

SECURITY FOGGING SYSTEMS



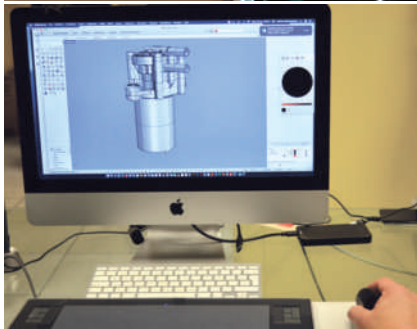
Professional line

Speed
and density
that make
the difference

FAST
PRO PLUS
Line



NOREL



UR FOG Group



NOREL MESHWAVE

Is a company that develops and manufactures electronic systems for different fields of application.

Since the company's foundation, in 2004, we have designed and produced boards for cars, trucks, boats, trains, airplanes, helicopters and industrial machines for both civil and military users. Our expertise range from system engineering to hardware/firmware design, EMC compliance and certification, boards manufacturing and consulting services.



TECHNOWAVE INTERNATIONAL

Is the business unit following international sales of UR FOG group.

Based in Minsk, Republic of Belarus.

It is specialized in sales and support of security fogging systems and wireless mesh technology.

Technowave actually follows distributors, OEM and large system integrators in more than 50 countries.

Yuliya Koleichick, CEO of Technowave International Ltd, has been supporting all UR FOG international sales from the start of UR FOG group, following all stages of product developments to the establishment of the international sales channels.



STEMAR

Is a precision mechanical workshop.

That was born in 2011 from the experience of the partners Luca and Paolo in the aeronautical field. The company is able to deal with complete mechanical processes such as milling, turning, grinding, welding, assembling of prototypes and series, construction of equipment and processing on any type of material. Stemar has a technical office on CAD CAM system programming and a department dedicated to products testing.



WE DESIGN, PATENT AND PRODUCE FOGGING SYSTEM TECHNOLOGY

UR Fog is the most innovative and powerful anti-intrusion system on the market.

A team of professionals and engineers with over 20 years of experience in product development and distribution management all over the world.

We are market leader in the security sector

Thanks to the high quality and superior technology of our products, guaranteed by the company's in-house technical expertise and patents protecting technological innovations.

UR Fog's philosophy is simple:

the best performing products at the best price with a focus on quality control.

UR Fog's exceptional fog emission speed performance is certainly the easiest way to compare with other existing systems.

Given the real and effective potential of this innovative security system, a rapidly expanding and growing market in business and demand has opened up, with sales volume expected to increase more than 20 times over the next 5 years.



Our quality and performance are certified worldwide

UR FOG machines have been developed, thanks to the internal R&D team and laboratories, with innovative solutions for security and fully respecting international approvals and regulations

CERTIFICATIONS

EMC, FCC, CE
EN 50131-8:2019

The fog fluid is certified by EUROFINS, one of the largest multinational companies for chemical, cosmetic, medicine certification, as not toxic for humans and animals and the fluid content is not in contrast with any Islamic country regulation. Products have been already sold in over 80 worldwide countries.



UR Fog: the first manufacturer of Fogging Systems who has obtained the Certification of Compliance to EN 50131-8:2019

FAST 03 1C PRO PLUS



Powerful and fast fogging system, can cover up to **600 m³ in 15 seconds** (200 m³ visibility less than 1 m).



03 1C

GENERAL SPECIFICATIONS

Weight of the fogging machine	about 13 KG
Weight with packaging about	14 KG
Units on one pallet 100x120	24
Dimension of the machine	21,5 X27,0 XH43,5
Dimension of the packaging	25,0 X37,0 XH47,0
Colors	white
Working time without mains power	about 2 hours
Heating time from cold	about 50 minutes
Vertical mounting	yes
Horizontal mounting	yes
Usb port for monitoring	yes
Nozzle tamper	yes
Serial interface RS232 with UR FOG Standard protocol	yes
Alarm kit	optional

STANDARD

Complies with european CE	yes
Fog fluid is certified	yes
Meets european standard	yes



It is the ideal fogging system to protect small volume spaces, shops, homes and generally all professional applications where top security technology is needed.
It is prearranged to an easy wall installation and it has a lower compartment to equip boards or accessories if needed.

FOGGING SYSTEM

New heating system "Layer"	yes
Coverage in a single shot (visibility more than 1,5 m)	up to 600 m ³
Coverage in a single shot (visibility less than 1 m)	up to 200 m ³
Max seconds of fog emission	15 sec
Max fog emitted with full fog tank	1200 m ³
Number of cylinders	1
Fog tank capacity	1 x 600 ml
Shooting specification	programmable in seconds
Cylinder model	vertical / horizontal
Cylinder included	1

ELECTRICAL SPECIFICATIONS

Mains power	230 V or 120 V
Average power consumption	37 W
Back up battery (not included)	yes
Optional demo/antirobbery kit	yes
Inputs wired arming and shooting	yes
Outputs wired	yes
Standard communication protocol	yes

FAST 03 2C PRO PLUS



Powerful and fast fogging system, can cover up to **600 m³ in 15 seconds** (200 m³ visibility less than 1 m).



03 2C

GENERAL SPECIFICATIONS

Weight of the fogging machine	about 14 KG
Weight with packaging about	15 KG
Units on one pallet 100×120	24
Dimension of the machine	21,5 X27,0 XH43,5
Dimension of the packaging	25,0 X37,0 XH47,0
Colors	white
Working time without mains power	about 2 hours
Heating time from cold	about 50 minutes
Vertical mounting	yes
Horizontal mounting	yes
Usb port for monitoring	yes
Nozzle tamper	yes
Serial interface RS232 with UR FOG Standard protocol	yes
Alarm kit	optional

STANDARD

Complies with european CE	yes
Fog fluid is certified	yes
Meets european standard	yes



FOGGING SYSTEM

New heating system "Layer"	yes
Coverage in a single shot (visibility more than 1,5 m)	up to 600 m³
Coverage in a single shot (visibility less than 1 m)	up to 200 m³
Max seconds of fog emission	15 sec
Max fog emitted with full fog tank	2400 m³
Number of cylinders	2
Fog tank capacity	2 x 600 ml
Shooting specification	programmable in seconds
Cylinder model	vertical / horizontal
Cylinder included	2
Double fog tank patent	yes

ELECTRICAL SPECIFICATIONS

Mains power	230 V or 120 V
Average power consumption	37 W
Back up battery (not included)	yes
Optional demo/antirobbery kit	yes
Inputs wired arming and shooting	yes
Outputs wired	yes
Standard communication protocol	yes

It is the ideal fogging system to protect small volume spaces, shops, homes and generally all professional applications where top security technology is needed. It is prearranged to an easy wall installation and it has a lower compartment to equip boards or accessories if needed.

FAST 02 2C PRO PLUS



Powerful and fast fogging system, can cover up to **1200 m³ in 25 seconds** (400 m³ visibility less than 1 m).



02 2C

GENERAL SPECIFICATIONS

Weight of the fogging machine	about 18 KG
Weight with packaging about	20 KG
Units on one pallet 100×120	24
Dimension of the machine	21,5 X27,0 XH43,5
Dimension of the packaging	25,0 X37,0 XH47,0
Colors	white
Working time without mains power	about 2 hours
Heating time from cold	about 90 minutes
Vertical mounting	yes
Horizontal mounting	yes
Usb port for monitoring	yes
Nozzle tamper	yes
Serial interface RS232 with UR FOG Standard protocol	yes
Alarm kit	optional

STANDARD

Complies with european CE	yes
Fog fluid is certified	yes
Meets european standard	yes



FOGGING SYSTEM

New heating system "Layer"	yes
Coverage in a single shot (visibility more than 1,5 m)	up to 1200 m ³
Coverage in a single shot (visibility less than 1 m)	up to 400 m ³
Max seconds of fog emission	25 sec
Max fog emitted with full fog tank	2400 m ³
Number of cylinders	2
Fog tank capacity	2 x 600 ml
Shooting specification	programmable in seconds
Cylinder model	vertical / horizontal
Cylinder included	2
Double fog tank patent	yes

ELECTRICAL SPECIFICATIONS

Mains power	230 V or 120 V
Average power consumption	42 W
Back up battery (not included)	yes
Optional demo/antirobbery kit	yes
Inputs wired arming and shooting	yes
Outputs wired	yes
Standard communication protocol	yes

It is the ideal fogging system to protect medium areas like large shops, homes, and generally all professional applications where top security technology is needed. It is very fast and competitive.
It is prearranged to an easy wall installation and it has a lower compartment to equip boards or accessories if needed.

FAST 01 2C PRO PLUS



Powerful and fast fogging system, can cover up to **3600 m³ in 70 seconds** (1200 m³ visibility less than 1 m).



01 2C

GENERAL SPECIFICATIONS

Weight of the fogging machine	about 29 KG
Weight with packaging about	31 KG
Units on one pallet 100×120	12
Dimension of the machine	28,5 x36,0 xh43,5
Dimension of the packaging	39,0 X51,0 XH51,0
Colors	white
Working time without mains power	about 2,5 hours
Heating time from cold	about 2,5 hours
Vertical mounting	yes
Horizontal mounting	no
Usb port for monitoring	yes
Nozzle tamper	yes
Serial interface RS232 with UR FOG Standard protocol	yes
Alarm kit	optional

STANDARD

Complies with european CE	yes
Fog fluid is certified	yes
Meets european standard	yes



It is the most powerful machine in the market, ideal to protect large areas like big shops, warehouses, superstores or even to protect targets in open space. It is prearranged to an easy wall installation and it has a side compartment to equip boards or accessories if needed.

FOGGING SYSTEM

New heating system "Layer"	yes
Coverage in a single shot (visibility more than 1,5 m)	up to 3600 m ³
Coverage in a single shot (visibility less than 1 m)	up to 1200 m ³
Max seconds of fog emission	70 sec
Max fog emitted with full fog tank	2400 m ³
Number of cylinders	2
Fog tank capacity	2 x 600 ml
Shooting specification	programmable in seconds
Cylinder model	vertical
Cylinder included	2
Double fog tank patent	yes

ELECTRICAL SPECIFICATIONS

Mains power	230 V or 120 V
Average power consumption	60 W
Back up battery (not included)	yes
Optional demo/antirobbery kit	yes
Inputs wired arming and shooting	yes
Outputs wired	yes
Standard communication protocol	yes

Features

FAST PRO PLUS Line

Professional line

Powerful and speed fogging systems with **cylinders technology**. Valuable for professional use and where a high security technology efficiency is required.

Advanced plus board with 3 inputs, 4 outputs and a rechargeable 2 Ah battery (*not included*).

Stronger Cabinet Pro.

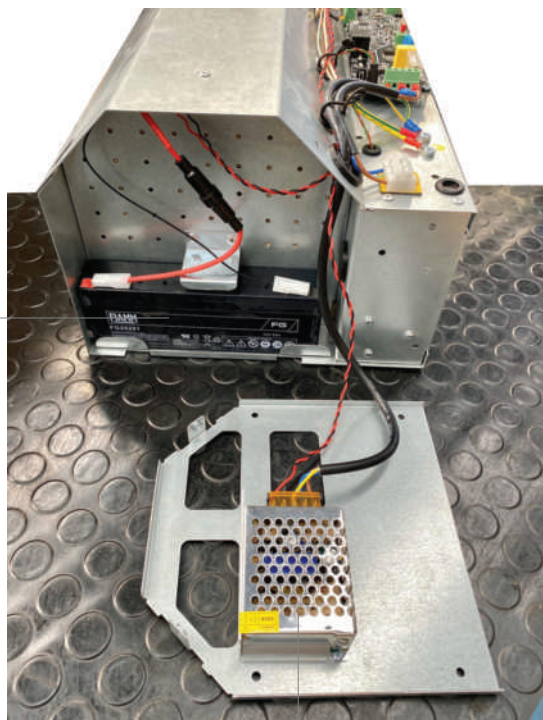
UR Fog fogging systems are innovative in their technology and performances, in order to guarantee the most effective protection against thefts and they have different patents.

UR Fog fogging systems are certified by European regulation.

Fog fluid is assessed as not dangerous for people and animals and does not leave residuals.

Optional 2Ah battery

to power the electronic board and motors in case of mains power failure



Power supply
for the electronic board and motors



Double cylinder patented technology

One of our patent and the best way to emit fog, thanks to the automatic switch between the first and the second cylinder (when the first one is empty). They are disposable and easy to replace.



Vertical recharge
Liquid quantity 600 ml
Horizontal recharge
Liquid quantity 600 ml



Exclusive patented system that allows to detect automatically if the nozzle has been obstructed by sending a signal in case of tampering.



Thanks to the massive insulation UR FOG fogging systems have a very low power consumption and can shoot for a long time in absence of mains power; temperature remains stable over time.

Long lasting operation time without mains

The innovative thermal insulation of the heater allows UR Fog systems to work for a long period of time without mains power: from 2 h up to 3 h!



A serial bus allows to add additional boards to each UR Fog system for an easier interface with all kinds of alarm centrals.

**Single cylinder
version
600 ml**



Adjustable nozzle
with anti-tampering function

Pro Plus board



Pro Plus Cabinet



**Double cylinders version
600 ml**



Electronic board **FAST PRO PLUS Line**

INPUTS

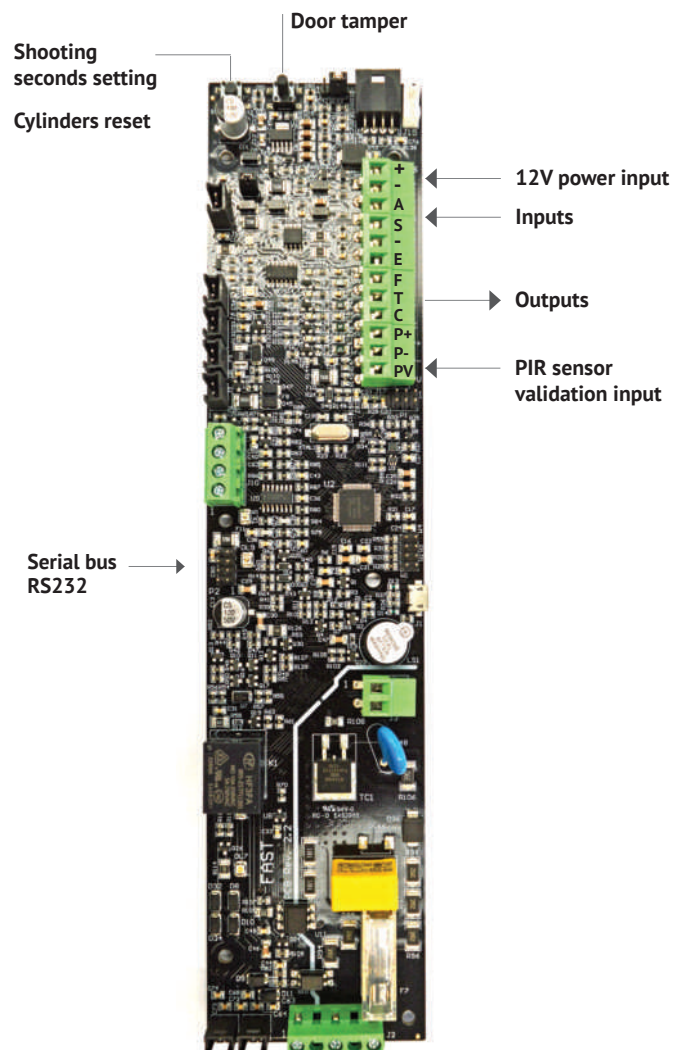
+	+12V power input
-	GND power input
ARM	Arming input
SHOOT	Shooting input
-	GND

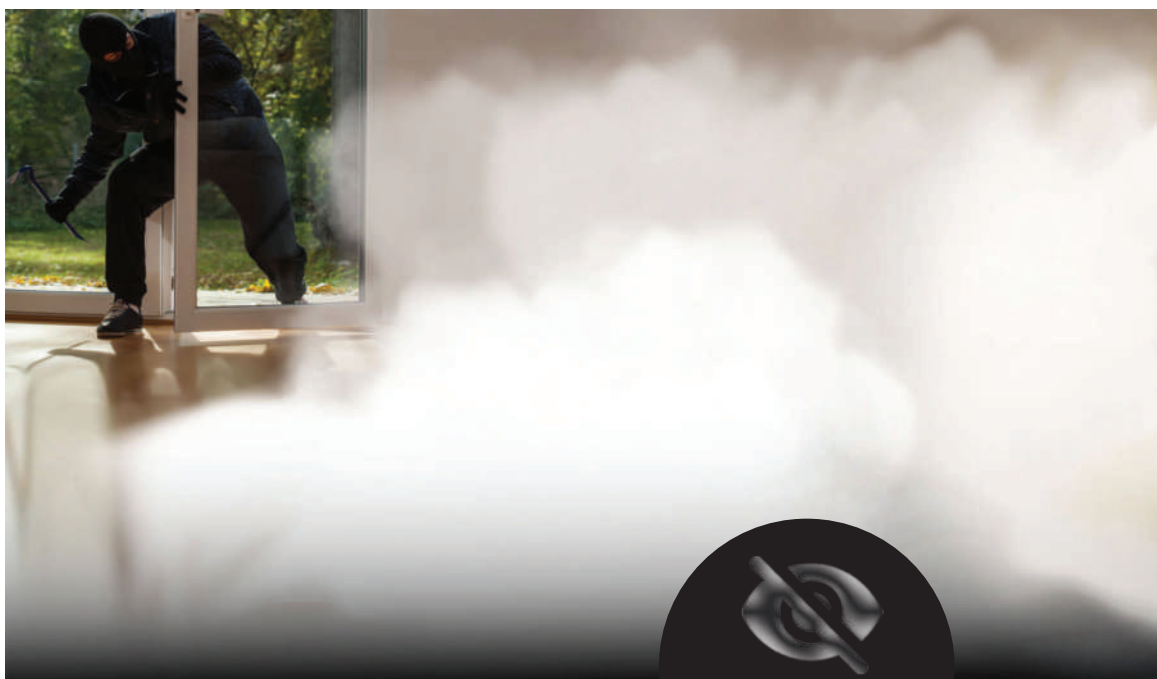
OUTPUTS

EMPTY	Empty cylinder output
FAULT	Fault output
TAMPER	Tamper output
CONFIRM	Shot confirmation output

PIR SENSOR VALIDATION INPUT

P+	+12V for PIR power supply
P-	GND for PIR power supply / COM. PIR
PV	N.C. PIR





	FAST 03 1C PRO PLUS	FAST 03 2C PRO PLUS	FAST 02 2C PRO PLUS	FAST 01 2C PRO PLUS
Max fog emitted in single shot	200 m ³	200 m ³	400 m ³	1200 m ³
Maximum shooting time	15 sec.	15 sec.	25 sec.	70 sec.
Max fog emitted with full cylinders	1200 m ³	2400 m ³	2400 m ³	2400 m ³
Cylinders	1 cylinder	2 cylinders	2 cylinders	2 cylinders
Fog tank capacity	600 ml	600 ml	600 ml	600 ml
Working time without mains power	About 2 hours	About 2 hours	About 2 hours	About 2,5 hours
Heating time	About 50 min.	About 50 min.	About 90 min.	About 2,5 hours
Vertical mounting	Yes	Yes	Yes	Yes
Horizontal mounting	Yes	Yes	Yes	No
Serial bus RS232	Yes	Yes	Yes	Yes
Power consumption	37 W	37 W	42 W	60 W
Back up battery	2 Ah	2 Ah	2 Ah	2 Ah
Electronic board	Plus	Plus	Plus	Plus
Cabinet	Pro	Pro	Pro	Pro
Non-dangerous fog certification	Yes	Yes	Yes	Yes
Standard European certifications	Yes	Yes	Yes	Yes
Heater	300 W	300 W	300 W	600 W
Shooting time programmable in seconds	Yes	Yes	Yes	Yes
Nozzle tamper	Yes	Yes	Yes	Yes

Accessories and refills

FAST PRO PLUS Line

CODE	ACCESSORIES AND REFILLS	FAST 03 1C PRO PLUS	FAST 03 2C PRO PLUS	FAST 02 2C PRO PLUS	FAST 01 2C PRO PLUS
F1M06BOM	Cylinder 600 ml - vertical	■	■	■	■
F1M06BOMORZ	Cylinder 600 ml - horizontal	■	■	■	
F01STH	Wall metal bracket Fast 01				■
F23STHPRO	Wall metal bracket Fast Pro Plus	■	■	■	
F23PRUG7	Nozzle extension	■	■	■	■
F1M03UG3	3 holes nozzle	■	■	■	■
F23KITD	Demo Kit	■	■	■	
F23KITA	Antirobbery cable	■	■	■	■
URRE	Relay board	■	■	■	■
F123KEY	Arming key	■	■	■	■
URTR	Keyfob + receiver	■	■	■	■
URT	Additional keyfob	■	■	■	■
URRS232	Transceiver rs232 5/12 V	■	■	■	■
URCL	Cloud board LAN	■	■	■	■
URCLWF	Active Cloud Lan / WIFI board	■	■	■	■
URCLWFA	Wifi antenna module	■	■	■	■
URCLWFPP	Active Cloud Mounting kit Fast 03-02 (flat cable Pro Plus + 3 x 20 mm spacers)	■	■	■	
URCLWF014	Active Cloud Mounting kit Fast 01 with external box (external plastic box + external flat cable + 1x24 mm rubber + 2x16 mm rubbers)				■



Active Cloud LAN / Wifi board

The WIFI LAN board allows wired or wireless Lan connection. Through the extremely secure Cloud service, provided for free, it allows, in addition to system monitoring, to remotely arm, shoot and set shooting time of the fogging system.

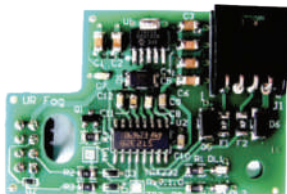


Keyfob
+ receiver

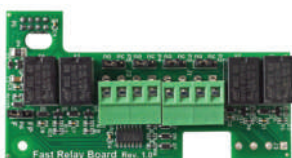


Arming key

Demo Kit



Transceiver rs232 5/12 V



Cloud board LAN

Cloud LAN board to monitor fogging machines and diagnostic.
Great advantage for all installers that can check from remote if any maintenance
is needed.

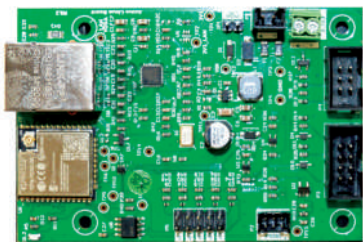
Active Cloud

FAST
PRO PLUS
Line



A SINGLE CONTROL PANEL TO MANAGE
ALL YOUR FOGGING SYSTEMS
FROM SMARTPHONES, PC, TABLETS





ACTIVE CLOUD LAN / WIFI BOARD

(URCLWF)

The WIFI LAN board allows wired or wireless Lan connection. Through the extremely secure Cloud service, provided for free, it allows, in addition to the systems monitoring, to remotely arm, shoot and set shooting time of the fogging system.



Developer APIs available

Ability to develop **customized connectivity solutions** for integrating **UR Fog systems** into pre-existing intranets (*banks, regulators, etc.*)

SECURE SSL/TLS encrypted communication

REMOTE DEVICE ASSISTANCE analytical control of all features and real-time system diagnostics

WIFI & WIRED LAN on the same card



Control panel for the single fogging systems or general control of all the fogging systems installed

ARMING AND SHOOTING SIGNALS TO ACTIVATE ONE OR MORE FOGGING SYSTEMS AT THE SAME TIME



Details

Installation address, reference person, phone and system insights

Alarm

E-MAIL ALERTS

Insertion of up to 3 addresses and selection of warning options to associate

Shooting

Setting shooting time in seconds



Log Events

System Registration
500 Events/Commands



REMOTELY ARMAMENT AND SHOOTING



SHOOTING VERIFICATION TEST



FLUID CONTROL

AND BAG RESET
Signaling of systems where the fluid level is exhausted or in reserve

MULTI-LEVEL SYSTEM

It is possible to authorize users individually with different permissions for the management and/or control of the systems

Monitoring | Maintenance | Complete control



Total number of managed systems



N. systems connected to the Cloud



N. ready-to-shoot systems



N. armed systems



N. tampered systems



N. systems with low fluid quantities



N. battery-powered systems in the absence of AC network



N. systems with error reporting



N. systems that have shot in the last 24 hours

**FAST
PRO PLUS**
Line

SECURITY FOGGING SYSTEMS

UR Fog:

the first manufacturer
of Fogging Systems
who has obtained the Certification
of Compliance to **EN 50131-8:2019**



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