2-50%, 3-75%, 4-100%
(Default value at enable & 75%)

ESOD *(Emmergency Switch On DALI)*
You can make the driver as an emmergency switch at DMX mode and monitoring with the DALI signal at the same time as emmergency signal
ESOD : 0-disable, 1-Enable
ESOD level: 1-30% DALI detect, output 40%
2-50% DALI detect, output 60%
3-70% DALI detect, output 80%
4-90% DALI detect, output 100%
(Default value at disable & 90%)

Selecting start address for driver

DALI signal
Use Pin 1 - 6 (address #1 - #64)
(Remark : Set driver to DALI signal enable)

Manual Dim
Use Pin 1 - 8 (dimming level 1 - 256)
(Remark : Set driver to Manual dim enable)

DMX-512 signal
Use Pin 1 - 9 (address#1 - #512)
(Remark : Set driver to DMX signal enable)

Pin 10 : RDM enable with DMX-512A

Selecting functional features

1&2 Curves select
Pin1 Off & Pin2 Off : Linear
Pin1 On & Pin2 Off : S curve
Pin1 Off & Pin2 On : Square curve
Pin1 On & Pin2 On : Gamma curve

3&4 Input Signal
Pin3 Off & Pin4 Off : DALI signal
Pin3 On & Pin4 Off : DMX-512(1990)
Pin3 Off & Pin4 On : 1-10V analogue
Pin3 On & Pin4 On : Manual Dim
(Use address DipSW to select levels)

5 *8/16 bit operation*
Pin5 On: 16 bit operation
(both 8/16 bit setup are working in 19bit PDM internally)

6 *TW(Tunable White driving mode)*
Pin6 On to enable TW driving on both Channel 1&2
Control channel 1: Intensity
Control channel 2 : CCT

7 *N/C*
Pin7 with NO function at all

8 *Last Hold*
Pin8 On to enable Last DMX signal Hold

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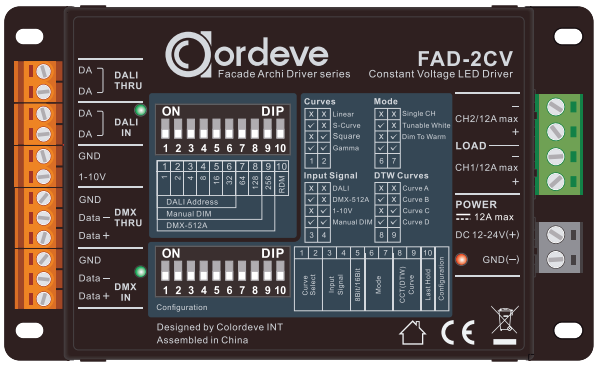
FAD - 2CV, LED 2 ways driver

Architainment standard

FAD-2CV is a compact driver box, specially design for driving all common LED dots, strips, linear and piece of wash in total 12Amp within 12 - 24VDC supply. It can gives you the extra mood with your selected curves on 1 single channel or 2 dual channels - tunable White / Dim to Warm applications.



FAD-2CV accepts 4 types of input signal, DMX-512A (RDM), DALI, 1-10VDC and manual dim which offer your greatest comfort in using it with various control systems. Whatever input signals you selected to use, there are 4 dimming curves, namely Linear, Square, S-Curve, GAMA(standard DALI curve) and 2 control mode, 8 bit or 16 bit, for your choice.

FAD-2CV is a dual channel driver working in constant voltage mode. It can be used as 2 independent channels to drive 2 single of LED DC power line to save system cost or as dual channels to drive Colordeve FAD Tuneable white and DTW(Dim to White) down-light for applications required colour temp matching.

Smooth dimming from 1-100% is achieved in FAD-2CV thanks to the advance Pulse Density Modulation (PDM) methodology inside. Mostly on the very low level can be hold in stable by the Hard Firing technology.

Features

- 2 independent channel output or set as dual channel for Colordeve TAD-HL-TW series tunable white or DTW (TAD-HL-DTW) downlight
- Each load is designed for 12Amp output in total 12A max on 2 loads.
- 4 types of input signals can be selected: DMX-512A, DALI, 1-10VDC and manual dim
- 4 DTW curves choices on Dim to White lamps : -
  - A: Warm up type
  - B: Less Warm up type
  - C: Black body type
  - D: Halogen type
- Hard Firing technology can offer you a stable dimming at the very low level start of 1/256
- POOS(Power On Output Status) enabled can allow output at preset level (set by RDM) when power on without DMX presence
- "Last hold" function available for non black out scene
- 4 dimming curves: linear, square, S-curve and GAMMA
- Selectable 8 bit or 16 bit control mode for all input signal types
- RDM working status feedback for systen monitoring
- Perfect dimming range from 1-100% by PDM in 19bit resolution
- Output Last hold when signal lost on DALI and DMX
- Accept wide range of input voltage from 12-24VDC
- 2 & 3 pin detachable terminal connections
- CE marked
- 3 years warranty

Facade Architechtural Driver series

FAD - 2CV

Specifications

Input Signals

DMX-512A(RDM)
DALI (4 dimming curves available)
1-10VDC
Manual DIM

Dimming Curves

Linear
Square
S-curve
GAMA

DTW Curves

A: Warm up type
B: Less Warm up
C: Black body type
D: Halogen type

Physical

Signal:	2 & 3 pin detachable terminal connectors ; DMX-512A(RDM), DALI, 1-10VDC
Input Power:	2 pin detachable terminal connectors; 12 - 24VDC / 12A(max)
Dimensions :	120mm(L) x 72mm(W) x 23mm (H)
Weight:	300 gram

CE Marked

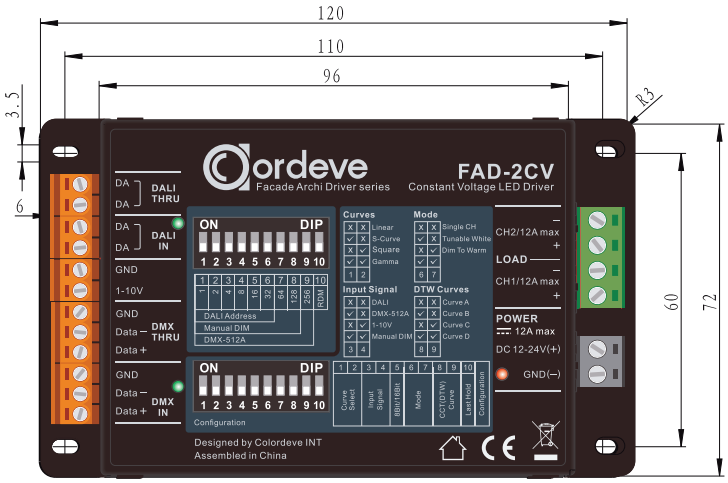
RDM Informations

DEVICE_INFO:	Labels of Manufacturer, Device, Model & Software version
STATUS_ID_DESCRIPTION:	DALI On/Off, DMX On/Off, Load Current
FACTORY_DEFAULT:	Let all setting back to the DipSW status
DMX_START_ADDRESS:	Remote DMX start address set
SENSOR_VALUE:	Feedback the Driver temperature, 1-10V voltage, Load Intensity in percentage

Setup Information

1.Select the dimming curve using pin 1 & 2 (Configuration Dip Switch)
2.Select the type of input signal using pin 3 & 4 (Configuration Dip Switch) and connect the signal wire to appropriate terminals
3.Connect the 2 load outputs to the DC power line of fixtures
5.Connect the DC power input
6.If manual DIM is the input mode, set the dimming level using the Address Dip Switch
7.Set the DALI or DMX address using the Address Dip Switch
8.Turn on the input signal.

Dimensions



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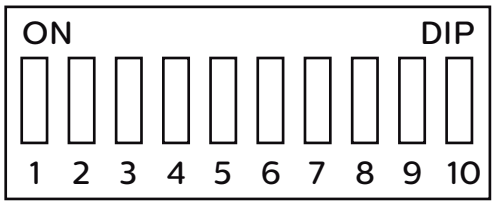
FAD - 2CV, LED 2 ways driver

Features setting guide

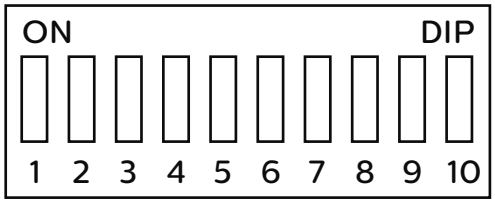
Hardware setting - DipSwitch



ON

Off

Address select
(Putting ON position to select)



ON

Off

Configuration select
(Putting ON position to select)

Virtural setting - RDM tools

Use a standard DMX-512(RDM) tools to connect the driver. Use command GET & SET to configurate the RDM setup functions.

POOS *(Power On Output Status)*
You can let your driver automatically turn on the output when power On at DMX mode.
POOS : 0-disable, 1-Enable
POOS level: 1-25%, 2-50%, 3-75%, 4-100%
(Default value at enable & 75%)

ESOD *(Emmergency Switch On DALI)*
You can make the driver as an emmergency switch at DMX mode and monitoring with the DALI signal at the same time as emmergency signal
ESOD : 0-disable, 1-Enable
ESOD level: 1-30% DALI detect, output 40%
2-50% DALI detect, output 60%
3-70% DALI detect, output 80%
4-90% DALI detect, output 100%
(Default value at disable & 90%)

Selecting start address for driver

DALI signal
Use Pin 1 - 6 (address #1 - #64)
(Remark : Set driver to DALI signal enable)

Manual Dim
Use Pin 1 - 8 (dimming level 1 - 256)
(Remark : Set driver to Manual dim enable)

DMX-512 signal
Use Pin 1 - 9 (address#1 - #512)
(Remark : Set driver to DMX signal enable)

Pin 10 : RDM enable with DMX-512A

Selecting functional features

1&2 Curves select
Pin1 Off & Pin2 Off : Linear
Pin1 On & Pin2 Off : S curve
Pin1 Off & Pin2 On : Square curve
Pin1 On & Pin2 On : Gamma curve

3&4 Input Signal
Pin3 Off & Pin4 Off : DALI signal
Pin3 On & Pin4 Off : DMX-512(1990)
Pin3 Off & Pin4 On : 1-10V analogue
Pin3 On & Pin4 On : Manual Dim
(Use address DipSW to select levels)

5 *8/16 bit operation*
Pin5 On: 16 bit operation
(both 8/16 bit setup are working in 19bit PDM internally)

6&7 *Working modes*
Pin6 Off & Pin7 Off : 2 single channels operation
Pin6 On & Pin7 Off : TW(tunable White)
Enable TW driving with both Channel 1&2
Control channel 1: Intensity
Control channel 2 : CCT
Pin6 Off & Pin7 On : DTW(Dim to Warm)
Enable DTW driving with both Channel 1&2

8&9 *DTW curves*
Pin8 Off & Pin9 Off : A-Warm up
Pin8 On & Pin9 Off : B-Less Warm up
Pin8 Off & Pin9 On : Black body
Pin8 On & Pin9 On : Halogen

10 *Last Hold*
Pin10 On to enable Last DMX signal Hold

Colordeve Asia Limited
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FAD - 8PWRDRV, LED Power driver

Architainment standard

FAD-8PWRDRV is a 8 channels constant voltage compact driver box, can drive 2 independent channel set output. Specially design for driving all common LED dots, strips, linear and piece of wash in total 240 Watt max. with a built in reliable high power factor power supply unit, switchable12 or 24 VDC to your working loads.

2 sets of Common positive, 5 pins detachable socket. Configurative to output modes 1-4 channels, TW or DTW with over load (10A) protection(blink Red indicator) on each port. Working status indicator Red blink to show over temperature and less the output level to safe your performance without stop of interrupt.

As what the advantages of a Colordeve drivers, you can have all DLS 19 bit (524288 steps) resolution dimming, 4 types of dimming curves, DMX-512 signal Last hold & POOS(Power On Output Status).

Conventional cooling design with special design bracket for single unit wall mount. Or maximum 8 units of driver can be put together into an accessories 3U rack mount cabinet with intellegent fan speed control (3 fans on rack) via the IR sensoring communication technology from each single driver body temperature cool down by the Fans speed adjustment. This is an ideal installation by racks locate at the power plant room, running distance of cables to your lighting LEDs load.

Features

- 2 independent channel set output, 4Channels RGBW/3Channels RGB/4 mono channels/TW/DTW
- Each load set is designed for 240 Watt max. output(Total in 240W on both 12V&24VDC operation)
- 4 DTW curves choices on Dim to White lamps : -
  - A: Warm up
  - B: Less Warm up
  - C: Black body line
  - D: Halogen lamp
- Hard Firing technology can offer you a stable dimming at the very low level start of 1/256
- POOS(Power On Output Status) enabled can allow output at preset level (set by RDM) when power on without DMX presence
- "Last hold" function available for non black out scene
- 4 dimming curves: linear, square, S-curve and Gamma
- Selectable 8 bit or 16 bit control mode for all input signal types
- RDM working status feedback for system monitoring
- Perfect dimming range from 0 -100% by PDM in 19bit (524288 steps) resolution
- Switchable operation voltage 12VDC or 24VDC
- Special design bracket can change the mounting methods in Wall or Rack
- Optional 3U size fan speed controllable rack cabinet can be fit for max 8 units of driver
- 2 & 3 pin detachable terminal connections
- CE marked
- 2 years warranty

Facade Architechtural Driver series

FAD - 8PWRDRV

Specifications

Input Signals
DMX-512A(RDM)

Output modes
1 Channel
2 Channels
3 Channels
4 Channels
Tunable White
Dim to Warm

DTW Curves
A: Warm up
B: Less Warm up
C: Black body line
D: Halogen lamp

Dimming Curves
Linear
Square
S-curve
Gamma

Physical

Signal:	2 & 3 pin detachable terminal connectors ; DMX-512A(RDM),
Input Power:	100 - 240VAC (2A@120V, 1.04A@230V) IEC connector
Output:	2 sets of 4 ways, Common V+ Total 240Wattage, 12V or 24V switchable
Dimensions :	297mm(L) x 126.5mm(W) x 44.5mm (H)
Weight:	2.1 kg

CE Marked

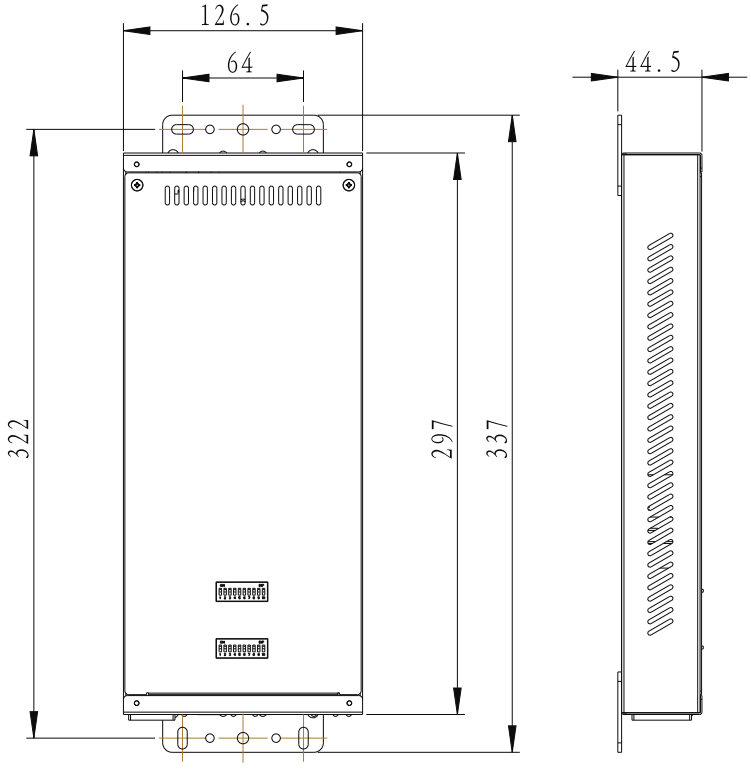
RDM Informations

DEVICE_INFO:	Labels of Manufacturer, Device, Model & Software version
FACTORY_DEFAULT:	Let all setting back to the DipSW status
DMX_START_ADDRESS:	Remote DMX start address set
SENSOR_VALUE:	Feedback the Driver temperature, Load Intensity in percentage

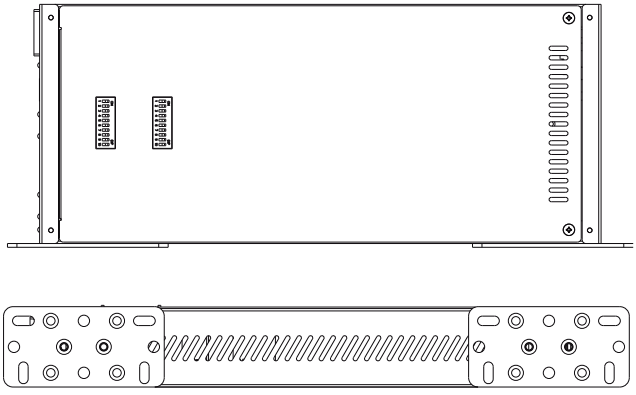
Setup Information

1.Select the dimming curve using pin 1 & 2 (Configuration Dip Switch)
2.Select the type of input signal using pin 3 (Configuration Dip Switch) and connect the signal wire to the terminal if DMX is selected
3. Select Output modes using pin 4-6, 8/16bit DMX signal on pin7, DTW curves on pin 8 & 9, DMX last hold & POOS on pin 10.
4.Connect your 2 sets of load to the Port A & B
5.Select built in PSU voltage to 12V or 24V operaton
6.If manual DIM is the input mode, set the dimming level using the Address Dip Switch
7.Set the DMX address using the Address Dip Switch, pin 10 on DMX address dipSW suggest to keep it "On" to enable RDM available
8.Turn on the input signal.

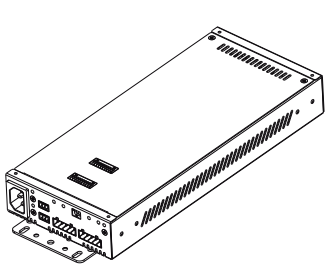
Dimensions



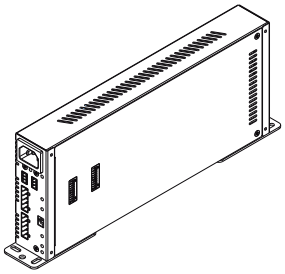
Wall mount type bracket installed



Rack mount type bracket installed



Wall mount type



Rack mount type

Colordeve International Company Limited
URL: www.colordeve.com
Email: info@colordeve.com

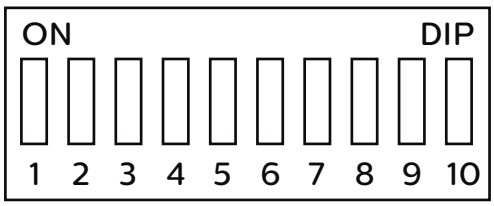
FAD - 8PWRDRV, LED 2 set 4 ways driver

Features setting guide

Select output driving voltage

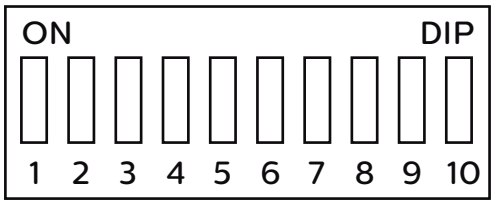
At the driver top you can click the protection door out and do the voltage selection 12V/24V by the switch.
(default : 12VDC set)

Hardware setting - DipSwitch



ON
Off

Address select
(Putting ON position to select)



ON
Off

Configuration select
(Putting ON position to select)

Selecting start address for driver

Manual Dim
Use Pin 1 - 8 (dimming level 1 - 256)
(Remark : Set driver to Manual dim enable)

DMX-512 signal
Use Pin 1 - 9 (address#1 - #512)
(Remark : Set driver to DMX signal enable)

Pin 10 : RDM enable with DMX-512A

Selecting functional features

1&2 *Curves select*
Pin1 Off & Pin2 Off : Linear
Pin1 On & Pin2 Off : S curve
Pin1 Off & Pin2 On : Square curve
Pin1 On & Pin2 On : Gamma curve

3 *Input Signal*
Pin3 Off : DMX-512(1990)
Pin3 On : Manual Dim
(Use address DipSW to select levels)

4-6 *Working modes*
Pin4 Off, Pin5 Off & Pin6 Off : 1 channel
Pin4 On, Pin5 Off & Pin6 Off : 2 channel
Pin4 Off, Pin5 On & Pin6 Off : 3 channel
Pin4 On, Pin5 On & Pin6 Off : 4 channel
Pin4 Off, Pin5 Off & Pin6 On : TW(tunable White)
Enable TW driving with 2 output pins
First control channel : Dim master
Second control channel : CCT
(Please read the silkscreen table for more details)
Pin4 On, Pin5 On & Pin6 On : DTW(Dim to Warm)
Enable DTW driving with 2 output pins
2 output pins for 1 single control channel
(Please read the silkscreen table for more details)

7 *8/16 bit operation*
Pin7 On: 16 bit operation
(both 8/16 bit setup are working in 19bit PDM internally)

8&9 *DTW curves*
Pin8 Off & Pin9 Off : A-Warm up
Pin8 On & Pin9 Off : B-Less Warm up
Pin8 Off & Pin9 On : Black body
Pin8 On & Pin9 On : Halogen

10 *Last Hold & POOS*
Pin10 On to enable Last DMX signal Hold & POOS

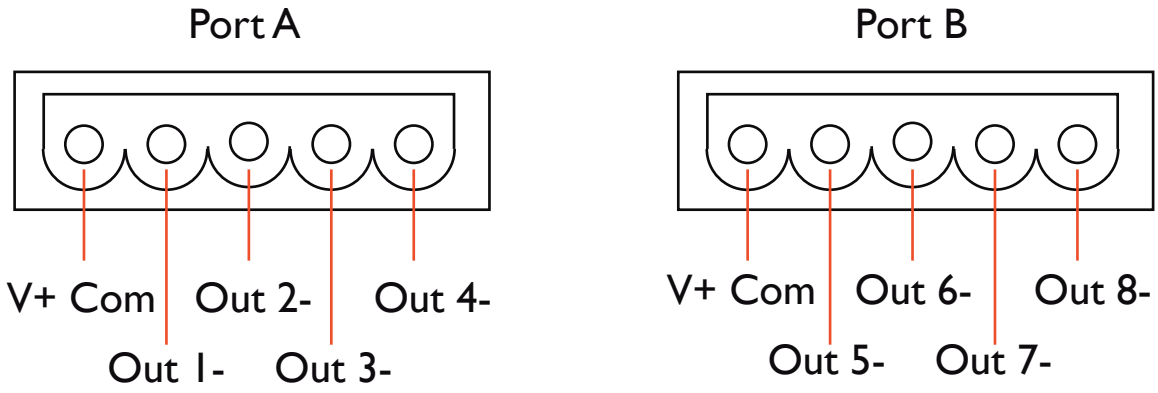
***POOS** (Power On Output Status)*
You can let your driver automatically turn on the output when power On at DMX mode.
POOS : 0-disable, 1-Enable (Configuration DipSW pin 10)

POOS level: 1-25%, 2-50%, 3-75%, 4-100%
(POOS level can select via the RDM tools)
(Default value at 75%)

FAD - 8PWRDRV LED 2 set 4 ways driver

Features setting guide

Hard wiring on output ports



Power consumption

Colordeve FAD-8PWRDRV can output either 12VDC or 24VDC to drive your LED devices

24VDC operation
10Amp max. on each port, total consumptional wattage 240W

12VDC operation
10Amp max. on each port, total consumptional wattage 240W

Indications

Port A & B indicator
Green - Normal
Red in blink - Overload protection

Status indicator
Green - Normal
Red in blink - Over temperature, please load less output power

Colordeve Asia Limited
URL: www.colordeve.com
Email : driver@colordeve.com

CENTRALISE • OPTIMISE • ECONOMISE

White Knight 36 - 1600W

- **Integrated lighting control system**
- **Up to 1600W across 36 fixture outputs**
- **100-1600mA programmable constant current output**
- **Over 6 control protocols implemented**
- **DALI, DMX, RDM, Art-Net, sACN, Art-Osc**

Product Overview

The market leading iDrive® LED driver range now includes the 1600W iDrive® White Knight 36. The White Knight 36 is the worlds first LED driver to integrate an advanced control system alongside a powerful 1600W driver stage that can control up to 36 independent output channels with the widest ever range of dimming control protocols.

The White Knight 36 can be dynamically configured to use DALI, DMX, RDM, Art-Net 3, Art-Osc & sACN dimming protocols enabling users to dim the constant current fixtures in 8-bit or 16-bit mode giving unprecedented accuracy for dimming and colour control. LED outputs can easily be channel bonded to increase current or to operate in common anode mode.

The White Knight 36 utilises the patented Hybrid+™ driver technology which has been designed specifically to deliver medically effective lighting for both humans and animals alike. The Hybrid+™ Dimming system is flicker-free so mitigates the risks of headaches or migraines after long exposures usually associated with other common PWM based systems.

Main Features

- High power density 1600W constant current output power
- 1U rack mounted driver system
- DMX, RDM, Art-Net 3, DALI, TCP/IP, sACN & Art-Osc
- White Knight 36 drives up to 36 independant channels
- Universal mains input, 100V AC - 240V AC
- Backlit 16x2 LCD display menu system or PC system
- 8-bit to 16-bit resolution with Hybrid+™ option
- Multiple channel bonding to create high current outputs
- Short & open circuit protection
- Real time LED current & voltage monitoring
- HTP / LTP merging of 2 DMX controllers
- Linear and curve output options on each channel
- Compatible with iMune® building control system

Input

Input voltage range: 100 - 240V AC, 127 - 370V DC
Input frequency: 45 - 65 Hz

Electrical Specifications

Consumption: 1 - 1600W
PFC @ MAX input power: upto 0.98
Efficiency: >90% at full load
Connection: Standard IEC mains filter
No load Power (total) = 40W or 1.1W per output
No load PFC = 0.47
Insulation class: 1
Maximum peak inrush current: 35A @ 230VAC
Start up time: 8 seconds

Output

Output power: 0 - 76 Watts per channel (standard)
Output current: 0 - 1.6A per channel MAX
Voltage range: 1 - 48V DC
LED connection: 3 x 24 Pin, 3.81mm pitch terminal connectors

Control Input

Dimming control: DMX-512A, RDM, DALI+, Art-Net3, Art-Osc, sACN & TCP/IP.
Connection: 5-pin XLR-DMX, 2xRJ-45 DMX, 2-pin DALI, 10/100 Mbps RJ45 ethernet & RJ11 S-Port sensors
Dimming range: 0 - 100%
DMX address range: 001 - 510 via menu, RDM, TCP/IP system to 65,535
Programs: See user manual for all pre-sets
Master / slave arrangement: See user manual
Dimming resolution: 8-bit, 16-bit & optional 32-bit Hybrid+™

Mechanical

Mounting: 19" Rack mounting
Construction: Steel case to IP20
Weight 7.5Kg

Environmental

Operating ambient temperature: -10°C to +40°C
Storage ambient temperature: -20°C to +50°C
Case temperature: +75°C
Relative humidity: 80% non condensing

Protection

Over voltage, over temperature, overload, short circuit, over power, withstand 300V AC surge input for 5 seconds

RACK MOUNTED 1600W, 36 OUTPUT LED DRIVER
DMX, RDM, Art-Net3, sACN, DALI & Art-Osc compatible

Version V1.4

iDRIVE®

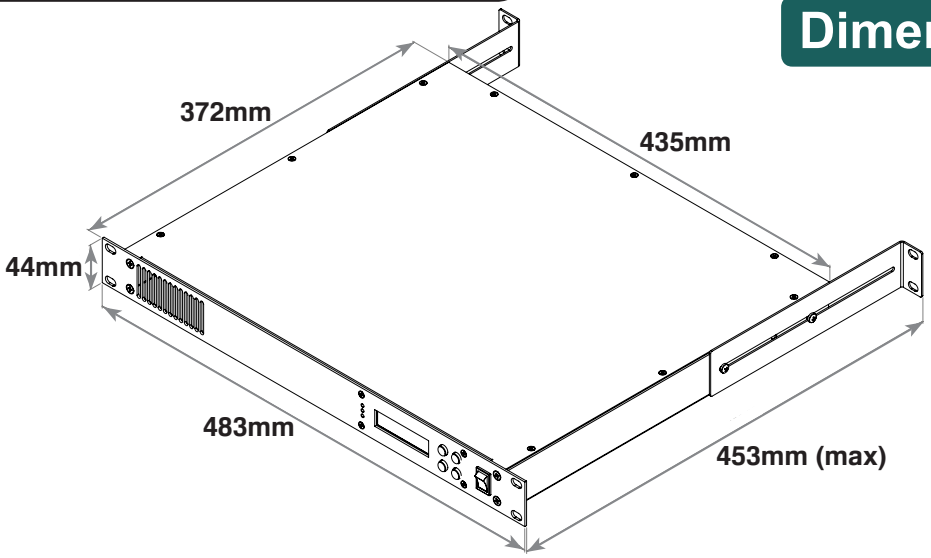
CENTRALISE • OPTIMISE • ECONOMISE

White Knight 36 - 1600W

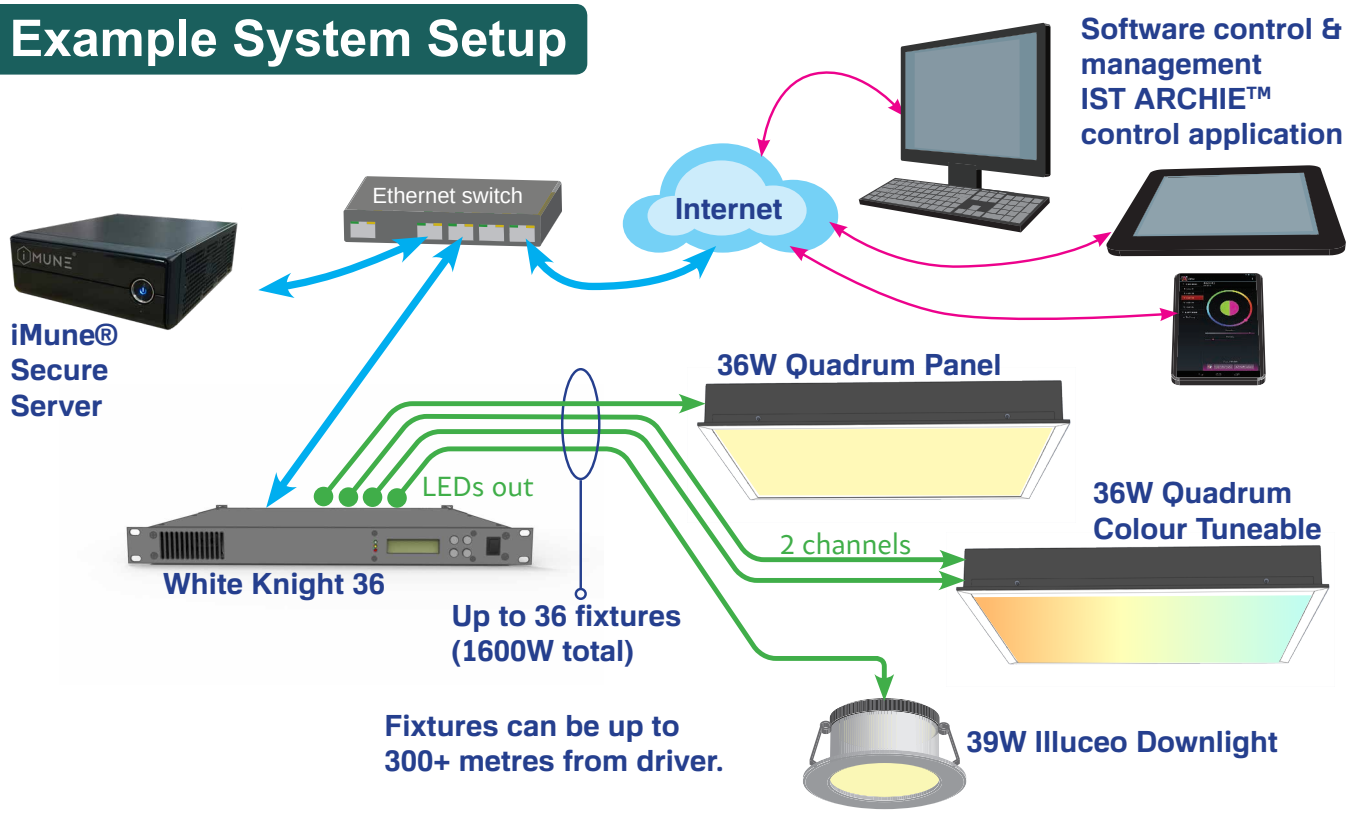
RACK MOUNTED 1600W, 36 OUTPUT LED DRIVER

DMX, RDM, Art-Net3, sACN, DALI & Art-Osc compatible

Dimensions



Example System Setup



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Integrated System Technologies Ltd., Serenity House, 31 Gate Lane, Sutton Coldfield B73 5TR

Version V1.4

CENTRALISE • OPTIMISE • ECONOMISE

iDrive® Kratos

- **Convection cooled for silent operation**
- **Up to 450W across 12 fixture outputs**
- **Ethernet & WiFi connectivity**
- **Optional wall switch & occupancy sensors**

PaE Power and Ethernet

Product Overview

The market leading iDrive® LED driver range now includes the 450W iDrive® Kratos designed for situations where fan noise is undesirable. It is the first LED driver to integrate an advanced control system alongside a powerful 450W driver stage, which can control up to 12 independent constant current and constant voltage outputs with the widest ever range of dimming control protocols.

The iDrive® Kratos can be dynamically configured to use DALI, DMX, RDM, Art-Net 4, HTTP & sACN dimming protocols, whilst being able to monitor external occupancy and ambient light sensors, without the need for expensive external control systems.

Advanced control technology, enables users to dim the constant current or voltage fixtures in 8-bit or 16-bit mode giving unprecedented accuracy for dimming and colour control.

The iDrive® Kratos utilises the patented Hybrid+2™ driver technology which has been designed specifically to deliver healthy, flicker-free lighting for both humans and animals alike. The Hybrid+2™ system mitigates the risks of headaches, eye strain or visual impairment after long exposures, usually associated with PWM based systems.

Main Features

- High power density 450W constant current or voltage (12V, 24V, 36V, 48V) output power
- Completely silent operation
- DMX, RDM, Art-Net 3, DALI, Art-Osc, HTTP, sACN protocol support.
- Drives up to 12 independent channels
- Universal mains input, 100V AC - 240V AC
- 8-bit to 16-bit resolution
- Short circuit protection
- Real time LED current & voltage monitoring
- HTP / LTP merging of 2 DMX controllers
- Configure using any mobile device

Electrical Specifications

Input
Input Voltage Range: 100 - 240V AC
Input Frequency: 50 - 60 Hz
Consumption: 1 - 450W
PFC @ MAX Input Power: >0.95 @ 230Vac
Efficiency: MAX 93% at full load
Connection: Standard IEC mains filter
Standby Power: 0.54W (per channel)
Insulation Class: 1
Maximum Peak Inrush Current: 60A @ 230VAC
Start up time: 5 seconds

Output
Output Power: 0 - 200W per channel
Total Output Power: 0 - 450W across all channels
Output Current: 100 - 4000mA per channel MAX (10mA Steps)
Voltage Range: 1 - 52V DC
LED Connection: 4 x 8 Pin, 3.81mm pitch terminal connectors

Control Input
Dimming Control: DMX-512A, RDM, DALI, Art-Net 4, sACN & HTTP.
Connection: 5-pin XLR-DMX, 2xRJ-45 DMX, 2-pin DALI, 10/100 Mbps RJ45 ethernet & RJ45 S-Port sensors
Dimming Range: 0 - 100%
DMX address range: 001 - 512 via menu, RDM, TCP/IP system to 65,535
Dimming Resolution: 8-bit & 16-bit.

Mechanical
Mounting: Wall & ceiling mounted
Construction: Steel case to IP20
Weight 1.4Kg

Environmental
Operating Ambient Temperature: -10°C to +45°C
Storage Ambient Temperature: -20°C to +50°C
Case Temperature: +75°C
Relative Humidity: 80% non condensing

Protection
Over voltage, over temperature, overload, short circuit, over power, withstand 300V AC surge input for 5 seconds

WALL MOUNTED 450W , 12 OUTPUT LED DRIVER
DMX, RDM, Art-Net 4, sACN, DALI, HTTP compatible

Version 1

CENTRALISE • OPTIMISE • ECONOMISE

iDrive® Kratos

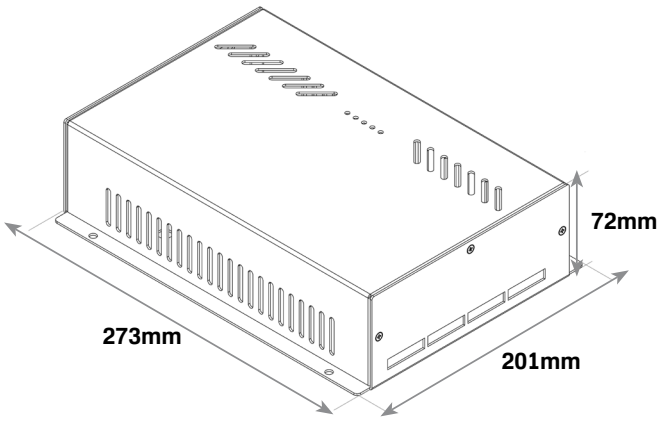
WALL MOUNTED 300W , 12 OUTPUT LED DRIVER

DMX, RDM, Art-Net 4, sACN, DALI, HTTP compatible

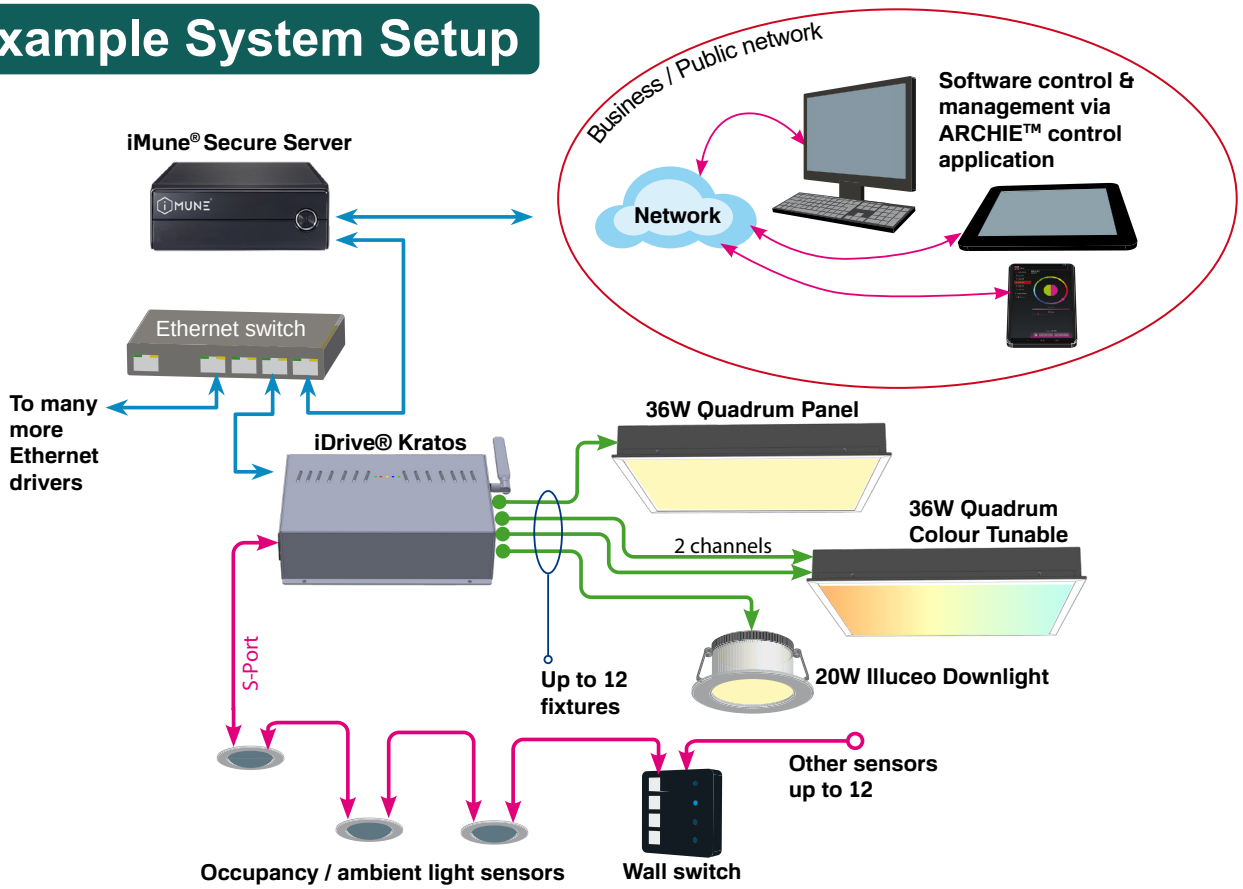
Part Numbers

IST Part No.	Notes
IDKR-450-12-T-S	No mains lead
IDKR-450-12-T-S-IEC	UK mains lead

Dimensions



Example System Setup



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Serenity House
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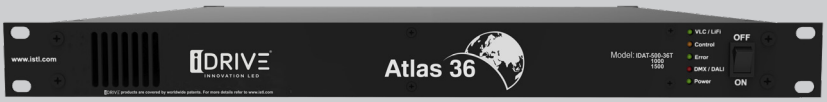
Fradley Park
Lichfield
WS13 8RZ

Version 1

CENTRALISE • OPTIMISE • ECONOMISE

iDrive® Atlas 36



- **Integrated lighting control system**
- **Up to 1500W across 36 fixture outputs**
- **100-4000mA programmable constant current or voltage outputs**
- **Over 6 control protocols implemented DALI, DMX, RDM, Art-Net 4, sACN, Art-Osc**
- **Film quality flicker-free dimming**

RACK MOUNTED 1500W, 36 OUTPUT LED DRIVER

DMX, RDM, Art-Net 4, sACN, DALI & Art-Osc compatible

Product Overview

The market leading iDrive® LED driver range now includes the 1500W iDrive® Atlas 36. The Atlas 36 is an LED driver that integrates an advanced control system alongside a powerful 1500W driver stage that can control up to 36 independent constant voltage and current output channels with the widest ever range of dimming control protocols.

The Atlas 36 can be dynamically configured to use DALI, DMX, RDM, Art-Net 3, Art-Osc & sACN dimming protocols enabling users to dim the constant current or voltage fixtures in 8-bit or 16-bit mode giving unprecedented accuracy for dimming and colour control.

The Atlas 36 utilises the patented Hybrid+2™ driver technology which has been designed specifically to deliver medically effective lighting for both humans and animals alike. The Hybrid+2™ Dimming system is flicker-free so mitigates the risks of headaches or migraines usually associated with PWM based systems.

Main Features

- High power density 1500W constant current or voltage output
- 1U rack mounted driver system
- DMX, RDM, Art-Net 3, DALI, TCP/IP, sACN & Art-Osc
- Atlas 36 drives up to 36 independant channels
- Universal mains input, 100V AC - 240V AC
- HTML via WiFi or PC commissioning
- 8-bit to 16-bit resolution with Hybrid+2™ option
- Multiple channel bonding to create high current outputs
- Short & open circuit protection and monitoring
- Real time LED current & voltage monitoring
- HTP / LTP merging of 2 DMX controllers
- Linear and curve output options on each channel
- Compatible with iMune® building control system
- Each output can be programmed to constant voltage (12V, 24V, 36V or 48V) or constant current (100-4000mA)

Electrical Specifications

Input
Input voltage range: 100 - 240V AC, 250 - 370V DC
Input frequency: 47 - 63 Hz
Consumption: 1 - 1512W (1500W output)
PFC @ Max input power: 0.95 (230VAC) to 0.99 (115VAC)
Efficiency: MAX 94% at full load
Connection: Power-con type connector
Leakage current <1mA
No load Power (total) < 36W or 1W per output
No load PFC = 0.47
Insulation class: 1
Maximum peak inrush current: 40A @ 230VAC, 20A @ 115VAC
Start up time: <5 seconds

Output
Output power: 0 - 200 Watts per channel (standard)
Output current: 0 - 4A per channel MAX
Voltage range: 1 - 52V DC
LED connection: 6 X 12 Pin, 3.81mm pitch terminal connectors

Control Input
Dimming control: DMX-512A, RDM, DALI+, Art-Net 4, Art-Osc, sACN & TCP/IP.
Connection: 5-pin XLR-DMX, 2xRJ-45 DMX, 2-pin DALI, 10/100 Mbps RJ45 ethernet & RJ45 S-Port sensors
Dimming range: 0 - 100%
DMX address range: 001 - 510 via HTML, RDM, TCP/IP system to 65,535
Programs: See user manual for all pre-sets
Master / slave arrangement: See user manual
Dimming resolution: 8-bit & 16-bit Hybrid+2™

Mechanical
Mounting: 19" Rack mounting
Construction: Steel case to IP20
Weight 7.5Kg

Environmental
Operating ambient temperature: -10°C to +45°C
Storage ambient temperature: -20°C to +50°C
Case temperature: +65°C
Relative humidity: 80% non condensing

Protection
Over voltage, over temperature, overload, short circuit, over power, withstand 300V AC surge input for 5 seconds

Version V1.2

iDRIVE®

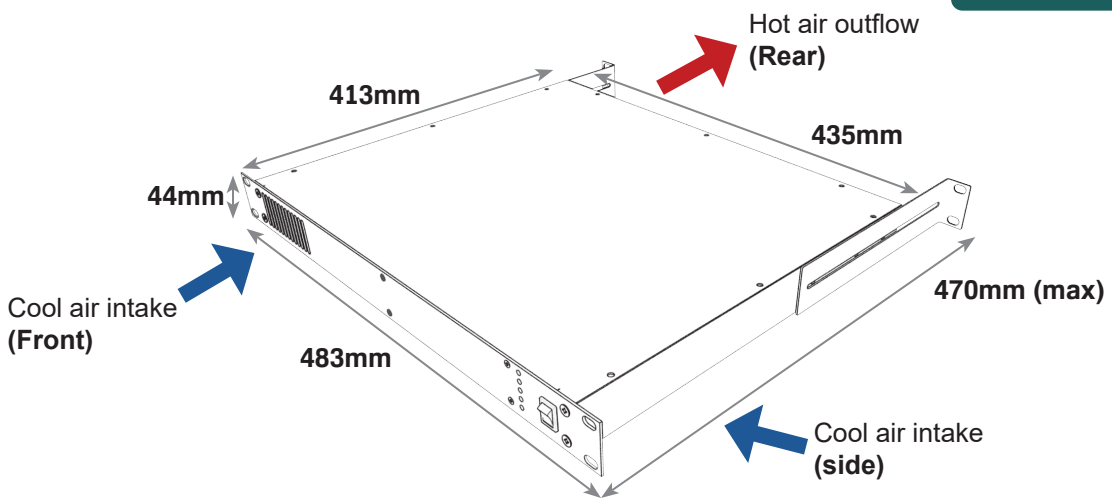
CENTRALISE • OPTIMISE • ECONOMISE

iDrive® Atlas 36

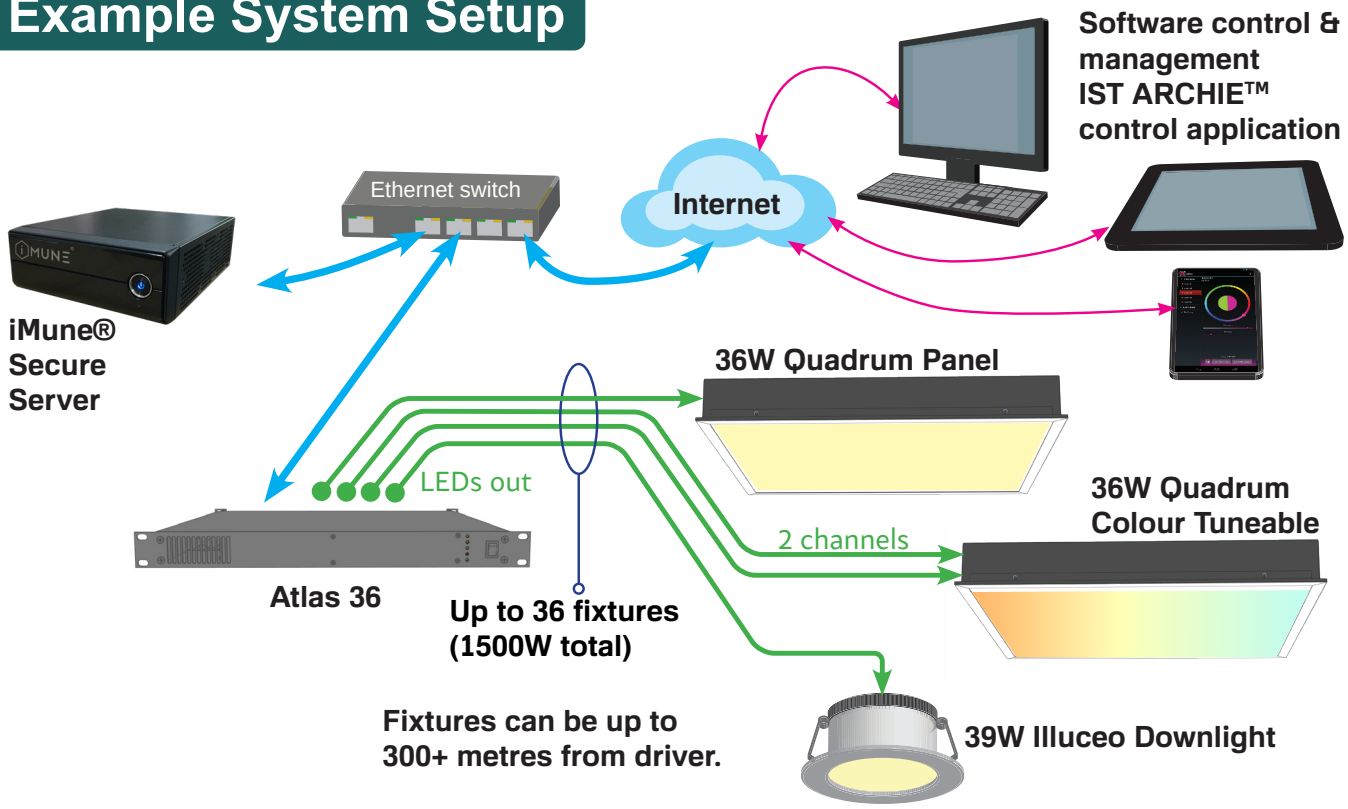
RACK MOUNTED 1500W, 36 OUTPUT LED DRIVER

DMX, RDM, Art-Net 4, sACN, DALI & Art-Osc compatible

Dimensions



Example System Setup



Part Number: IDAT-1500-36T

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Version
V1.2

CENTRALISE • OPTIMISE • ECONOMISE

Force 12 Silent

- **Convection cooled for silent operation**
- **Up to 300W across 12 fixture outputs**
- **Ethernet & WiFi connectivity**
- **WiFi & VLC/LiFi for indoor positioning**
- **Optional wall switch & occupancy sensors**

Product Overview

The market leading iDrive® LED driver range now includes the 300W iDrive® Force 12 Silent designed for situations where fan noise is undesirable. It is the first LED driver to integrate an advanced control system alongside a powerful 300W driver stage, which can control up to 12 independent output channels with the widest ever range of dimming control protocols.

The Force 12 silent can be dynamically configured to use DALI, DMX, RDM, Art-Net 3, HTTP & sACN dimming protocols, whilst being able to monitor external occupancy and ambient light sensors, without the need for expensive external control systems.

Advanced control technology, enables users to dim the constant current fixtures in 8-bit or 16-bit mode giving unprecedented accuracy for dimming and colour control.

The Force 12 silent utilises the patented Hybrid+™ driver technology which has been designed specifically to deliver healthy lighting for both humans and animals alike. The Hybrid+™ system does not use current pulses to dim the outputs and so mitigates the risks of headaches, eye strain or visual impairment after long exposures, usually associated with other common PWM based systems.

Main Features

- High power density 300W constant current output power
- Completely silent operation
- DMX, RDM, Art-Net 3, DALI, Art-Osc, HTTP, sACN protocol support.
- Force 12 silent drives up to 12 independent channels
- Universal mains input, 100V AC - 240V AC
- 8-bit to 16-bit resolution
- Short circuit protection
- Real time LED current & voltage monitoring
- HTP / LTP merging of 2 DMX controllers
- Configure using any mobile device

Electrical Specifications

Input
Input Voltage Range: 100 - 240V AC
Input Frequency: 50 - 60 Hz
Consumption: 1 - 354W
PFC @ MAX Input Power: >0.94 @ 230Vac
Efficiency: >90% at full load
Connection: Standard IEC mains filter
Standby Power: 0.54W (per channel)
Insulation Class: 1
Maximum Peak Inrush Current: 60A @ 230VAC
Start up time: 6 seconds

Output
Output Power: 0 - 75 Watts per channel
Total Output Power: 0 - 300W
Output Current: 100 - 1600mA per channel MAX (10mA Steps)
Voltage Range: 1 - 48V DC
LED Connection: 4 x 8 Pin, 3.81mm pitch terminal connectors

Control Input
Dimming Control: DMX-512A, RDM, DALI, Art-Net3, sACN & HTTP.
Connection: 5-pin XLR-DMX, 2xRJ-45 DMX, 2-pin DALI, 10/100 Mbps RJ45 ethernet & RJ45 S-Port sensors
Dimming Range: 0 - 100%
DMX address range: 001 - 512 via menu, RDM, TCP/IP system to 65,535
Dimming Resolution: 8-bit & 16-bit.

Mechanical
Mounting: Wall & ceiling mounted
Construction: Steel case to IP20
Weight 4Kg

Environmental
Operating Ambient Temperature: -10°C to +40°C
Storage Ambient Temperature: -20°C to +50°C
Case Temperature: +75°C
Relative Humidity: 80% non condensing

Protection
Over voltage, over temperature, overload, short circuit, over power, withstand 300V AC surge input for 5 seconds

WALL MOUNTED 300W , 12 OUTPUT LED DRIVER
DMX, RDM, Art-Net3, sACN, DALI, HTTP compatible

Version 1.4

iDRIVE®

CENTRALISE • OPTIMISE • ECONOMISE

Force 12 Silent

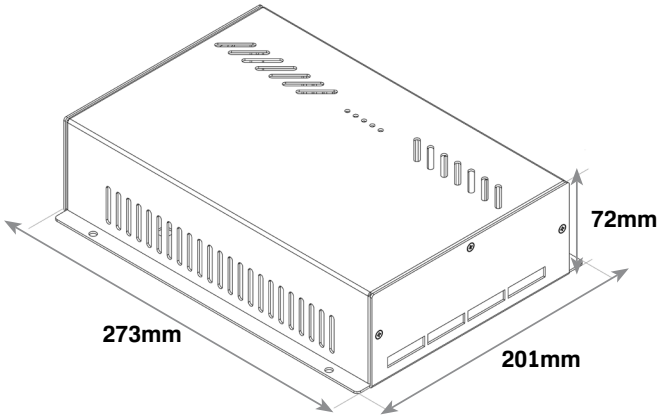
WALL MOUNTED 300W , 12 OUTPUT LED DRIVER

DMX, RDM, Art-Net3, sACN, DALI, HTTP compatible

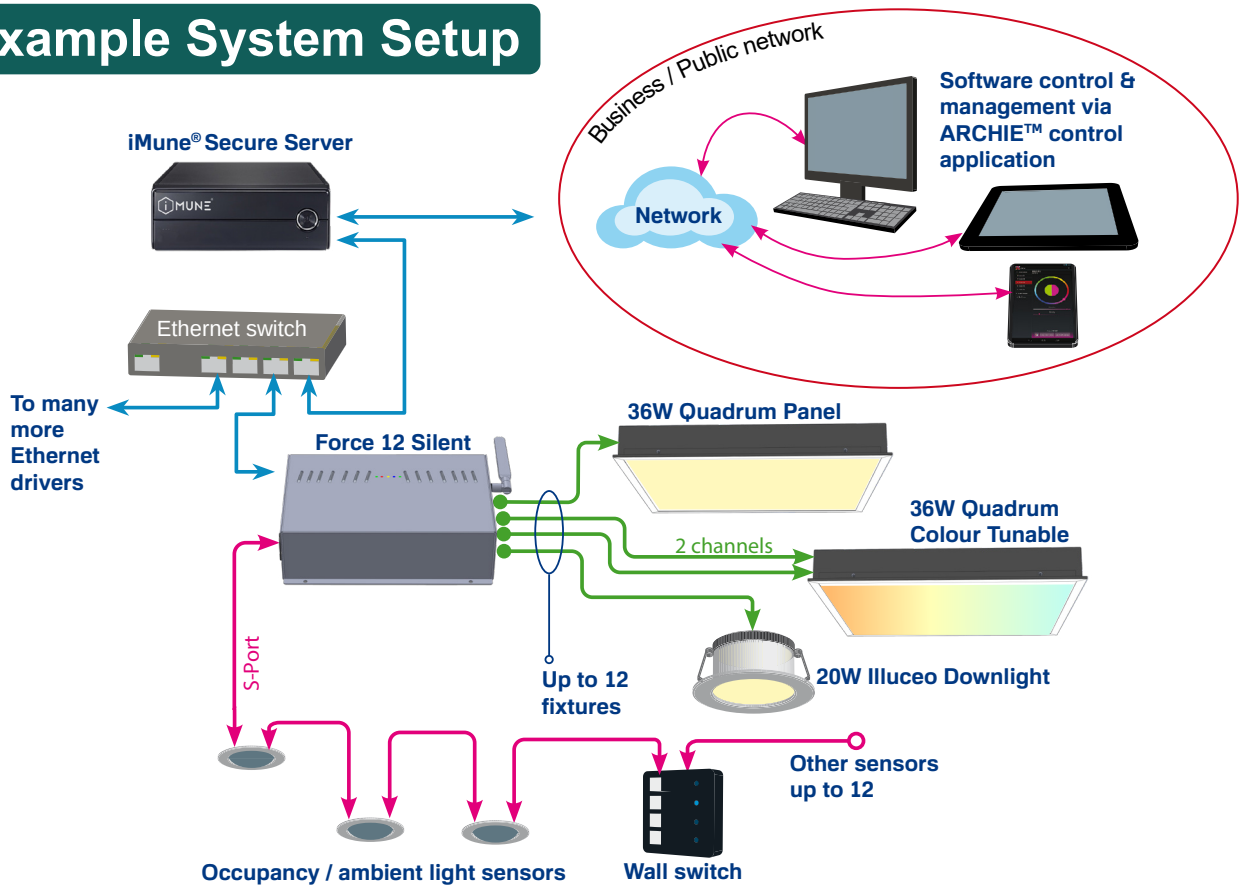
Part Numbers

IST Part No.	Notes
IDF-300-12T-S	No mains lead
IDF-300-12T-S-IEC	UK mains lead

Dimensions



Example System Setup



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Version 1.4

CENTRALISE • OPTIMISE • ECONOMISE

White Knight 12 RJ45

- **12 x RJ45 power outlets for Cat6 / Cat6A**
- **Up to 65% less cost than a PoE system**
- **100-1600mA programmable constant current output**
- **Over 6 control protocols implemented DALI, DMX, RDM, Art-Net, sACN, Art-Osc, HTTP**
- **Internal control system saves on project costs**

Product Overview

The market leading 300W iDrive® White Knight 12 has been designed to deliver projects using category 6/6A structured cabling to guarantee future proofing of intelligent buildings.

In order to enable contractors and installers to deliver cost effective lighting solutions over PoE compliant networks the White Knight 12 offers 12 individually controllable RJ45 output connectors to allow easy patching and quick diagnostics through individual port monitoring technology.

Designed to operate with all major control protocols. Advanced features include built-in Wi-Fi for easy mobile device configuration and a real time clock (RTC) to allow up to 4 groups of luminaires to be controlled using daylight, occupancy or wall switch inputs.

The WK12 allows static or dynamic circadian lighting, RGB, RGBx or single channel luminaires to be controlled internally by the driver saving external control system costs.

The White Knight 12 utilises the tried and tested Hybrid+™ driver technology offering patent protected flicker-free lighting to mitigate the risks of headaches or migraines after long exposures associated with PWM based LED drivers.

The White Knight 12 system incorporates an optional sensor input port to allow multiple analogue, digital and occupancy/ambient light sensors.

The White Knight 12 saves over 65% of the average PoE system capital cost using the same cabling and improves reliability by removing electronics near the luminaires.

Main Features

- High power density 300W constant current output power
- Wall mounted 12 port RJ45 driver solution
- DMX, RDM, Art-Net 4, DALI, Wi-Fi sACN & Art-Osc
- Universal mains input, 90V AC - 264V AC
- Short, Open and Over Voltage output protection
- Real time LED current & voltage monitoring
- HTP / LTP merging of 2 DMX controllers
- Linear and curve output options on each channel
- Save control costs using the iDrive® Smart built-in control system.

Electrical Specifications

Input

Input voltage range: 90 - 264V AC, 127 - 370V DC
Input frequency: 47 - 63 Hz
Consumption: 1 - 338W (300W output)
PFC @ MAX input power: 0.94 (230VAC) to 0.98 (115VAC)
Efficiency: >87% at full load
Connection: Standard IEC mains
Leakage current <3mA
No load Power (total) < 6W or 0.5W per output (Max)
Insulation class: 1
Maximum peak inrush current: 60A @ 230VAC, 30A @ 115VAC

Output

Output power: 0 - 76 Watts per channel (standard)
Output current: 0 - 1.6A per channel (Max)
Voltage range: 1 - 48V DC
LED connection: 12 x RJ45 ethernet connectors

Control Input

Dimming control: DMX-512A, RDM, DALI+, Art-Net4, Art-Osc, sACN Ethernet & Wi-Fi.
Connection: 5-pin XLR-DMX, 2xRJ-45 DMX, 2-pin DALI, 10/100 Mbps RJ45 ethernet & RJ45 S-Ports sensors
Dimming range: 0 - 100%
DMX address range: 001 - 510 via menu, RDM, Wi-Fi
Programs: iDrive® Smart control for 4 groups including circadian lighting and multiple policies.
Master / slave arrangement: See user manual
Dimming resolution: 8-bit & 16-bit Hybrid+™

Mechanical

Mounting: Wall mount
Construction: Steel case to IP20
Weight 4Kg

Environmental

Operating ambient temperature: -10°C to +40°C
Storage ambient temperature: -20°C to +50°C
Case temperature: +65°C
Relative humidity: 80% non condensing

Protection

Over voltage, over temperature, overload, short circuit, over power, withstand 300V AC surge input for 5 seconds.

300W, 12 RJ45 OUTPUT LED DRIVER
DMX, RDM, Art-Net4, sACN, DALI & Art-Osc, Wi-Fi compatible

Version V1.1

iDRIVE®

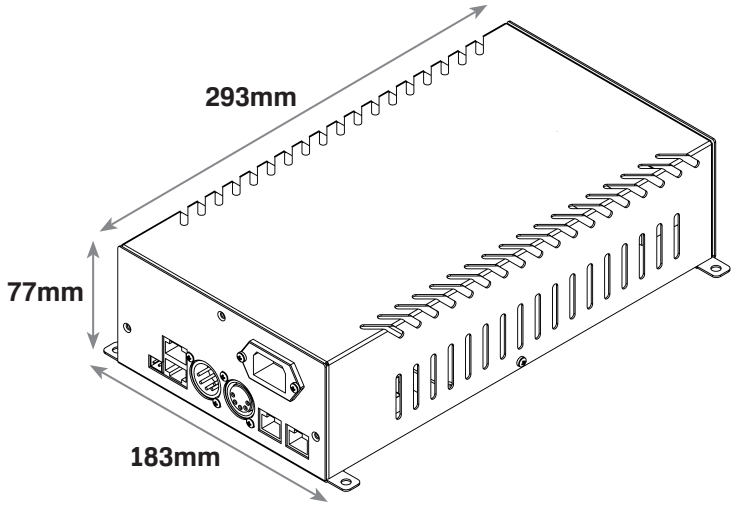
CENTRALISE • OPTIMISE • ECONOMISE

White Knight 12 RJ45

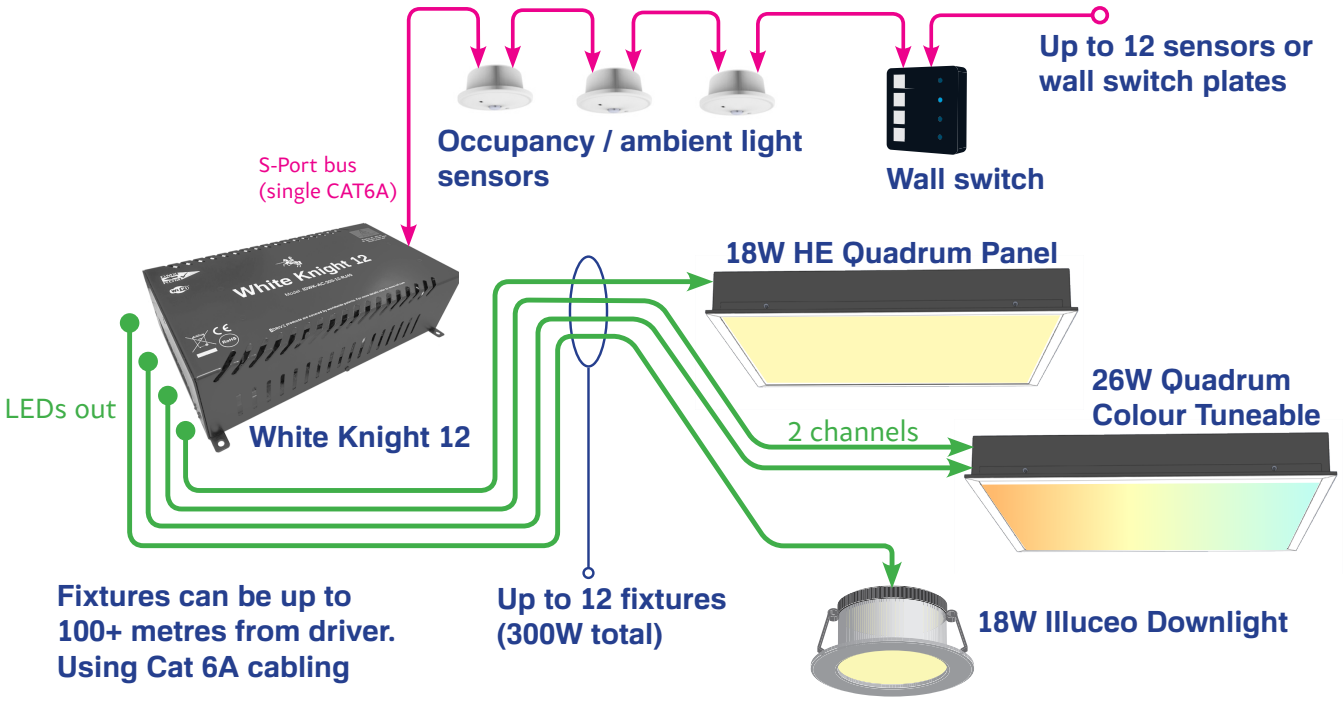
300W, 12 RJ45 OUTPUT LED DRIVER

DMX, RDM, Art-Net4, sACN, DALI & Art-Osc, Wi-Fi compatible

Dimensions



Example System Setup



Part Number: IDWK-AC-300-12-RJ45

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Version V1.1