

Prism2

Operators Manual



Table of Contents

Introduction	3
Technical Specifications	3
Technical Drawings	3
Warning	4
Storage and Transportation	4
Emergency Switch Usage	4
System Requirements	4
Fluids	4
Operating Procedure	5
DMX Operation	5
Warranty	6
Contact Information	6

Please read these instructions carefully before operating.

Introduction

The Prism2 is a four-color flame delivery system. It ignites an alcohol mixture producing vibrantly colored pillars of flame. Each channel can produce a unique shade or two channels can be mixed together. The Prism2 utilizes a 1-pound propane tank to provide reliable piloted ignition. It also requires compressed air and electrical power. Air propels the fluids through the delivery jets. Electrical power is needed for the ignition and control system.

Technical Specifications

Model: Prism2 Colored Flame System

Part Number: FLM1110

Length: 12" 30.5cm

Width: 12.1" 30.8cm

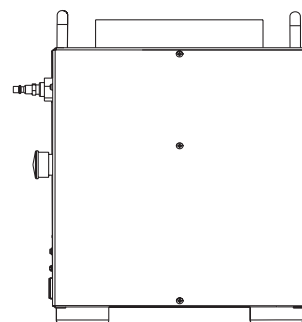
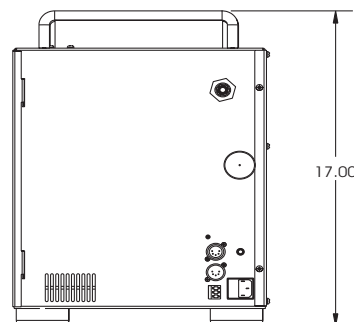
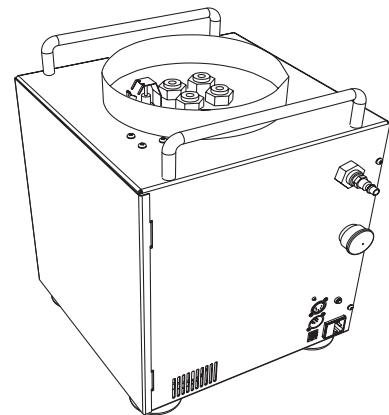
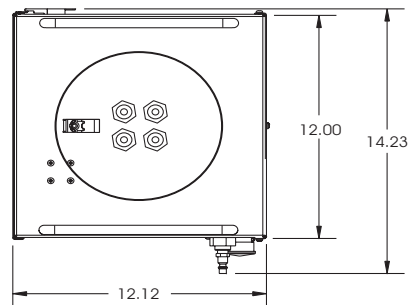
Height: 17" 43.2cm

Net Weight: 35lbs 15.9kg

Power Rating: 110 Volt A.C. / 60Hz / 1 Amp

Fluid: 1lb Propane Cylinder
FireStorm Color Flame Solution™

Technical Drawings





Warning

Important Safety Instructions:

1. The Prism2 has a flame height of 15' - Appropriate clearance from flame heat is also required.
2. Only use the unit in a well-ventilated area.
3. Place the Prism2 on a flame resistant surface as burning fluid can fall around the unit. Provide 18" clearance on all sides of the unit.
4. Read the fluid MSDS before using the Prism2. Have an approved fire extinguisher on-hand. **MSDS sheets for fluid can be found on www.ultratecfx.com**

Storage and Transportation

When the Prism2 is not in use or during transport, the unit should be emptied of fluid and propane. Fluid should be resealed and stored in a well-ventilated area. Storage and transportation must comply with local and federal codes.

Emergency Switch Usage

A keyed emergency stop switch allows the unit to be disabled if unattended or during refueling. For safe operation, a second keyed remote emergency stop must be conveniently located in visible range of the unit. **This switch must be manned during operation and locked off when not in use.**

System Requirements

Air pressure must be maintained with flow rate bursts over 20 cfm. Many air sources can't provide this flow but the addition of an air tank can provide the extra bursts of air. If air pressure drops below 50 PSI, the Prism2 will not operate. An air regulator is supplied with the Prism2 which should be set at 70 PSI. The unit is connected to a 115-vac circuit and draws approximately 1 amp. A standard 1-pound propane tank is needed to provide the pilot ignition.

Fluids

FireStorm Color Flame Solution™ is available in the following colours:

- Blue
- Green
- Orange
- Red
- Yellow



Operating Procedure

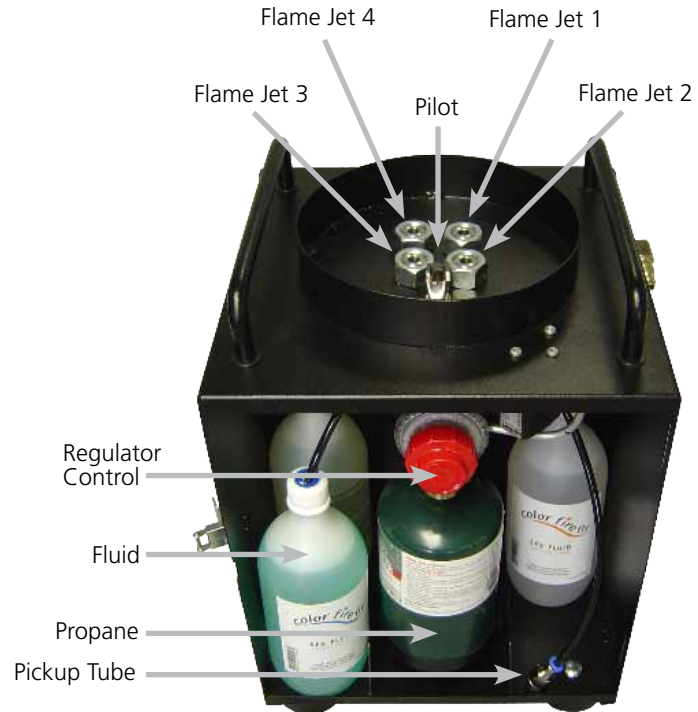
Before installing the propane cylinder, verify its regulator's tank seal is in place. Turn off the emergency stop switch. Install the tank and check for leakage. The Regulator Control allows for the pilot size to be adjusted. Test the pilot and air source before loading the fluid. Watch the air pressure as the jets are cycled; a minimum output of 70 PSI is required. Low air pressure causes fallout of fluid while high air pressure causes excess flame lifting.

NOTE: Keep the fluid sealed until required. Excess exposure to air will result in poor performance, as the volatile components will separate.

Install the fluid and verify that the Pickup Tube is at the bottom of the bottle. Before firing the unit, verify that sufficient overhead clearance exists. Include safe clearance above the flame height and a Flame Resistant floor area.

NOTE: If running the unit outdoors, watch for windy conditions, which could blow the flames horizontally. When indoors, only operate in an area with adequate ventilation.

To create the intense flame effect, the fluid is rapidly consumed. Typical burn rates are 45 seconds per litre. To maximize the effect a series of short burst over a long burn is desired. If a very long effect is needed several channels can be loaded with the same color and sequenced to increase the duration. A maximum of two channels operating simultaneously is recommended.



DMX Operation

Control is accomplished by a DMX link. The base DMX address is set on the push switches. The Prism2 now occupies that address plus the next four. The base address starts the pilot flame.

Air line pressure must be present to allow the unit to operate. DMX channels 2-5 control the color jets 1-4 consecutively. The pilot and jets are only 'on' or 'off'. The pilot must be lit before selecting the required flame. The jets can be bumped on from the DMX controller but the "ON" time should be 1 second or greater; this allows the fluid stream to stabilize which reduces spitting. A Red LED provides feedback on DMX operation.

Red LED indicates DMX status:

- Solid Red:* Indicates that a valid DMX stream is present.
- Flashing Red:* Indicates stability problems in the DMX stream.
- No Light:* Indicates that a DMX signal is not detected.

Green LED displays ignition status:

- Solid Green:* Indicates good ignition.
- Flashing Green:* Indicates ignition failure & the igniter is in lockout. Power must be reset to clear the lockout.



Warranty

Warranty:	<p>All warranty is for one year parts and labour unless specified or manufacturer defect only. Abuse or Poor Maintenance will not be covered under warranty. Ultratec Special Effects Fluids must always be used. Use of any non Ultratec Special Effects Fluids will void all warranties. Accept no substitutions as there are no exceptions to this rule. Proof of Purchase or Proof of Sale must always accompany any warranty returns. An RA (return authorization) number must be noted on the outside of the box being returned to our facilities. Any packages without a clearly marked RA number will not be accepted by our receiving department. Freight on warranty items are freight prepaid to our facility and we will prepay freight back to your facility after repair by the most economical means available. Should you require the item express-returned, then you are responsible for any difference in freight cost.</p>
Return Policy:	<p>Return of any product must be done within 30 days of purchase. The package must be returned freight prepaid and the RA number clearly marked on the outside of the box. Minimum restocking fee is 25%. Once our facility has received the product a technical assessment will be completed to determine if an additional restocking fee needs to be issued. Only credits are issued to the dealers account. Any product not returned within 30 days is considered purchased.</p>
Warning:	<p>Ultratec Special Effects Inc. considers all of it's product to be safe for use in the application it was intended. Ultratec Special Effects takes no responsibility for misuse or incorrect use. Always refer to the Product Manual for proper use.</p>

Contact Information

Head Office

1960 Blue Heron Drive
London, Ontario N6H 5L9

Direct: 519-659-7972
Toll Free: 866-534-5557
Fax: 519-659-7713

Canadian Shipping Address

(For All Canadian Repairs)
1960 Blue Heron Drive
London, Ontario N6H 5L9

USA Shipping Address

(For All USA Repairs)
657 Gadson St, Unit 300
Groveland, Florida 34736

Please remember to include the **RA Number on all items being shipped for repairs.**

To get an RA Number, *visit www.ultratecfx.com* and click on the "Service" tab and then click on "Master Service Tracker" or contact service at 519-951-3355 or 866.534.5557