

UNI-FLASH

Quartz Flash Cure Unit



MACHINE SOLUTIONS, INC.
SPARTANBURG SC

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Instruction Manual

Section 1: SAFETY

UNIFLASH

WARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

The UniFlash is designed to quickly emit very high infra-red heat and can cause fire if not used properly. Always test the unit prior to production to ensure that timing and power settings are correct. The height of the flash above your pallet is also very important. Make sure that all control features are checked and adjusted prior to every production run.

WARNING

**Check Pallet Clearance, Timer Dwell, and Power
BEFORE EVERY PRODUCTION RUN**

WARNING

**The UniFlash uses state of the art
Quartz Emitter Technology.**

**The Bulbs are Delicate.
Handle them with extreme care.**



Section 2: Circuit Requirements

UNI-FLASH

Please Call us for electrical specifics if they are not filled in already for you.

_____ Volts

_____ Amps

_____ Phase



! WARNING

This Unit should be connected to your house electrical service by a Professional Electrician Only

Main On/OFF



Failure to follow this specific direction will Void every and all warranties immediately. MSI will assume no responsibility for anything if you do not use a trained professional for wiring of the electrical service to this machine. **USE an ELECTRICIAN!**

Section 3: Initial Setup

UNI-FLASH

Great Care was taken when preparing your new UniFlash for shipment from our factory. Please ensure that the machine is inspected immediately upon arrival for any possible freight damage and report immediately. Inspection should take place prior to signing Bill of Lading.

Section 4: Bulb Care

! CAUTION

The Bulbs of your machine are very carefully wrapped and separately packaged to ensure their safe arrival. These components are expensive, very delicate and should be handled with care and concern. Only Handle The Bulbs on the ends. Wipe with a soft cloth and alcohol for cleaning.



Prior to replacing damaged or expended bulbs, be absolutely certain that the UniFlash is completely unplugged from its electrical service. Make sure to allow the bulbs and housing a minimum of 15 minutes to completely cool off before attempting to handle the unit and replace the bulbs.

! CAUTION



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Section 4: Operation & Controls

UNIFLASH

⚠ Read
Carefully



Zone Controls 1, 2, & 3

The UniFlash has 3 user controlled zones to allow the operator to cure only the necessary areas. This will minimize your electric bill and has many additional benefits. Any combination or all zones are available for use at one time. **Use the TEST momentary push button to observe which zones are selected.**

Dwell Timer

This is the main timer unit and determines how long until the unit will stay at it's peak power. This timer is only used if there is not a direct interface with your machine. All newer machines with Touchscreen Controls interface directly with your UniFlash and will defeat the timer

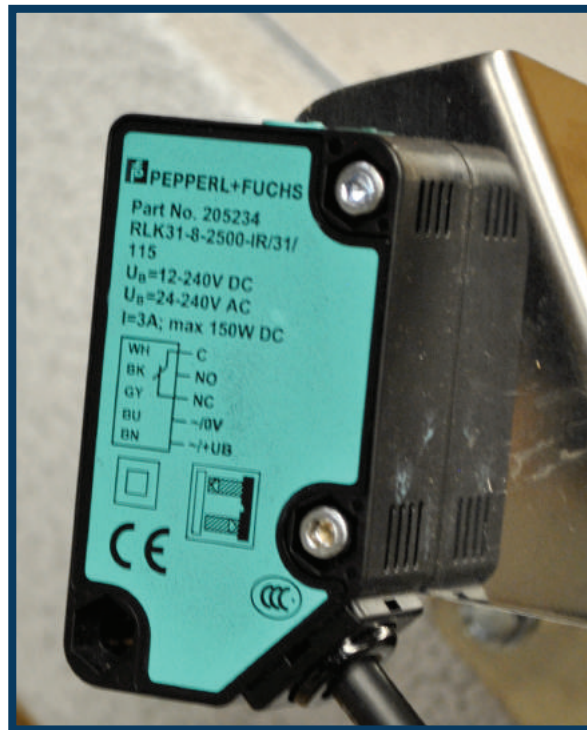
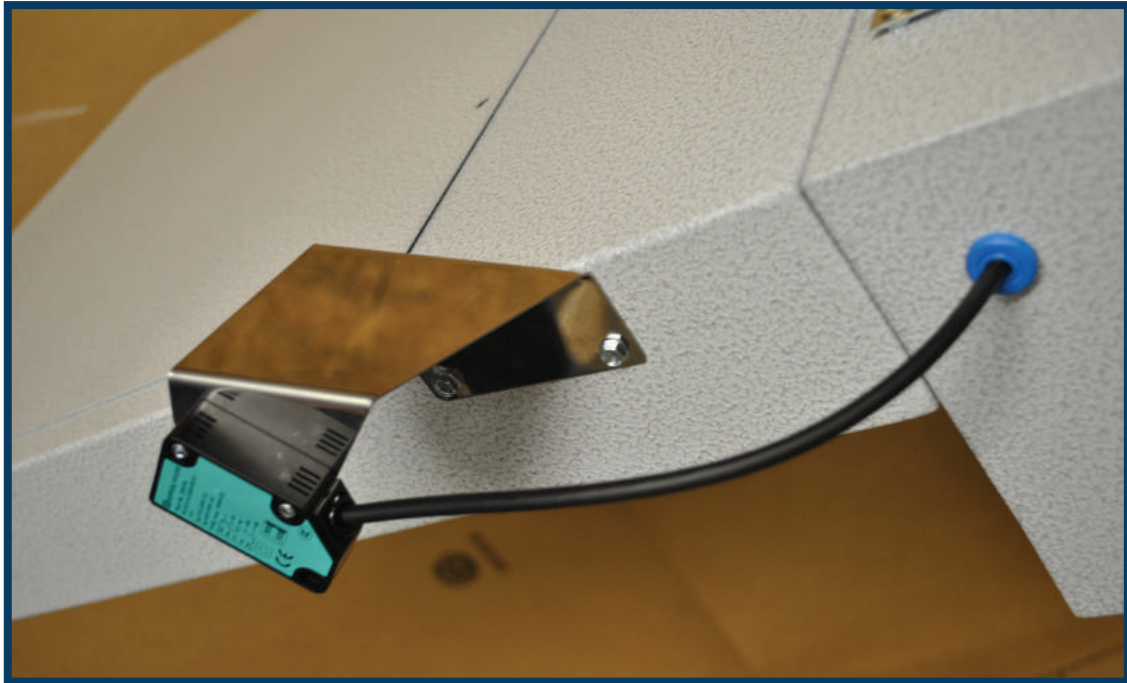
Test Control

Momentary Push to Test. Use this control after turning your UniFlash "ON" to ensure that power and zones are functioning properly.



Section 4: Operation & Controls

UNIFLASH



Pallet Sensor

Pallet sensor sensitivity/range can be adjusted with a small flat blade screwdriver for accurate pallet detection.



Section 4: Operation & Controls

UNI-FLASH

! CAUTION:

**Precision
Adjustment Required**



**! Read Carefully
Avoid Bulb Damage**

Locking Bolt

The UniFlash is equipped with a gas spring for easy height adjustment. To raise or lower your UniFlash unit loosen the locking bolt on the stand. Press down firmly **on the top of the unit at the seam between the light box and control box** to lower. When desired height is reached tighten locking bolt with the supplied allen wrench.



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**Allen Wrench Storage
For Adjusting Bolt**

Section 5: Parts List



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VersiFlash	TC1000	UniFlash	VersiFlash TC	PART NUMBER	DISCRIPTION
X			X	VF1	SCR BOARD
X				VF2-A	10 AMP INTERFACE RELAY
X	X	X	X	VF2-B	50 AMP SOLID STATE RELAY (9 BULB UNIT)
X	X	X	X	VF2-C	90 AMP SOLID STATE RELAY (12 BULB UNIT)
	X		X	VF2-D	INPUT MODULE CONTINENTAL
				VF25	FAN WIRE CONVERSION KIT
X	X		X	VF3-A	3.15 INCH FAN 115 V
X	X		X	VF3-B	3.15 INCH FAN 230 V
X	X		X	VF4-A	4.5 INCH FAN 115 V
X	X	X	X	VF4-B	4.5 INCH FAN 230 V
X		X	X	VF5-A	AUTONICS TIMER
X		X	X	VF5-B	TIMER SOCKET
X				VF6-A	480/240 TO 115 V TRANSFORMER .400 MAH
X			X	VF6-B	230 - 24 AC TRANSFORMER
	X	X	X	VF6-C	AC to 24V DC POWER SUPPLY
X				VF6-D	480-24 AC TRANSFORMER
	X			VF6-E	480-115 V TRANSFORMER 750 MAH
X	X		X	VF7-A	3.15 INCH FAN GRILL
X	X	X	X	VF7-B	4.5 INCH FAN GRILL
X	X	X	X	VF8-A	BULB CLIP COMPLETE
X				VF9-A	115 VOLT OMRON SENSOR
		X	X	VF9-B	24 VOLT SENSOR PEPPREL & FUCHS
X			X	VF10-A	STAND BY TEMP POT
X			X	VF10-B	HIGH TEMP POT
X	X	X	X	VF11-A	ZONE CONTROL ROCKER SWITCH
X	X	X	X	VF11-B	ZONE LED
X	X		X	VF12-A	FINDER TIME LAG TIMER
X				VF13-A	OMRON CLEAR COIL RELAY
	X		X	VF14-A	OMRON SOCKET RELAY

	X	X	X	VF15-A	POWER INDICATOR LED (TOP CONTROL BOX) 24V
X	X	X	X	VF16-A	TEST BUTTON
X				VF17-A	Hirschman [6] Pin Panel Mount Div
X				VF17-O	INTERFACE CABLE ORIGINAL VERSI FLASH
	X		X	VF17-TC	VERSI FLASH TC / TC 1000 INTERFACE CABLE
				VF17-XTC	INTERFACE CABLE X - TYPE ONLY
				VF17-EVO	INTERFACE CABLE EVO ONLY
X	X	X	X	VF18-A	50 AMP ON/OFF BREAKER 3 PHASE
X	X		X	VF18-B	70 AMP ON/OFF BREAKER SINGLE PHASE
X	X	X	X	VF19-A	19" MEDIUM WAVE LAMP
X	X		X	VF19-B	20" MEDIUM WAVE LAMP
X	X	X	X	VF19-C	21" MEDIUM WAVE LAMP
X	X	X	X	VF19-D	18" MEDIUM WAVE LAMP
		X		VF19-E	24" Bulb
	X		X	VF20	TEMPERATURE CONTROLLER (Novis)
	X		X	VF21	TEMPERATURE SENSOR (Raytek)
	X		X	VF22	ALARM RELAY BOARD
X	X	X	X	VF24	CERAMIC BLOCK
	X		X	VF25-A	Fan Wire Conversion Kit
	X		X	VF25-B	Fan Plug [male] with Wire
X	X		X	VF26-A	2.5 AMP Fuse
X				VF26-B	1 AMP Fuse
X	X		X	VF27	Aluminum Feet
				VF28-A	1/4" HIGH TEMP TUBING per ft.
				VF28-B	1/8" HIGH TEMP TUBING per ft.
				VF29-A	10ga. HIGH TEMP WIRE per ft.
				VF29-B	20ga. HIGH TEMP WIRE per ft.
				VF30	20ga. COLORED CONTROL WIRE per ft.
				VF31	SINGLE PHASE CONVERSION KIT



CAUTION

Always disconnect your UniFlash from the power supply by unplugging the cord, prior to any troubleshooting or maintenance. Failure to do so may result in electrical shock or bodily injury.

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Flash Settings

Date: _____
Order Number: _____
Customer Name: _____

	Type	Other	Standby Temperature	Operating Temperature	Zones Used	Dwell Time
Flash Cure #1	UniFlash					
Flash Cure #2	UniFlash					
Flash Cure #3	UniFlash					
Flash Cure #4	UniFlash					

Notes:



UPS 1ZA82T890313115618.



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Notes:

