iDRIVE®

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
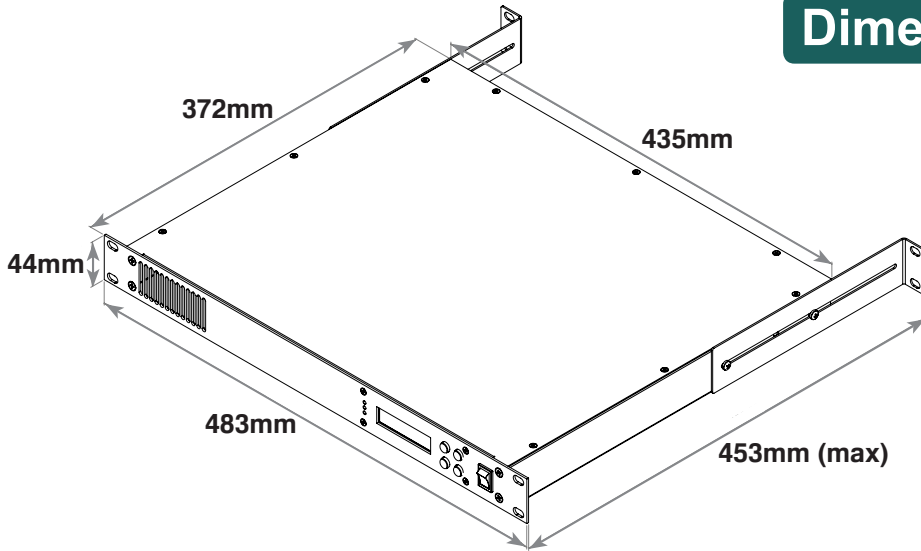
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Dimensions
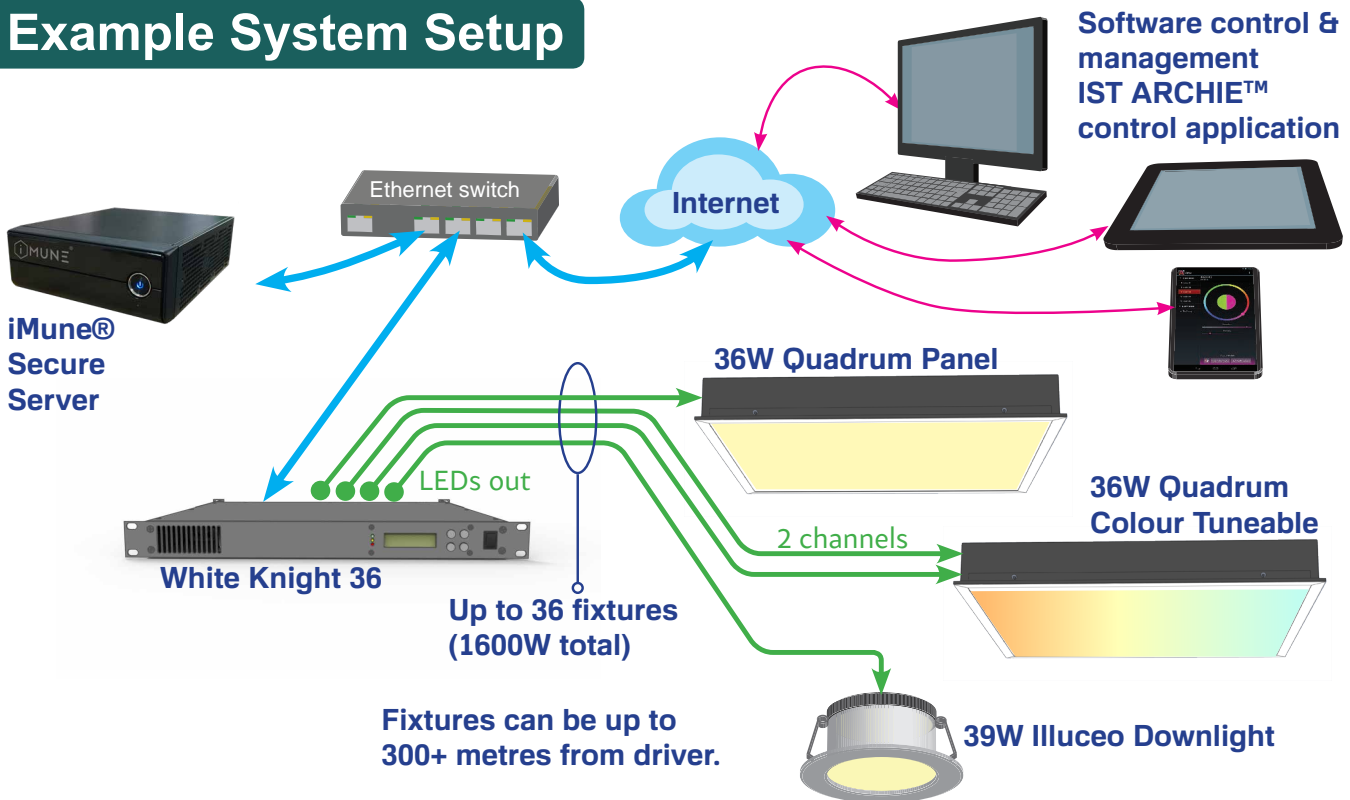
372mm
435mm
44mm
483mm
453mm (max)

Example System Setup

iMune® Secure Server

Ethernet switch

Internet

Software control & management IST ARCHIE™ control application

36W Quadrum Panel

LEDs out

White Knight 36

36W Quadrum Colour Tuneable

2 channels

Up to 36 fixtures (1600W total)

Fixtures can be up to 300+ metres from driver.

39W Illuceo Downlight

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www.istl.com

t: +44 (0)121 362 1810 e: sales@istl.com

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