TWISTER X

Operators Manual

ultratec special effects

v.032022

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Introduction

The Twister X is a heavy duty fan that is versatile and powerful. It can be used in many applications, pushing fog or haze, blowing bubbles or distributing snow evenly across the stage.

This unique design makes the fan user-friendly.

The Twister X comes with a built-in DMX and can be controlled via its DMX interface.
The Twister X has a five year warranty when due to manufacturer's defect.

Warning!!

Important Safety Instructions:

1. Do not remove the outer case.
2. Persons suffering from asthma or allergenic sensitivity may experience irritation, discomfort or allergic symptoms when exposed to fog effects.
3. Ensure that this unit is grounded at all times. Failure to do so may result in serious injury.

Safety Precautions

1. Ensure that any operation of the machine is supervised by suitably trained and authorized personnel.
2. Do not modify the machine or use a machine which has been damaged in any way.
3. Allow sufficient air circulation around the machine at all times.
4. Protect the machine from direct weather effects and wet locations. Suitable for dry locations only.
5. Ensure that adequate exhausting arrangements are available in the event of an emergency.
6. Haze and fog effects can trigger smoke alarms and detectors. Please take suitable precautions to prevent false alarms.
7. This machine moves large volumes of air very quickly. It can easily suck hair, loose items, jewelry and debris into the airstream. Please ensure all loose items are stowed or tied away to prevent this.
8. This machine has parts that rotate very quickly, please keep fingers away from intake and exhaust air streams.

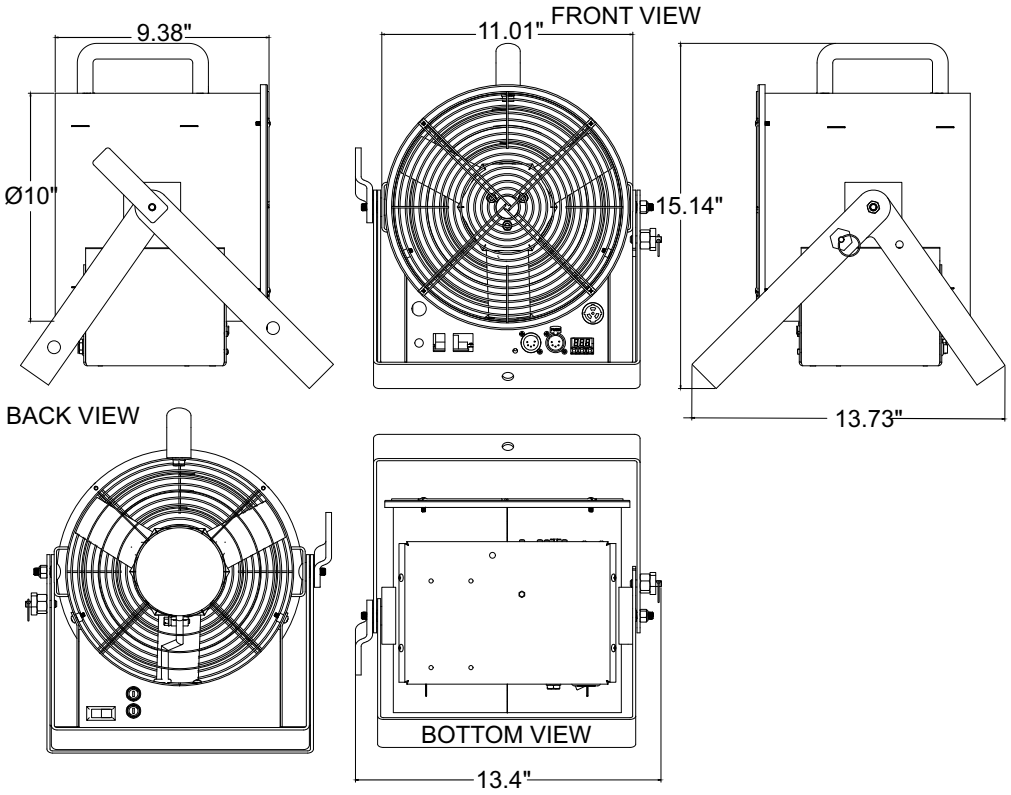
Technical Specifications

Model :

Features:	1/3HP Fan Motor
	120/230 V 50/60Hz
	Variable Frequency Motor Drive
	Full Range Speed Control (0-3400 R.P.M.)
	Compact Design: 10" Diameter Fan
	Built-In Stand Alone Operation with “BUMP” button control
	DMX Control with RDM
	Reversible Air Flow
	360 Degree Easy Positioning with Sitting/Hanging Frame
	Truss Mountable
	1500 CFM Performance
	Wide pattern or focused pattern outputs to achieve very directional flow
	Externally accessible fuses
	Selectable DMX Display Visibility: Visible/ Stealth Mode
	3 Precision Blades (individually replaceable)
Length:	13.7"
Width:	13.4"
Height:	15.1"
Net Weight:	26 LBS/11.8 Kg
Power Cord:	12' (365 cm) 18/3
Rating:	120/240 VAC 5/2 amps

Regulatory Compliance: This product has been certified to CSA/UL Standards by QPS Canada Inc.

Technical Drawings



Twister X Setup

Hidden Display:

The Twister X has the option of hiding the DMX address display (default), or always visible DMX address display.

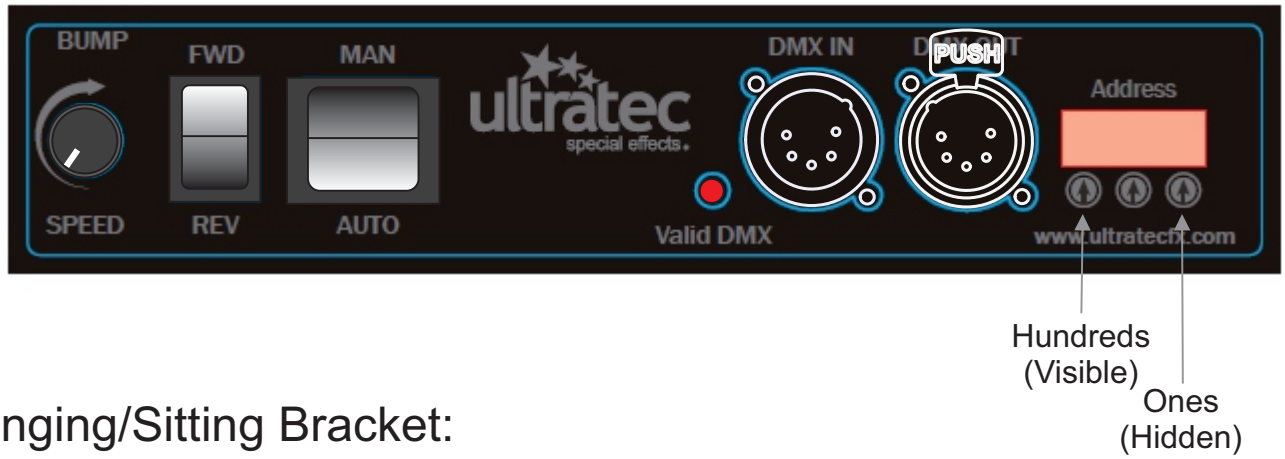
NOTE: During first time operation the display is in hidden mode.

After power up, the rear display will momentarily show the code revision levels in the machine and then display the DMX setting for several seconds. The display will blank after a short period of time. Touching an arrow key will relight the display. Further activation of the keys will alter the DMX setting.

Holding the hundred's button during power up, will switch to DMX visible mode. To return hidden, hold the ones's button during power up.

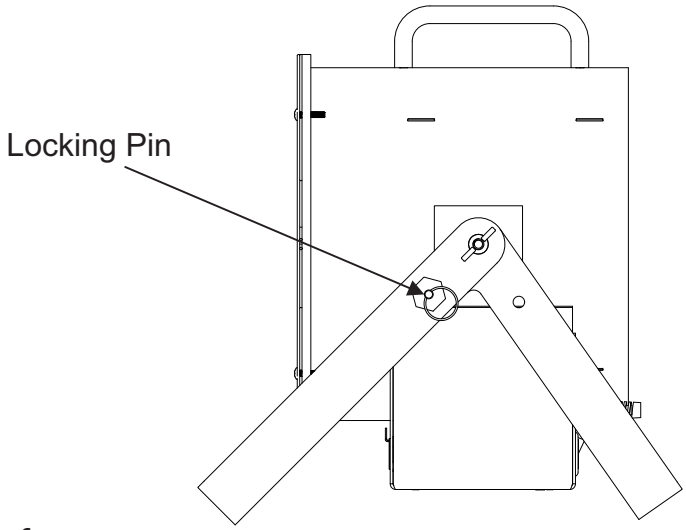
NOTE: Unit will retain the last display setting at next power up

NOTE: The hidden / visible DMX display setting only applies to the valid DMX address ranges. When the unit is in the Stand-Alone mode the display will continuously stay visible regardless of which display mode it is set to.



Hanging/Sitting Bracket:

The bracket is adjusted by pulling the locking pin and moving the arms to the desired position and releasing the pin, locking it back in place.



DMX Operation

Plug the unit into a suitable power source.

For DMX Operation make sure the mode selector switch is in AUTO position.

The DMX control will occupy 2 consecutive channels. The first channel controls the fan speed.
The second channel determines beam focus/direction of flow.

The unique design of the Twister X allows for a focused beam flow of air or a wide beam flow of air. Forward direction of flow will create a wide beam flow output in one direction, and a focused beam flow output when turning in the opposite direction.

DMX Address = Allows speed adjustment of fan.
0% = OFF 1% - 100% is low to high speed

DMX Address +1 = Allows adjustment of focused flow or wide beam flow .
0% - 49% is focus flow (forward)
50% - 100% is wide beam flow (reverse)

Note: If the unit is in the native hidden display mode; The display goes to sleep when not in use. Touching any key once wakens it. Further activation of the keys will alter the DMX setting.

1. Connect a 5 pin DMX cable to the DMX IN XLR.

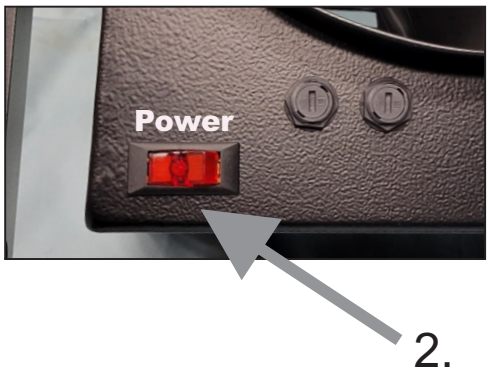
2. Turn power switch to ON position; it will illuminate if power is present.

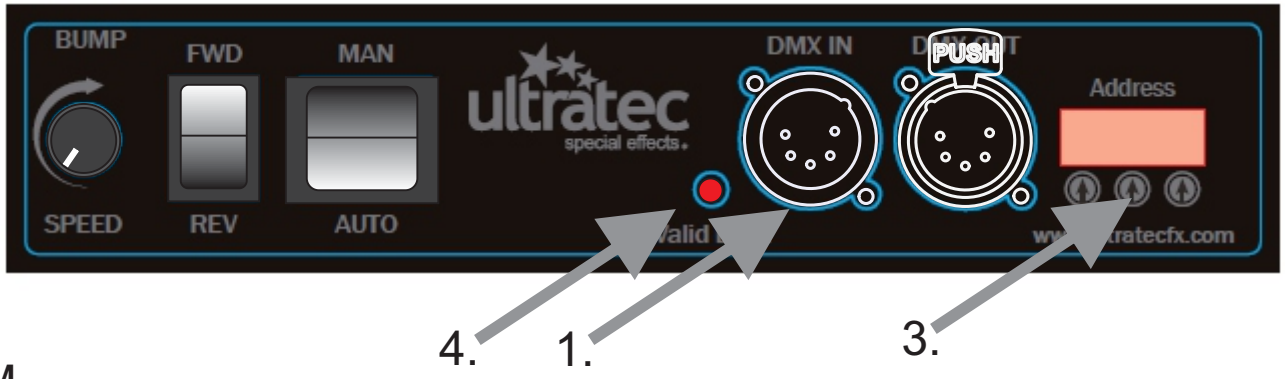
3. Set desired DMX address on the digital display (using the arrow keys) between 001 to 511.

4. If valid DMX signal is present, the red valid DMX LED will be on solid.

5. Adjust DMX levels to control fan speed and beam /direction.

Note: DMX control is indicated when the valid DMX light is solid RED.





RDM

The DMX connection is also RDM enabled.
Basic instruction set includes identification and DMX re-addressing.

Stand Alone Operation

For Stand Alone Operation make sure the mode selector switch is in MANUAL position.

Note: Stand Alone Operation overrides DMX.

The fan can be controlled locally by the Fan Speed Control, The BUMP button and the Fan Direction switch.

1. The momentary BUMP Button is used to achieve bursts of full speed fan rotation while depressed. When not depressed, the fan returns to it set speed.

2. The Fan Speed knob is used to adjust the speed of the fan rotation. At its most counter clockwise position, the fan is at its lowest speed, and increases as the knob is turned clockwise.

3. The Fan Direction switch is used to control the direction of rotation of the fan. Forward direction of flow will create a wide beam flow output in one direction, and a focused beam flow output when turning in the opposite direction.

A second method of stand alone operation can be achieved by the following process (With the Mode switch set to Auto):

4. The fan can be controlled locally by using higher numbers in the DMX display.
   700-799 will give focused beam/forward fan speed settings of 0-99 which equates to OFF to 100% full on.
   800-899 will give wide beam/reverse fan speed settings of 0-99 which equates to OFF to 100% full on.

Note: Stand Alone Operation overrides DMX

Note: The hidden / visible DMX display setting only applies to DMX Mode. When the unit is in the Stand-Alone mode the display will continuously stay visible regardless of which display mode it is set to.

Maintenance Procedure

Exterior

The casing of the Twister X is steel with a powder paint coating. To clean simply wash with mild soap and warm water. **Ensure the power is disconnected when cleaning!!!**

Troubleshooting

NOT POWERING UP:

1) Check that power switch is in ON position on and illuminated.
2) Check power cord is securely inserted and locked into Fused Power Entry Module and connected to an appropriate power source.
3) Verify that the supplied voltage is correct for the fans setup.
4) Check that either one of the two fuses located on the chassis have not failed.
5) Contact Ultratec Special Effects Service Department. .

FAN NOT TURNING:

1) Check that fan blades are not full of dust / debris.
Clean fan blades (Ensure unit is disconnected from any power source).
2) Look for visual damage to fan blades / motor.
3) Contact Ultratec Special Effects Service Department.

If in Auto/ DMX Mode:

1) Check that DMX address is set to correct address being used.
2) Verify that Valid DMX LED is ON solid confirming good DMX signal.
3) Verify that correct DMX address is being sent to unit from DMX console.
4) Ensure Auto/Manual mode switch is set to Auto.
5) Contact Ultratec Special Effects Service Department.

If in Manual Mode:

1) Ensure Auto / Manual mode switch is set to Manual.
2) Check that manual speed control dial is not damaged and is adjustable.
3) Contact Ultratec Special Effects Service Department.

Warranty

Hardware products come with a five-year warranty on parts and labor. If the unit in question has a material defect or fault that is caused in manufacturing, Ultratec Special Effects will provide free parts and labor to remedy the equipment. Ultratec Special Effects service department must be advised in a timely manner after defect appearance and the date of warranty request must be within five years of sale/purchase. Proof of sale and/or proof of purchase will be required for warranty to take effect.

Warranty service will be performed as follows: faulty parts will be repaired or replaced with the same or comparable parts, based on availability. Freight to our facility for warranty requests will be prepaid by the user/dealer. Upon completion of the repair, Ultratec Special Effects will return the unit via the most economical means available. Should you require the item express-returned, the user/dealer is responsible for indicating this request and for any difference in freight cost.

Warranty will be voided, and customer will lose all rights guaranteed by the warranty if any of the following are observed/occur:
If any non Ultratec Special Effects fluid is used at any point of operation.
If any adjustments or repairs are done to the machine in question by repair technicians not authorized by Ultratec Special Effects.
If our repair technicians observe any signs of incorrect handling/treating of machine in question.

Warranty services do not cause an extension of the warranty nor does a repaired product start a new warranty. This warranty only applies to the product supplied by Ultratec Special Effects, Ultratec Special Effects is not responsible for any losses, costs, or damages from the use of a defective product.

Any additional costs incurred are the responsibility of the Dealer and/ or the customer.
An RA (Return Authorization) number must be noted on the outside of each box being returned to our facility. Any package(s) without an RA number clearly marked, will not be accepted by our receiving department.

Export Distributors are required to carry out the warranty repair, parts will be supplied by Ultratec.

Please remember to include the RA Number on all items being shipped in for repairs.
To request a Return Authorization number please refer to our website - instructions below:
1) www.ultratecfx.com
2) Click on the SUPPORT tab along the top of the screen
3) Click on REQUEST RMA from the pull down
4) Fill in the required information
5) Click on "SEND" button
If you have any questions or require assistance please contact service at
519-951-3355/866-534-5557 or by email at Service@Ultratecfx.com.

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