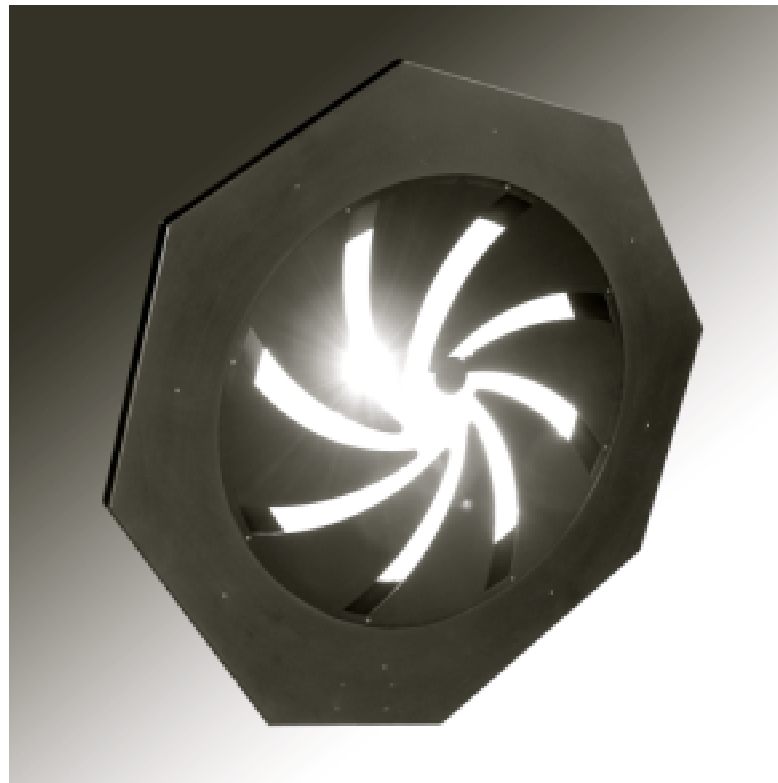# Eclipse IT Iris
User Manual

WYBRON

AdvancingTheArtOfLighting

infotrace IT
control & management system

87250   – 1K (7.5-inch) Eclipse IT Iris
810060 – 10-inch Eclipse IT Iris
812020 – 2K (12-inch) Eclipse IT Iris
823020 – 24-inch Eclipse IT Iris

Manual issue date: Feb. 26, 2009

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DECLARATION OF CONFORMITY

Manufacturers Information: Wybron, Inc.
4830 List Drive, Colorado Springs, Colorado 80919 USA
Phone: 1 (719) 548-9774 Fax: 1 (719) 548-0432
Website: www.wybron.com Email: info@wybron.com

Equipment Name: Eclipse Shutter IT
Equipment Model Number: 89020, 811020, 817010

This product is in conformity with the following standards:

Referenced Safety Standard(s)   **Referenced EMC Standard(s)**

EN60335-1   EN55022

following the provisions of the EU LV Directive 2006/95/EC and the EU EMC Directive
2004/108/EC.

I declare that the equipment specified above conforms to the above Directive(s) and
Standard(s).

Signature: *Lee Schlais*

Printed Name: Lee Schlais

Title: Vice President of Engineering

Date: February 11, 2009

Safety Notice

SAVE THESE INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

⚠ CAUTION: The Eclipse IT Iris mechanical dimmer/dowser has been designed to withstand the rigors of entertainment lighting. However, the teflon coating on the Iris blades can only withstand temperatures up to 600°F. When used with some excessively hot fixtures, degradation and possibly flaking of this coating may occur.

USE WITH EXCESSIVELY HOT FIXTURES – OVER 700°F AT THE IRIS BLADES – THAT RESULTS IN DEGRADATION OF THE HIGH TEMP POWDER COATING IS EXCLUDED FROM THE PRODUCT WARRANTY.

This manual gives step-by-step instructions for preparation, setup, and operation of the Eclipse IT Iris dowser.

There is a potential risk of fire, electric shock, or injury to persons if the product is not used as instructed.

The Eclipse IT Iris dowser is to be used in an indoor environment only and is not intended for residential use.

Introduction

Wybron's Coloram IT system includes mechanical dowsers (Eclipse IT Iris and Eclipse IT Shutter) and PS Power Supplies, all utilizing the Remote Device Management (RDM) industry-standard feedback protocol. Offering a wide range of models with easy setup and use, the Coloram IT system is part of Wybron's Infotrace Control and Management System – a new way to manage an entire lighting installation with RDM feedback

The lightweight Eclipse IT Iris dowser slides easily into the gel frame holder of its light fixture. The compact PS Power Supply attaches easily to the truss of the lighting rig or mount into a 19-inch rack.

The DMX512 control signal from the lighting console is connected to the PS Power Supply and can continue on to additional PS power supplies or other DMX-controlled devices. The power supply sends power, DMX control signal, and RDM information on a single cable, eliminating the need for a separate power cable for the dowser.

Eclipse IT Iris dowsers are 100% compatible with all products of the Coloram IT family, including Coloram IT and CXI IT color changers, PS Power Supplies, and Eclipse IT Shutter dowsers. Eclipse IT Iris dowsers may be daisy-chained with other Coloram IT devices.

This manual gives step-by-step instructions for preparation, setup, and operation of the Eclipse IT Iris.

⚠️
Caution:
The Coloram IT System, including Eclipse IT Iris, is not compatible with Coloram II (RAM) or Forerunner systems.

Do not connect Eclipse IT Iris dowsers to Coloram II (RAM) power supplies or Forerunner power supplies.

Do not connect Coloram II (RAM) units to PS power supplies.

Damage from such action will not be covered by the product warranties.

Quick Start

1. Connect the Equipment

    A.   Attach the Eclipse IT Iris dimmer/dowser to a powered light fixture.

    B.   Connect the Eclipse to the PS Power Supply using the 4-pin Wybron power/data cable.

    C.   Connect the PS Power Supply to non-dimmed 100-240 VAC, 50/60Hz power and a DMX source.

Optional

    D.   Connect dimmers that have Infochip installed to the Infogate hardware and software. Refer to the Infogate and Infochip manuals for details.

    E.   Using Infogate:

        i.   Initiate "Perform Discovery"

        ii.   In the DMX Map, drag and drop the DMX address for the Eclipse to DMX address 1.

    F.   Refer to the Infogate user manual for further details.

2. Send DMX Levels

A.   On the lighting console, vary the level of the Eclipse DMX channel to open and close the dowser fins.
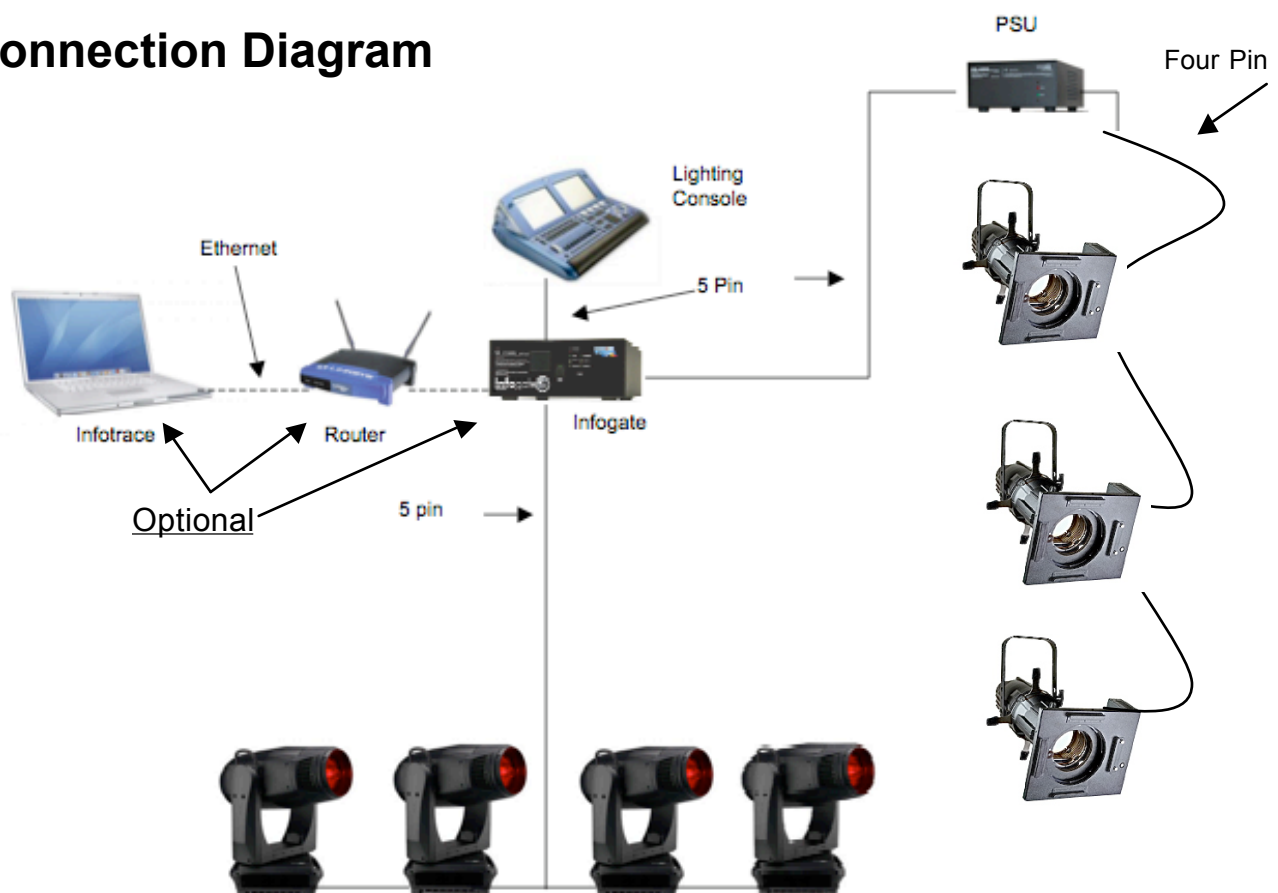
Connection Diagram

Figure 1

Using the Eclipse IT Iris Dowser

Operating Modes

The Eclipse has several modes of operation. In all cases, the PS Power Supply is needed for control and power. Please refer to the Menu Details below for information on how to select DMX, Local, Snap, Fast, or Smooth mode.

DMX512 Control
The level (0-100%) of the DMX channel to which the dowser is addressed determines the fin position. The fins are closed at 0% and open at 100%.

Local Wired Pendant Control
A handheld pendant can be attached via a 3-pin XLR cable to manually open and close the fins. Movement from fully open to fully closed or vice-versa takes two seconds – this allows for precise fin positioning. Press the " + " button to open the fins and the " - " button to close them. The wired pendant cable can be up to 1,000 feet long.

Self Test/Demo Mode

The dowser unit can be controlled by the menu buttons on the dowser unit. Please refer to the Menu Details below, under Self Test (Demo) for details.

Signal and Power

The Eclipse uses a PS Power Supply with Coloram IT cables for DMX signal, RDM communication and 24VDC power. The dowser can be daisy-chained with Coloram IT and CXI IT color changers and Eclipse IT Shutter dowsers. Fin position is determined by the DMX level (0-100%) of the control channel to which the dowser is addressed. The dowser uses one DMX channel.

Fan Speed Control

The small fan in the Eclipse cools the electronics enclosure, therefore it always runs at full speed and CANNOT be slowed or stopped.

Installing the Eclipse IT Iris

1.   Attach the Eclipse to the fixture

Slide the dowser's mounting bracket into the gel frame holder of your fixture and lock the gel frame retention clip (if available). The unit operates most effectively with the electronics module oriented to the side or bottom.

2.   Attach the safety cable

A safety cable is attached to the dowser. Run this cable around the pipe or truss from which you hang the light fixture and clip it to itself.

3.   Mount the power supply

The PS Power Supply is designed to be free-standing, truss-mounted, or rack-mounted. You decide which mounting method best suits your application.

The power supply comes with a mounting bracket which hooks over the pipe or truss of your lighting rig and is then locked into place with a thumb screw. If you have selected this mounting method, connect the safety cable by running it around the pipe or truss to which the power supply is attached.
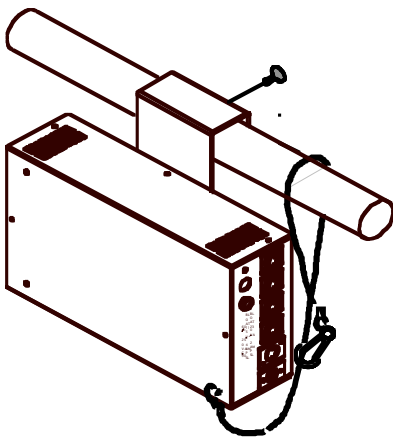
Figure 2
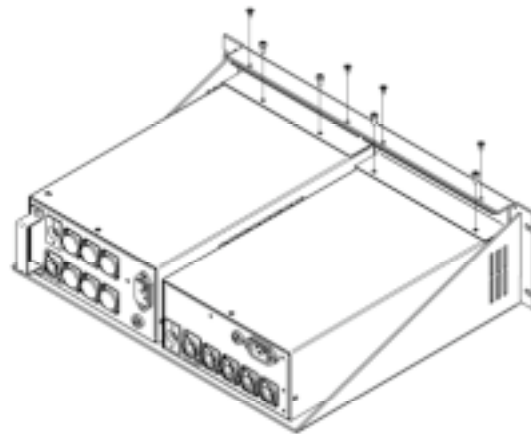
Figure 3

The power supply can also be mounted into a 19-inch rack using the optional PS Power Supply rack mount kit. The rack mount kit will accommodate two PS Power Supplies side by side.

4.   Connect the Eclipse to the power supply

Connect the dowsers to the power supply using 4-pin Coloram IT cable.

Refer to the HEAD-FEET RESTRICTIONS section of this manual for details regarding the length of cable runs.

5.   Connect the power supply to AC power

Plug the AC cord into a non-dimmed power circuit. The power supply automatically accommodates 100 - 240 VAC (50/60 Hz).

Power at the PS Power Supply is indicated by a red LED indicator.

⚠ *Caution: Do not power the PS Power Supply from a dimmer. Severe damage will result and is not covered by product warranty.*

6.   Connect the DMX512 source

Connect the DMX512 signal source to the DMX input connector on the back of the power supply using standard DMX cable. Valid DMX signal will be indicated by a flashing green LED. The dowsers will now open and close their fins according to their respective DMX signal levels.

```
[Alerts Menu]          >
[DMX Status]
DMX Address: 512
Settings               >
Sensor Info            >
History
Local Control          >
Reset Defaults
```

Eclipse Iris IT
Graphical Menu Tree

Main LCD Menu

[Alerts Menu]   >
[DMX Status]
DMX Address: 512
Settings   >
Sensor Info   >
History   >
Reset Defaults
Local Control
Self Test/Demo Mode >

Voltage   >
Fan RPM   >

Pass Thru Current

Now = 00.1A
High = 00.2A
Low = 00.1A
Reset hi & Low? No/Yes

AMBIENT TEMP

Now = 77F(113F max)
High = 86F(113F max)
Low = 77F(32F max)
Reset hi & Low? No/Yes

Voltage

VOLTAGE
Now = 23.8V(15V min)
High = 23.8V(24V max)
Low = 23.7V(15V min)
Reset Hi & Low? No/Yes

AMBIENT TEMP

Now = 27C(47C max)
High = 30C(45C max)
Low = 25C(0C max)
Reset hi & Low? No/Yes

Fan RPM

Fan RPM OK? Yes

Cleaning Info

SINCE   Like
CLEAN   New
RESET:
287 HR
            Needs
Reset >   Cleaning

Light On/ Off

Light is off

Reset

RESET   No/Yes
CLEANING
HOURS
GAUGE?

History

Operating Hours   >
Host Light Lamp   >
Fin Cycles = 2140

Operating Hours

Cleaning Info   >
Maintenance Info   >
Lifetime Hours is 25

Local Control

Fin Position
Move Mode: Snap /Smooth

Host Light Lamp

HOST   New
LAMP
HOURS:
23 HR
            500 hrs
Reset >

Maintenance Info

SINCE   Like
MAINT   New
RESET:
287 HR
            Needs
Reset >   Maint.

Self Test/ Demo Mode

Fade Speed? fast/slow

Reset

RESET   No/Yes
HOST LIGHT
LAMP HOURS
GAUGE?

Reset

RESET   No/Yes
MAINTEANCE
HOURS
GAUGE?

Reset Defaults

RESET
FACTORY   No/yes
DEFAULT
SETTINGS ?

Menu Details

1.   Use the arrow buttons to scroll through selections on the display.
2.   Press **SELECT** to activate that selection or progress to the next level of displays.
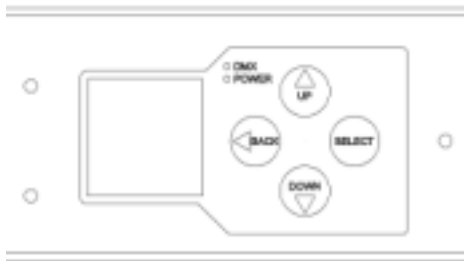

Figure 4

The arrow buttons are also used to navigate to further levels within the display.
For example, to select the dowser's address:

1. Press **SELECT**.
2. Use the arrow buttons to move to the selection box to "DMX Address."
3. Press **SELECT** to select "DMX Address."
4. Use the arrow buttons to move to the correct address.
5. Press **SELECT** to save the address.

Alerts / Error Messages

The following is an explanation of alerts and error messages that are displayed locally on the dowser.

To read alert messages:

1.   When "SENSOR ALERT" is displayed, press **SELECT.**
2.   As an example: "VOLTAGE ALERT" indicates a voltage problem.
3.   Press **SELECT** to access more information on the Voltage Alert.
4.   For example: "WARNING – VOLTAGE
            DROPPED BELOW 15V"

VOLTAGE ALERTS

•   "WARNING – VOLTAGE
      DROPPED BELOW 15V"
            Operating voltage has dropped below the minimum operating requirement of
            15 volts. The cable between the unit and the power supply may be too long.

- "VOLTAGE DROPPED
  BELOW 13V
  UNIT SHUTDOWN"
    Unit has automatically shut down because operating voltage has dropped below 13 volts for more than one second. The Eclipse cannot operate properly below 15VDC. The voltage typically drops this low if the Eclipse IT Iris cable is too long — the head-feet limit has been exceeded. The cable must be shortened to solve this problem.

MOTOR ALERT

1. "MOTOR IS
    OPERATING AT A HI
    CURRENT LEVEL"
      High current level at the fin motors may indicate an ususually high level of friction at the motor. Please check Eclipse motor for possible maintenance or replacement.

FAN ALERT

1. "FAN IS NOT
    OPERATING
    PROPERLY"
      Check Eclipse fan for any maintenance needs.

RESET ALERT
Clears existing alert from display screen when you press **SELECT** (unless problem still currently exists).

MULTIPLE ALERTS
1. Press **SELECT** to read the first alert.
2. Press **SELECT** to read the details of the first alert.
3. Press **BACK** to view the second alert.
4. Press **SELECT** to view details of the second alert.
5. Press **BACK** to check if there any additional alerts, then repeat steps four and five until all alerts have been read.
6. Once all alerts have been read, use the ᴅ key to move the selection box to the "RESET ALL ALERTS" command.
7. Press **SELECT** to clear all alerts, except those that currently exist as problems.

DMX Address

1. Use the arrow buttons to select the desired DMX address.
2. Press **SELECT** to activate the displayed DMX address.

Settings

DMX ADDRESSES

      Dowser Addr (Dowser Address)
      A.   Use arrow buttons to select the desired DMX address.
      B.   Press **SELECT** to activate the desired DMX address.

MODES

      DMX or Local
      A.   Use arrow buttons to select either DMX or Local mode.
      B.   Press **SELECT** to activate the desired setting.

      Snap Mode
      A.   Use the arrow buttons to select either On or Off.
      B.   Press **SELECT** to activate the desired setting.

      Fast or Smooth
      A.   Use the arrow buttons to select either Fast or Smooth mode.
      B.   Press **SELECT** to activate the desired setting.

Sensor Info

VOLTAGE
1.   Displays present voltage and highest and lowest voltages measured, along with normal minimum and maximum acceptable voltages.

      Reset Hi & Low:
      A.   Use the arrow buttons to select Yes.
      B.   Press **SELECT** to activate Reset Hi & Low.

PASS THRU CURRENT
1.   Displays present pass through current and highest and lowest current measured, along with normal minimum and maximum acceptable pass through current.
      A.   Used in automatically sequencing through RDM enabled units on the lighting rig during Infogate setup procedures.

      Reset Hi & Low:
      A.   Use the arrow buttons to select Yes.
      B.   Press **SELECT** to activate Reset Hi & Low.

FAN RPM
1.   Press **SELECT** to display answer to the question "IS FAN RPM OK?" (Yes or No).

Self Test (Demo)

MOVE / STOP
1.   Use the arrow buttons to select "Move" or "Stop" fin commands.
2.   Press **SELECT** to activate selected command.

History

OPERATING HOURS

Cleaning Info
A.   Lifetime operating hours are shown at the bottom of the first display. This is the total number of hours the dowser has been in use over its lifetime. This counter is never reset.

B.   Press **SELECT** to display the gauge that indicates how the Eclipse currently rates between "Like New" and "Needs Cleaning."

Figure 5

Cleaning means cleaning dust out of the vent slots, off the printed circuit board, and off the internal components.

C.   The display also shows the number of hours since the last cleaning of dowser.

        Reset Hours
        i.   Press **SELECT** to select the Reset Hours function
        ii.   Use the arrow buttons to select Yes on the "Reset Cleaning Hours Gauge?"
        iii.   Press **SELECT** to activate Reset Cleaning Hours Gauge.

Maintenance Info
A.   Lifetime operating hours are shown at the bottom of the first display. This is the total number of hours the dowser has been in use over its lifetime. This counter is never reset.

B.   Press **SELECT** to display the gauge that indicates how the dowser rates between "Like New" and "Needs Maintenance."

Figure 6

Maintenance means replacing a failed part on the dowser.

C.   The display also shows the number of hours since the last maintenance on the dowser.

Reset Hours
i.   Press **SELECT** to select the Reset Hours function.
ii.   Use the arrow buttons to select Yes on the "Reset Maintenance Hours Gauge?"
iii.   Press **SELECT** to activate Reset Maintenance Hours Gauge.

Host Light Lamp
A.   Press **SELECT** to display the gauge that indicates the number of hours that the lighting fixture lamp has been on since its lamp was installed.

Figure 7

Reset Hours
i.   Press **SELECT** to select the Reset function.
ii.   Use the arrow buttons to select Yes on the "Reset Host Light Lamp Hours Gauge?"
iii.   Press **SELECT** to activate Reset Host Light Lamp Hours Gauge.

Reset Defaults

1.   Press **SELECT** to select "Reset Defaults."
2.   Use the arrow buttons to select Yes to Reset Defaults.
3.   Press **SELECT** to activate Reset Defaults.
                Dowser address is 1; DMX control

Head-Feet Restrictions

15

The HEAD-FEET parameter is a method of accounting for the voltage drop in the power/signal cable caused by the current drawn by each dowser.

To help understand this issue, think of it as water pressure (voltage) in a hose (cable) feeding multiple water sprinkler heads (dowsers). If the hose (cable) is too long, or too many sprinkler heads (dowsers) draw from the hose, the water pressure (voltage) will be too low.

HEAD-FEET is defined as "the sum of cable lengths from each dowser to a single power supply output."

Head-Feet Example

Consider this example: Three Eclipse IT Iris units are connected to a power supply. The 4-pin power/data cable between the power supply and the first Eclipse Iris IT is 100 feet long. The cable between the first and the second Eclipse is 20 feet long, and the cable between the second and third Eclipse is also 20 feet long.

The amount of cable from the power supply to:

1st Eclipse IT Iris	100 ft
2nd Eclipse IT Iris	120 ft
3rd Eclipse IT Iris	140 ft
Total:	360 "head-feet"

Head-Feet Limits

- 1K (7.5") Eclipse IT Iris (Model 87250): 1,500 head-feet
- 10" Eclipse IT Iris (Model 810060): 1,500 head-feet
- 2K (12") Eclipse IT Iris (Model 812020): 1,500 head-feet
- 24" Eclipse IT Iris (Model 823020): 750 head-feet

If a daisy chain includes different models, use the model with the smallest amount of "head-feet" for the calculation.

Equipment Compatibility/Power Supply Capacity

This chart shows the capacity and compatibility for the various models of PS Power Supply units and their companion devices.

Power Supply			PS-150	PS-300	PS-600	PS-450i (wall mount)
Model Number			820150	820300	820600	20250
Output Power			150 watts	300 watts	600 watts	300 watts

Quantity Per Power Supply:

Description	Model	Max. Head-Feet				
Coloram IT 4" & 7.5"	84520 87110	1500	6	12	24	12
Coloram IT – 10"	810100	1000	4	8	16	8
CXI IT – 7.5"	87200	1500	6	12	24	12
Eclipse IT Shutter 1K, 2K, Lg Fmt	89020 811020 817020	1500	8	16	32	32
Eclipse IT Iris 1K, 10", 2K	87250 810060 812020	1500	6	12	24	12
Eclipse IT Iris 24"	823020	750	3	6	12	6

Cables

4-pin Power/Data Cable

The power/data cable uses 4-pin XLR connectors on either end and consists of two 14 AWG conductors and a 22 AWG twisted, shielded pair. The shells of the two XLR connectors are not electrically connected – this prevents high-power currents from flowing from chassis to chassis of the equipment. The twisted pair shield is connected only at the male XLR connector end. This is the standard Wybron power/data Cable.

XLR Pin #	Wire Color	Function	Size
1	White	Ground	14 AWG
2	Green	Data -	22 AWG
3	Red	Data +	22 AWG
4	Black	24 Volts DC	14 AWG

Note: The cable used for models of the Eclipse IT Iris is the same cable used for the Coloram IT, Coloram II, and Forerunner systems. The cable may be referred to as Wybron 4-pin cable.

DMX512 Control Cable

The DMX control cable from the lighting board to the dimmers, power supply, and Wybron's Infogate gateway (if used) is a five conductor cable with 5-pin XLR connectors on each end. The wiring pin out is specified by the USITT DMX512/1990 standard.

XLR Pin #	Function
1	Common
2	Data -
3	Data +
4	Talkback -
5	Talkback +

Non-RDM Equipment and Infotrace

A lighting rig can use any combination of non-RDM equipment along with Wybron's RDM-compatible equipment. The non-RDM equipment will work the old-fashioned way (hand addressing, no status reporting or other features). The RDM protocol allows configuration, status monitoring, and management of RDM devices in such a way that does not disturb the normal operation of the DMX devices that do not recognize the RDM protocol.

Coloram IT and Standard (Non-RDM) Environments

The Coloram IT family of products (Coloram IT, CXI IT, Eclipse IT Iris, and Eclipse IT Shutter, which all must be connected to PS power supplies) will work in any standard environment that does not use Infogate. (For more information about Infogate and Wybron's RDM-based Infotrace system, please go to page 23 of this manual.)

Specifications

- Fin speed (under DMX control):
  - Fast cut: 1K/7.5": 0.73 seconds (fully open to fully closed and vice versa)
    - 10": 0.85 seconds
    - 2K/12": 1.0 seconds
    - 24": 2.0 seconds
  - Cross fade: up to 60 seconds (movement without stopping)
- Operating modes:
  1. DMX512
  2. Local wired pendant control
  3. Local push button control (push buttons on the Eclipse unit)
- Number of DMX channels used: One
- Status Display: Backlit display
- LED Indicators:
  - Red: Power
  - Green: DMX signal
- Wired Pendant Control Cable:
  - 3 conductor with 3-pin XLR connectors
  - Up to 1,000 feet long
- Control Pendant 3-pin XLR connector pin functions:
  - Pin 1: Connect to common to open the fins
  - Pin 2: Connect to common to close the fins
  - Pin 3: Common
- Current Requirements:
  - 1K/7.5", 10", 2K/12", 24": 1.0 Amp @ 24 VDC
- Fuse:
  - 1K/7.5", 10", 2K/12", 24": 1.5 amp Slo-Blo
- Mounting Plates:
  - Various plates available to fit a wide variety of fixtures
  - (Please refer to Wybon's Web site at www.wybron.com for details)
- Fan:
  - Small, low-speed fan to cool the electronics enclosure
- Safety Cable:
  - 3.5 feet long cable included
- Daisy Chaining:
  - Individual DMX addresses on one home run
- Power Supply Compatibility:
  - PS-150 Power Supply (150 watts)
  - PS-300 Power Supply (300 watts)
  - PS-600 Power Supply (600 watts)
  - PS-450i Permanent Install Power Supply (300 watts)
- Signal Termination: None required (depends on system configuration)
- Weight:
  - 87250 — 1K/7.5" Eclipse IT Iris: 4.76 lbs/2.15 kg
  - 810060 — 10" Eclipse IT Iris: 7.00 lbs/2.63 kg
  - 812020 — 2K/12" Eclipse IT Iris: 8.00 lbs/3.63 kg
  - 823020 — 24" Eclipse IT Iris: 31.96 lbs/14.5 kg

- Aperture Diameter:
   87250 — 1K/7.5" Eclipse IT Iris: 7.5"/190.5mm
   810060 — 10" Eclipse IT Iris: 10"/254mm
   812020 —2K/12" Eclipse IT Iris: 12.0"/304.8mm
   823020— 24" Eclipse IT Iris: 24.5."/622mm
- Overall Dimensions:
   87250 — 1K/7.5":
   10.88"/276.36mm wide x 12.89"/327.41mm high x 4.5"/114.3mm deep

   810060 — 10":
   18.36"/466mm high x 15.52"/367mm wide x 4.82"/122mm deep

   812020 — 2K/12":
   20.55"/522mm high x 17.88"/454mm wide x 4.83"/123mm deep

   823020— 24"
   34.66"/880mm high x 34.66"/880mm wide x 9.76"/248mm deep

Parts List

To order any of the following items, contact an authorized WYBRON dealer. Or go to www.wybron.com

Eclipse IT Iris Dowsers and Power Supplies

   87250...................................1K/7.5" Eclipse IT Iris Dowser
   810060 ....10" Eclipse IT Iris Dowser
   812020 ....2K/12" Eclipse IT Iris Dowser
   823020 ....24" Eclipse IT Iris Dowser
   820150 ....PS-150 Power Supply, 150 watts
   820300 ....PS-300 Power Supply, 300 watts
   820600 ....PS-600 Power Supply, 600 watts
   20250...................................PS-450i Power Supply, 300 watts (permanent install)

Wybron 4-Pin Cable

   7042-3 ....3' power/signal cable
   7042-5 ....5' power/signal cable
   7042-10 ....10' power/signal cable
   7042-15 ....15' power/signal cable
   7042-25 ....25' power/signal cable
   7042-50 ....50' power/signal cable
   7042-75 ....75' power/signal cable
   7042-100 ....100' power/signal cable

Eclipse IT Iris Brackets and Accessories

715-01-03P...........................PS-150-300-600 Power Supply hanger bracket
SCRWC252075...................Wing screw for Power Supply hanger bracket to pipe
SCRSC2520037.................Socket cap screw for hanger bracket to Power Supply
11010-1..............................Control Pendant

Infotrace Control and Management System Overview

Figure 8

The diagram above outlines the key components of the Infotrace Control and Management System, which uses the following terms:

Infotrace	–	The entire system is referred to as the Infotrace system.
Infogate	–	The software and hardware required to facilitate the transfer and display of information.
Infochip	–	A conversion chip that can be used with non-RDM equipment to allow it to communicate with the Infogate software.
Infostore	–	An Internet-based application that aggregates data captured by Infogate and accumulates the historical information related to equipment performance.
IT Products	–	Coloram IT, CXI IT, Eclipse IT Shutter, and Eclipse IT Iris all have updated electronics to support RDM communication plus additional product improvements, including sensors to detect a variety of conditions.

The heart of the Infotrace (IT) system is Infogate – specialized software and hardware that uses the feedback protocol Remote Device Management (RDM) to facilitate remote addressing and diagnostics for potentially every piece of equipment mounted on a rig. Infogate works with all Wybron IT products and all RDM-compatible equipment from any manufacturer.

In addition, any non-RDM equipment can be upgraded with the installation of an Infochip. Because Infogate can work with any piece of equipment, the setup, unit testing, and troubleshooting for an entire rig can be coordinated from a single laptop.

Wybron's IT equipment (Coloram IT, CXI IT, Eclipse Shutter IT, and Eclipse Iris IT) is equipped with a series of sensors that can relay a wealth of information to Infogate. These sensors can detect everything from light, voltage, and current, to fan speed and even gelstring frame color information.

So while RDM equipment will allow identification and remote addressing, IT equipment can give more specific status information and warn of potential problems, possibly averting failures in the middle of a show. If the status of a device indicates any problem, Infogate displays an alert with the nature of the problem and its exact location. Troubleshooting is now done in a fraction of the time.

Infotrace provides the ability to:

- Automate the setup of DMX addresses – no more manual setting of DIP switches
- Proactively check the condition of equipment before, during and after a show
- Track lamp duty cycles to predict lamp failures before they happen
- Predict maintenance on equipment

Sensors

• Aperture Light Sensor: Detects if the fixture's lamp is on.

• Voltage Sensor: Reports the head voltage level.

• Timers: Tracks how many hours unit has been in operation since last maintenance cycle.

• Fan RPM Sensor: RPM sensor on fan.

• Self-Test Mode: Moves the dowser fins without a DMX input command.

Alert Warnings

- Fan Stopped Warning
- High Motor Current Warning during initialization
- Init Fail
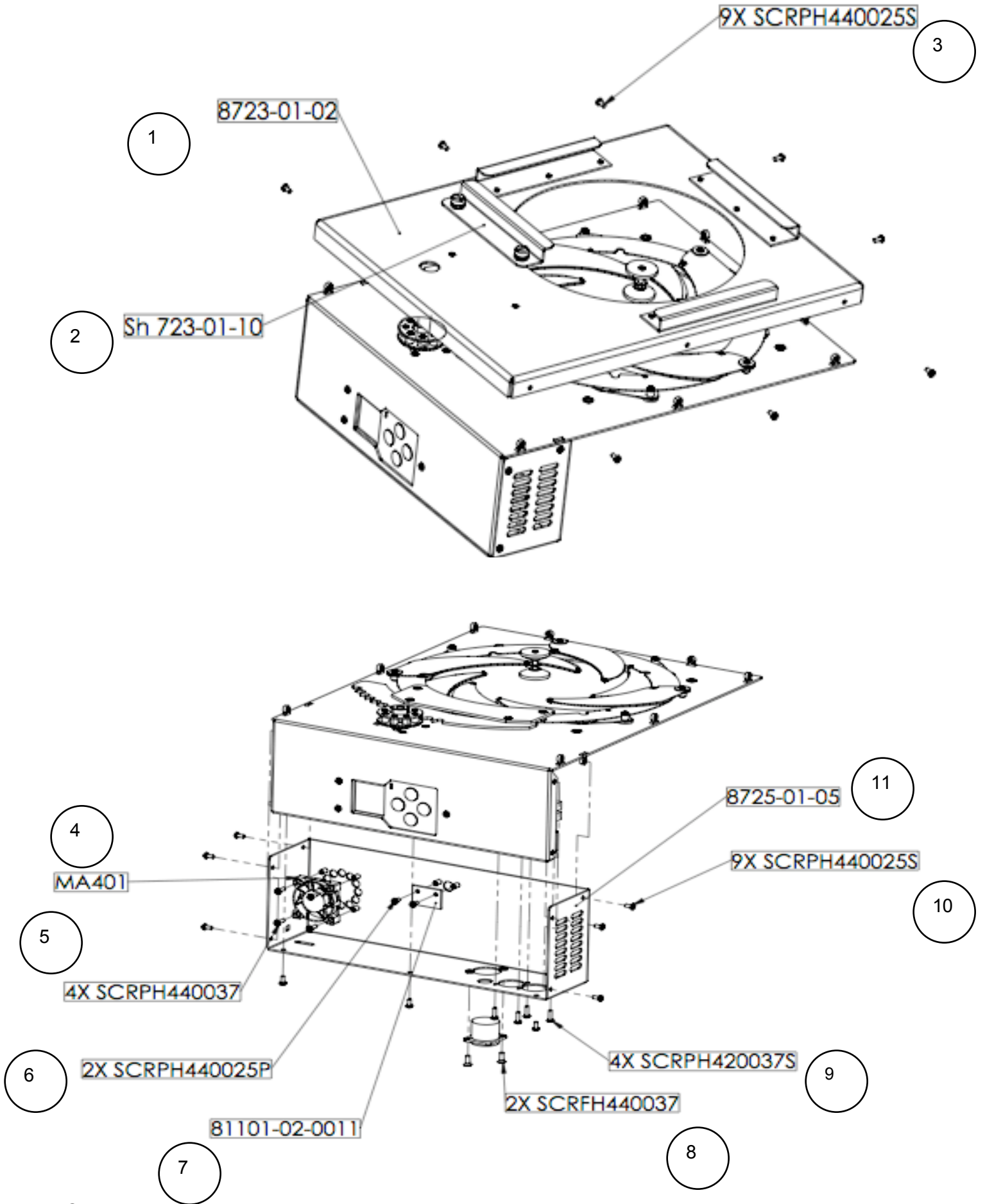- Low Voltage Alert
- Low Voltage Unit Shutdown

Features

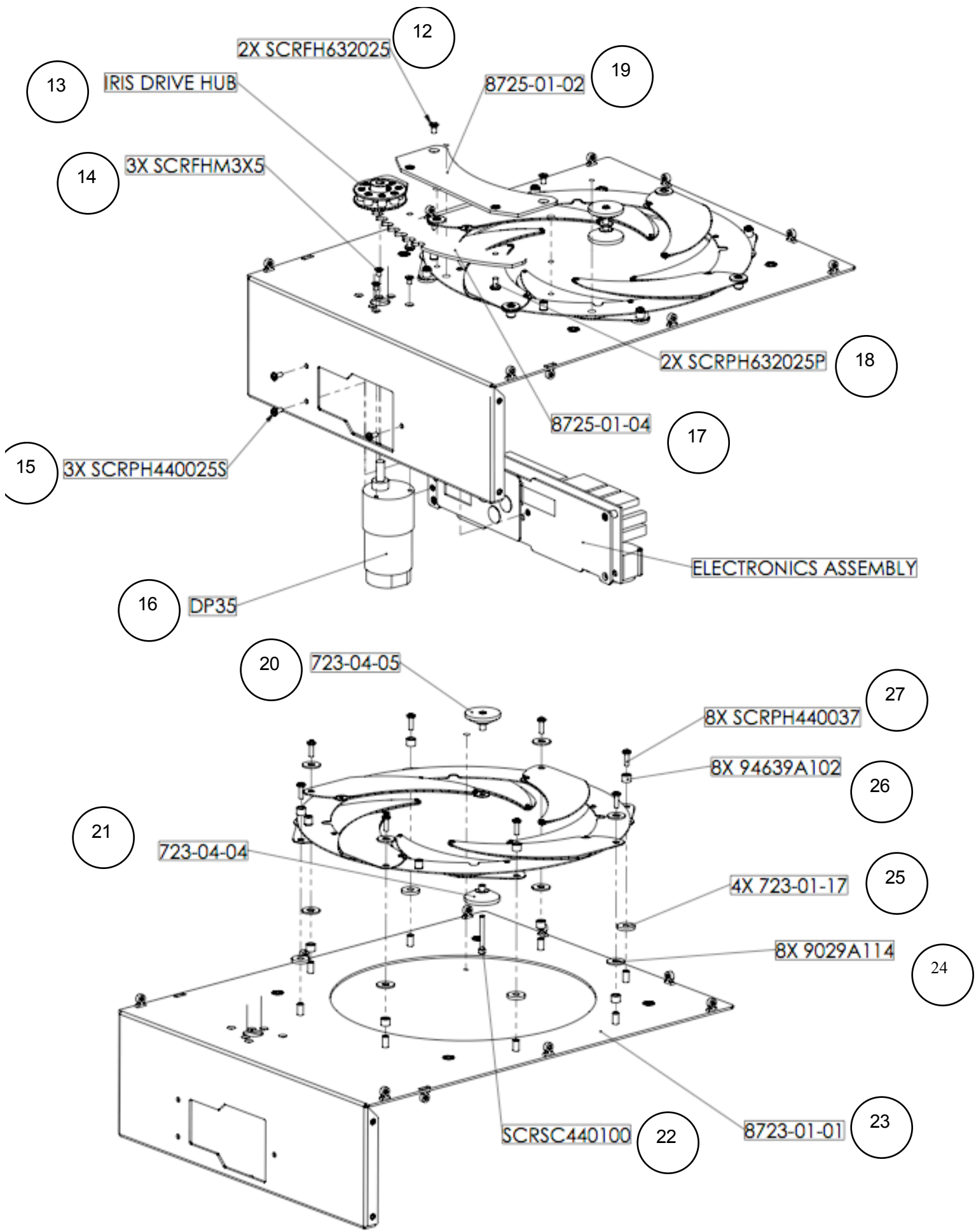Self-Test Mode: Moves the dowser fins without a DMX input command.

Reverse Polarity Protection: Auto shutdown if dowser plugs into a Coloram II power supply.
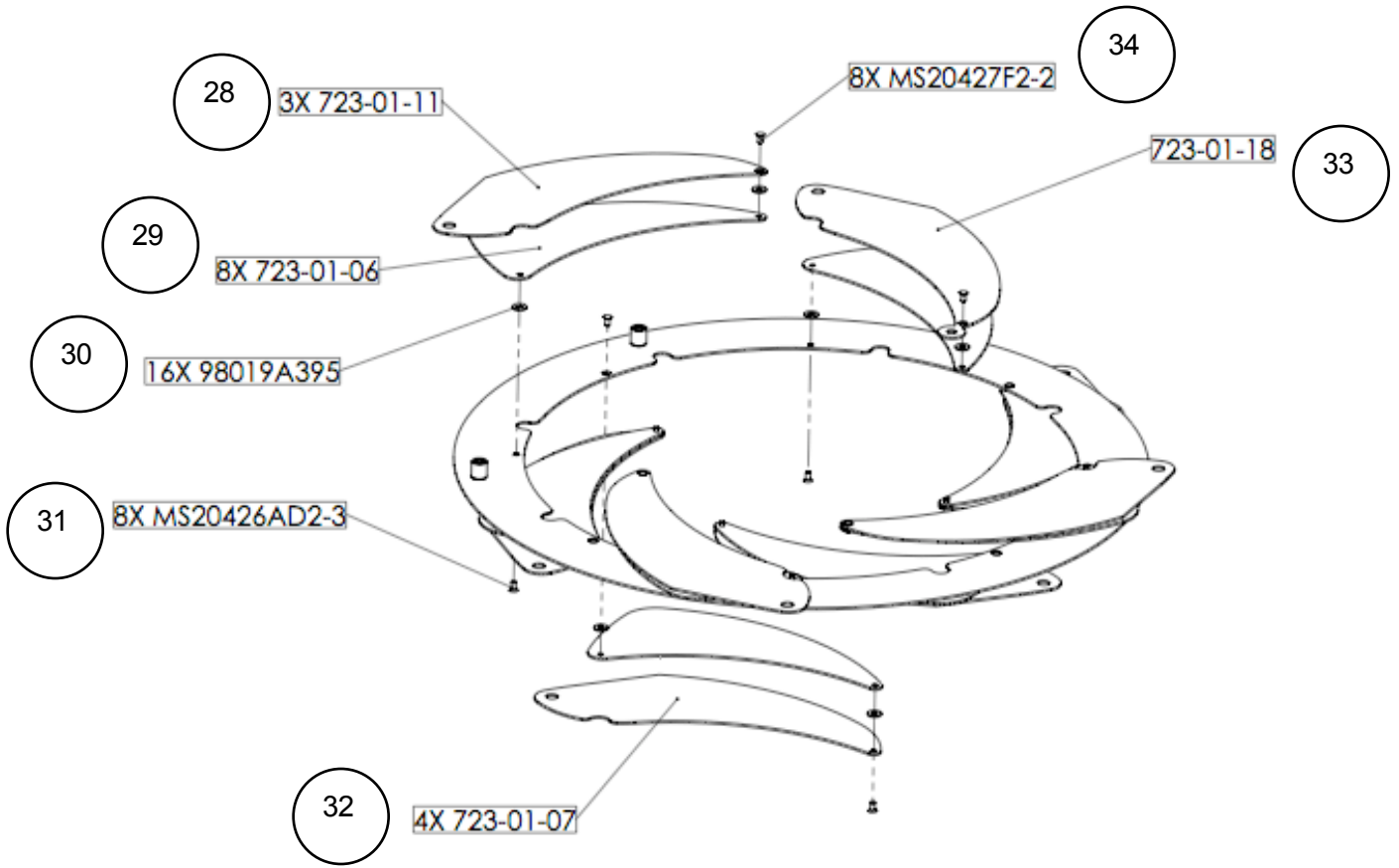
Eclipse IT Iris Illustrated Parts Breakdown

Model 87250: 1K/7.5" Eclipse IT Iris Dowser

Callout	Quantity	Part Number	Description
(1)	4	SCRFH632150	Flat head screw
(2)	8	Z-2287	Grommet
(3)	1	F0825	Fan 600w
(4)	1	2060-01-02	Board bracket 600w only
(5)	4	SCHRFHM4X8	Flat screw head 4mm X 8mm
(6)	4	SCRPH440025P	Pan head black with patch
(7)	4	SCRFHM4X8	Flat screw head 4mm X 8mm
(8)	2	SCRFH832037	3/8 Flat head black stainless
(9)	1	2024-01-06	24-way power supply fan plate
(10)	2	67-1160-ND	5mm green LED
(11)	2	2060-01-03	LED bracket
(12)	2	67-1162-ND	5mm red LED
(13)	1	2060-02-0011	Circuit card
(14)	1	NC5MP	5-pin chasis MT male
(15)	8	NC4FD-L1	4-pin chasis MT female (600W)
(16)	20	SCRFH440037	Flat head screw
(17)	1	NC5FP	5-pin chasis MT female
(18)	1	031-1666	Fuse cap round
(19)	1	313-007	Fuse 7 amp
(20)	1	031-1693	Fuse holder body
(21)	2	SCRFH632037	3/8 Flat head
(22)	1	10EEA1	Power connector filter
(23)	4	SCRPH440037	Pan head screw
(24)	1	F0825	Fan 600W
(25)	1	2060-01-02	Board bracket 600w only
(26)	4	SCHRFHM4X8	Flat screw head 4mm X 8mm
(27)	4	SCRPH440025P	Pan head black with patch
(28)	4	SCRFHM4X8	Flat screw head 4mm X 8mm
(30)	2	SCRFH832037	3/8 Flat head black stainless
(31)	1	2024-01-06	24 way power supply fan plate
(32)	2	67-1160-ND	5mm green LED
(33)	2	2060-01-03	Led bracket
(34)	2	67-1162-ND	5mm red LED

9X SCRPH440025S

3

8723-01-02

1

Sh 723-01-10

2

11

8725-01-05

9X SCRPH440025S

4

10

MA401

5

4X SCRPH440037

6

2X SCRPH440025P

4X SCRPH420037S

9

2X SCRFH440037

81101-02-0011

8

7

25

- (12) 2X SCRFH632025
- (13) IRIS DRIVE HUB
- (19) 8725-01-02
- (14) 3X SCRFHM3X5
- (18) 2X SCRPH632025P
- 8725-01-04
- (17)
- (15) 3X SCRPH440025S
- ELECTRONICS ASSEMBLY
- (16) DP35
- (20) 723-04-05
- (27) 8X SCRPH440037
- (26) 8X 94639A102
- (21)
- 723-04-04
- (25) 4X 723-01-17
- (24) 8X 9029A114
- (22) SCRSC440100
- (23) 8723-01-01

26

28 3X 723-01-11

8X MS20427F2-2

34

723-01-18

33

29

8X 723-01-06

30 16X 98019A395

31 8X MS20426AD2-3

32 4X 723-01-07

Warranty Information

WYBRON, INC. warrants to the original owner or retail customer that for a period of one year from date of delivery of a portable system or energization of a permanently installed system (up to a maximum of 18 months from delivery) its products will be free from defects in materials and workmanship under normal use and service.

Warranty does not cover any product or part of a product subject to accident, negligence, alteration, abuse, misuse or any accessories or parts not supplied by WYBRON, INC. Warranty does not cover "consumable" parts such as fuses, lamps, or color media. WYBRON, INC.'s warranty does not extend to items not manufactured by us. Freight terms on warranty repairs are FOB WYBRON, INC. factory or designated repair facility. Collect shipments or freight allowances will not be accepted.

WYBRON, INC.'s sole responsibility under this warranty shall be to repair or replace at WYBRON, INC.'s option such parts as shall be determined to be defective on WYBRON, INC.'s inspection. WYBRON, INC. will not assume any responsibility for any labor expended or materials used to repair any equipment without WYBRON, INC.'s prior written authorization. WYBRON, INC. shall not be responsible for any incidental, general or consequential damages to property, damages for loss of use, time, profits or income, or any other charges.

The owner's obligations during the warranty period under this warranty are to notify WYBRON, INC. at WYBRON, INC.'s address within one week of any suspected defect, and return the goods prepaid to WYBRON, INC. at their factory or authorized service center.

This warranty is contingent on the customer's full and timely compliance with the terms of payment set forth in said purchase order. This warranty is expressly in lieu of any and all other warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose and of other obligations and liabilities on our part. The owner acknowledges that no other representations were made to him or relied upon him with respect to the quality and function of the goods sold.

This written warranty is intended as a complete and exclusive statement of the terms thereof. Prior dealings or trade usage shall not be relevant to modify, explain or vary this warranty. Acceptance of, or acquiescing in, a course of performance under this warranty shall not modify the meaning of this agreement even though either party has knowledge of the performance and a chance to object.

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Revision History

Version	Author	Date	Description
2.0	John Tabor	2/10/09	Model numbers