

smartcom360

USER MANUAL

PC SOFTWARE SmartCom360

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USER MANUAL

REF: SmartCom360 PC-MAN-ING			
Version	Date	Description	
01	05/03/2025	Initial Version	

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SMARTCOM360 PC

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2.1 Requirements

To use the SMARTCOM360 PC software, a computer with Windows 7, Windows 10 or Windows 11 is required.

2.2 Access

In order to use the software on the computer, the following steps must be taken:

- 1) Connect the USB provided by MSM to the PC.
- 2) Go to the "This Device" menu and open the connected "USB Drive".





3) Open the folder "SOFTWARE PC".

6/2022 08:54	File folder	
6/2022 08:54	File folder	
	6/2022 08:54 6/2022 08:54	6/2022 08:54 File folder 6/2022 08:54 File folder

Figure 3 – "SMARTCOM360" folder

4) Open the folder "SmartCOM 360 v0.9.X.XX".

	Figure 4 – "SOFTWARE	PC" folder	
	02/06/2022 09:02	File folder	
Name	Date modified	Туре	Size



IMPORTANT

The file name shown in Figure 4 as "_SmartCOM 360 v0.7.2" will vary depending on the latest PC software version included in the USB.

Na	me	Date modified	Туре	Size
	HELP	02/06/2022 09:02	File folder	
	Ing	02/06/2022 09:02	File folder	
	TablasDatos	02/06/2022 09:02	File folder	
	TablasDatos_MF07	02/06/2022 09:02	File folder	
10	TablasRitmos	02/06/2022 09:02	File folder	
	TablasRitmos_MF07	02/06/2022 09:02	File folder	
0	EnvDTE.dll	01/06/2022 16:54	Application exten	256 KB
3	FontAwesome,Sharp.dll	01/06/2022 16:54	Application exten	439 KB
3	Microsoft.VisualBasic.PowerPacks.dll	01/06/2022 16:54	Application exten	344 KB
0	smartcom360	01/06/2022 16:54	Application	2,951 KB
	smartcom360.exe.config	01/06/2022 16:54	CONFIG File	2 KB
0	smartcomMF07	01/06/2022 16:54	Application	3,397 KB
8	stdole.dll	01/06/2022 16:54	Application exten	32 KB
6	Syncfusion.Core.WinForms.dll	01/06/2022 16:54	Application exten	212 KB
0	Syncfusion.DataSource.WinForms.dll	01/06/2022 16:54	Application exten	135 KB

Figure 5 – SmartCOM 360 folder

5) Run the "*smartcom360*" software.

The program is prepared for the flasher MF20.





Figure 6 – SMARTCOM360 PC Start Screen





The SMARTCOM360 PC software is designed for Windows PCs and communicates via the USB - USB C programming cable with MF20 flasher.

In order to establish communication between the PC and the flashing device, it is not necessary to connect a power supply to the beacon.

Once connected, the application will start, as explained in the previous point, and the SMARTCOM360 PC start screen will appear. In this screen, select the beacon model with which you wish to communicate:

Table 1 – Model choice

MCL360, MBL, MRL	Model Recognition	Language
MRL ~ Smartcom		ENG ~

This will take you to the main "INFORMATION" screen.

To change the language of the application, click on the drop-down menu in the top left-hand corner.



IMPORTANT

The **default language** of the application is **English**.

This manual can be downloaded directly throught the app when the "interrogation" icon (HELP) is clicked.



	Ć	<u>smartc</u>	DM360	E E ? - c
MSM	LANTERN INFORMATIO	N		
₽ ₽	Name Colour Range / Candelas			R AIS GSM SAT UHF
INFORMATION PHOTOCELL	Rhythm	V bat :	Synchronization Monitoring	- -
COMMUNICATION GPS	Operation mode Da	y / Night	Battery alarm Off position alarm LED off alarm	
RHYTHMS / POWER	Lantern S/N		Temperature alarm Photocell alarm LED control alarm	2 2 2
COM3 ✓ RADIO			Alarm driver photo GPS Alarm Solar panel alarm	- - - Beacon model
			Maintenance date	-
	CURRENT STATUS SUMMARY			
	Photocell: -	Body: -	Colour: -	
Variation 0.7.0	Bluetooth: -	IR receiver: -	Vbat: -	Solar charge: -

As can be seen in the previous image, no information of the lantern appears. This is because it has not been read. To do so, click on the following icon:





When the reading process is finished, the lantern data will be displayed.

ENG 🗸	smartco	m360 🖻 🖻 🔋 – 🗉 ×
	LANTERN INFORMATION Name MRL-M Colour White Range / Candelas 23 MN / 300000 Cd Rhythm 149 - ISOSS (Version 1) Divergence 2°	Impact sensor NO Synchronization Activated Monitoring Deactivated
COMMUNICATION GPS RHYTHMS / POWER TEST COM6 ~	DC input 14,10 V Operation mode 24h ON Type MRL-M Lantern S/N MRL-D Lantern P/N 123456789	Alarms: NO
	V. hw: 99.99-A V. fw: 1.9 y / n: 16777215 - 255/255	MRL-M Maintenance date domingo, 31 de diciembre de 2000
Novice 66.117	Photocell: NIGHT Type MRL-M Colour: White GPS: OFF Divergence: 2° Bluetooth: OFF Vbax: 14,10 V	Î. C

Figure 7 – "INFORMATION" screen with lantern data

The bottom box, which will be present on all tabs of the application, displays the most relevant information about the lantern.

3.1 Reprogramming the Beacon

If you wish to reprogram the beacon, you must modify and adjust the desired parameters in the different windows of the application. Once the new configuration has been made, it must be uploaded to the beacon, therefore, click



This will initiate the process of reprogramming the beacon and the new configuration will be saved.



on the icon:

4. Information

As mentioned above, the "*INFORMATION*" tab provides information on the beacon. To do this, you must have previously read this or opened an already saved configuration.

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(⁽))MSM	LANTERN INFORMATION	\neg
INFORMATION PHOTOCELL COMMUNICATION GPS RHYTHMS / POWER TEST COM6 ~ [X]	NameMRLMColourWhiteRange / Candelas23 MN / (20000 Cd)Rhytm149-1505SOci nput1410 VOperation mode24h ONTypeMRLMLantern S/NMRLOLantern P/N123456789	
	MRL-M V. hw: 99.99-A V. fw: 1.9 y / n: 16777215 - 255/255 Maintenance date domingo, 31 de diciembre de 2000	
	CURRENT STATUS SUMMARY	
Version 0.9.117	Photocell: NIGHT Type MRL-M Colour: White GPS: OFF Divergence: 2° Bluetooth: OFF Vbat: 14,10 V	2

Figure 8 – "INFORMATION" screen

The available data to be displayed are:

- Name
- Colour
- Range/Candelas
- Rhythm
- Divergence
- DC input
- Operation mode
- Type
- Lantern S/N
- Lantern P/N

The name of the lantern can be modified by clicking on the name field.

You can also see the status of the Alarms, as well as the status of Synchronisation and Monitoring.



IMPORTANT

Text in red marks that it has been modified with respect to the uploaded lantern values.



The switching on/off of the lantern is controlled by the photocell integrated in the lantern. In order to access its menu, press the "*PHOTOCELL*" option:

ENG 🗸	smart com360 🖻 🖻 🔋 -	σ×
() MSM	PHOTOCELL SETTINGS	
RHYTHMS / POWER	Operation mode Day / Night OFF period in sleep mode.	6
SETTING COM11 ~ 👔 🦏	Standby mode Start hibernation 1 de enero Activate End hibernation 1 de enero	
	CURRENT STATUS SUMMARY	
Version 0.9.123	Photocell: NIGHT Type MRL-M Colour: Red GPS: LOCATOR Divergence: 2° Bluetooth: OFF Vbat: USB	C

Figure 9 – "PHOTOCELL" screen

The following information of interest can be found on this screen:

- Operation mode
 - Day/Night or 24h ON
 - Standby mode
- Recommended values for the photocell adjustment
 - Light Level Night-Dusk (ON) \rightarrow 250 lux
 - Light Level Day-Dawn (OFF) \rightarrow 320 lux



The "*Photocell Delay*" box is the time, in seconds, that the lantern will wait after reading the photocell measurement before turning on or off.

• Hibernation

If you wish to program the lantern for a specific period in low power, check this box and then indicate in which month the lantern will start and end this hibernation period.

• Clock Control Settings

With this option the change of state DAY / NIGHT will be done using the hours of Ortho and Sunset. This information is obtained from the GPS.

The offset is the time in minutes that will advance the change of state with respect to the hours of Ortho and Sunset.

The time of change from day to night and vice versa can be set manually in the option "Manual Set". It can be disabled so that the state transitions Day/Night will be done only by the photocell.



IMPORTANT

The lux value of "Light Level Night-Dusk " (ON) shall be lower than "Light Level Day-Dawn" (OFF) in order to avoid oscillations in the switching on and off the beacon.



6. Communications

By accessing the "COMMUNICATION" window, you can configure the communication options available to the beacon.

ENG 🗸	smart com360	ð ti ? - o ×
(MSM	COMMUNICATIONS IR	
"	BLUETOOTH COMMUNICATIONS	
INFORMATION PHOTOCELL COMMUNICATION	Bluetooth access password 123 Blueto	
GPS	EXT. INPUTS EXT. OUTPUTS	
RHYTHMS / POWER TEST COM6 ~	EXT. OUTPUT 1 EXT. OUTPUT 2 Name OUT-1 Function NIGHT STATUS v Normal state N0. Time (s) 0.0 Time (s) 0.0	
	CURRENT STATUS SUMMARY	
Version 0.9.117	Photocell: NIGHT Type MRL-M Colour: White GPS: OFF Divergence: 2° Bluetooth: OFF Vbst: 14,10 V	C

Figure 10 – "COMMUNICATIONS" screen

The following information can be found on this screen:

• Remote Control Modules

The flashing circuit has an RS-232 communications port for remote control of the lanterns. This port can be configured to work with IR programmer or none in case it is not used.

• Bluetooth

The Bluetooth is disabled.

• External Inputs

The MF20 flasher has 2 inputs whose function can be configured from a small list. By default, are enabled the On remote (change to Night mode) and the Off remote (change to Day mode).

• External Outputs

The MF20 flasher has 2 outputs whose function can be configured from a small list. By default, are enabled the Night status and the Led Alarm.



• IR programmer password

Password, modifiable by the customer, to configure the beacon with the IR infrared programmer.

COMMUNICATIONS IR Image: Communication of the system of	
Image: Second system Image: Second system	
IR programmer password 123 Infrared wake up (s) 30 €	-
Infrared wake up (s) 30 🗧	
INFORMATION	
PHOTOCELL	
COMMUNICATION	
GPS	
RHYTHMS / POWER	
TEST	
COM6 ~ (M)	
CURRENT STATUS SUMMARY	
GPS: OFF Divergence: 2°	1
Bluetooth: OFF Vbat: 14,10 V	

Figure 11 – "IR" screen



7. GPS

In the "GPS" window it is possible to configure parameters related to the synchronisation and positioning of the beacon.

The GPS system is a satellite system which is used, on the one hand, to obtain the coordinates of the beacon and, on the other hand, to have an accurate time base to allow, for example, the synchronisation of two different beacons.

ENG 🗸	smart com360 🖻 🖻 🔋 – 🗉 ×	
(⁽))MSM	GPS FUNCTIONS Activate monitoring Synchronism IN GPS Synchronism IN GPS Synchronism OUT Wire Edge Rising edge	
<u>È</u> É	SETTING Normal state N.O. UTC time zone (UTC +01:00) Synchronism offset 0.0 ÷ Pulse time 100 ÷ (ms)	
INFORMATION PHOTOCELL COMMUNICATION GPS	Summer time zone Z Summer start month 3 End of summer month 10 Long 0° 0,0000 E	
RHYTHMS / POWER TEST SETTING COM14 ~ *	INFORMATION UTC Date / Time 01/01/2020 00:03:11 Local Date / Time 01/01/2020 01:03:11 Satellites in use / detected 0 / GPS accuracy 9,9 1/2 1/2 Sunrise / Sunset 00:00 / 00:00 It is currently summer time Auto position	
Version 0.9.125	CURRENT STATUS SUMMARY Photocell: NIGHT Type MRL-D Colour: White GPS: LOCATOR Divergence: 2° Bluetooth: OFF Vbat: USB	

Figure 12 – "GPS" screen

The following information can be found on this screen:

7.1 GPS functions

• Synchronisme IN

If it selected GPS, the beacon clock will be synchronised with the information received via GPS, which is always the most accurate and is common to all receiving devices.

• Synchronism offset

In case you want to have a delay between several beacons, if they operate synchronously, a value between 0 and 25.5 seconds can be included in this box.

7.2 Settings

• UTC time zone



This box defines the time zone in which the beacon is located (for example UTC+1 in mainland Spain).

• Summer time zone

If there is a summertime change in the area where the beacon is located, this box shall be ticked and then the month in which it starts and ends shall be indicated:

- <u>Summer start month</u>: For example, in Spain is March (nº 3).
- <u>End of summer month</u>: For example, in Spain is October (nº 10).

7.3 Monitoring

In case of Activate Monitoring is ticked, MONITORING window will be selectable.

IMPORTANT

Monitoring window should only be activated when the beacon is being placed in a buoy.

• Auto position

Click auto position to set the origin of coordinates for the monitoring. Then select the maximum swing radius [m] allowed.





8.1 Rhythms

Accessing the "*RHYTHMS/POWER*" window, 2 tabs will appear. In the "*FLASH RHYTHMS*" tab, the user can modify the nominal range (nautical miles), the effective intensity (Candelas) and the desired rhythm

ENG 🗸				SM	ar	tc	0	m	36	•						2) (*] [D	- 1	5
(MSM	FLASH RHYTH	MS		POWER																	_
· · · · · · ·	Range (MN) 23	IME DAYTIM	E .														C	olour V	/hite	Î	
	Effective I (Cd) 300000	300000	•															Diverger	nce	20	
Ē Ē	Bhythm 149	Confirm																			
INFORMATION	No. Name	T Duty (%	6) 1FL	10 2FL	20	3FL	30	4FL	40	5FL	50	6FL	60	7FL	70	8FL	80	9FL	90	10FL	1
INFORMATION	133 FL(4)20S	20 10%	0.50 1	.50 0.50	1.50	0.50	1.50	0.50	13.50												
PHOTOCELL	134 FL(4)20S	20 20%	1.00 2	.00 1.00	2.00	1.00	2.00	1.00	10.00												
COMMUNICATION	135 FL(4)20S	20 30%	1.50 2	.00 1.50	2.00	1.50	2.00	1.50	8.00			-									
GPS	136 FL(5)13S	13 19%	0.50 1	.50 0.50	1.50	0.50	1.50	0.50	1.50	0.50	4.50										
	137 FL(5)20S	20 20%	0.80 1	.20 0.80	1.20	0.80	1.20	0.80	1.20	0.80	11.20										
RHYTHMS / POWER	138 FL(5)20S	20 25%	1.00 1	.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	11.00										
TEST	139 FL(5)20S	20 13%	0.50 1	.50 0.50	1.50	0.50	1.50	0.50	1.50	0.50	11.50										
сом6 ~ ('Д')	140 FL(6)15S	15 20%	0.50 1	.00 0.50	1.00	0.50	1.00	0.50	1.00	0.50	1.00	0.50	7.00								
	141 FL(9)10S	10 23%	0.25 0	.25 0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	5.75		
	142 FL(9)10S	10 18%	0.20 0	.30 0.20	0.30	0.20	0.30	0.20	0.30	0.20	0.30	0.20	0.30	0.20	0.30	0.20	0.30	0.20	5.80		
	143 FL(9)15S	15 30%	0.50 0	.50 0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	6.50		
	144 ISO 0.5	0.5 50%	0.25 0	.25																	
	145 ISO1S	1 50%	0.50 0	.50																	
	146 ISO2S	2 50%	1.00 1	.00				_													
	147 ISO3S	3 50%	1.50 1	.50				_													
	148 ISO4S	4 50%	2.00 2	.00																	
	149 ISO5S	5 50%	2.50 2	.50				_													
	150 ISO6S	6 50%	3.00 3	.00																	
	151 19089	Q 509	1 00 1	00													_				
																	Editi	ng perso	onal rhy	thms	_
	CURRENT STATUS SUMM	ARY																			_
	Photocell: NIGHT	,	Type MRL-M		c	olour:	White	<u>†</u>													(
	GPS: OFF		Divergence:	2°	6																
	Bluetooth: OFF		V bat: 14,10 V	-																	
/ersion 0.9.117																					_

Figure 13 – "FLASH RHYTHMS" screen



For all models it is common that, after modifying the desired parameters and pressing the "*CONFIRM*" option, the application checks whether the values entered are possible, considering the new settings, and, if is not possible, displays a warning pop-up window.

Current configuration: Range 3 MN and Rhythm	n 4.
The current configuration is invalid.	
You have the following options:	
O Manually modify scope, Candelas or rh	iythm.
Automatically adjust to maximum range	ge.

Figure 14 – "RHYTHM VERIFICATION" pop-up window

In addition, in the tab "*FLASH RHYTHMS*", there is the option "*Editing personal rhythms*" which allows you to modify the name of the rhythms, as well as "*Read beacon rhythms*", "*Record rhythms in beacon*", "*Open rhythm file*" and "*Save rhythm file*".

ENG 🗸				SM	ar	t	C	n	13	36	0)			6	¢	5	$\begin{tabular}{c} \end{tabular}$		Ć] >
	FL	ASH RHYTI	HMS			P	OWER					SUM	MAR	Y OF R	ESULT	rs					
·))	Range (N	M) 27														0	Colour	Green		Î	
+ 1 + 1	Effective I (C	(d) 16875	57 🛟	T													Diverg	gence		2°	
<u>F</u>	🚦 🕄 Rhyth	im 256	•	Confirm									Flash	n code	table	Vers	ion 1		~	œ	ø
					E	EDITI	NG P	ERS	ON,	AL R	HY1	ГНМ	S								\times
PHOTOCELL	Inform	nation: Doub	le click o	on a cell to ed	dit it.	_													-	_	
	No.	Name	Т	Duty (%)	Tdest	1FL	10	2FL	20	3FL	30	4FL	40	5FL	50	6FL	60	7FL	70	8FI	
COMMUNICATION	1	USER_1	2.00	50%	1.00	1.00	1.00														
GPS	2	USER_2	3.00	33%	0.00	1.00	2.00														
RHYTHMS / POWER	3	USER_3	4.00	23%	0.00	1.00	3.00														
TEST	4	USER_4	5.00	1797	1.00	1.00	4.00														
SETTING	6	USER_6	2.50	40%	1.00	1.00	1.50														
COM10 × V (w)																					
	R	ead beacon	rhythms	5 F	tecord rh	ythms i	n beaco	n			Oper	n rhythi	m file] [5	Save r	hythm	file		
																Editi	na nei	rsonal	rbyth	ms	-
																Culu	ng per	Sonar	inyun	115	
	CURRENT ST	ATUS SUMA	ARY																		
	Photocell:	NIGHT		т	ype MR	L-M			Cold	our: (Green		1								C
	GPS: LOO	ATOR		D	ivergence	e: 2º						1	B								
Veriles 0.0.105	Bluetooth:	OFF		v	bat: USB																
version 0.9.125																					

Figure 15 – Screen "FLASH RHYTHMS" with the option "EDITING PERSONAL RHYTHMS"



8.2 Power

In the "*POWER*" tab, it is possible to set the detection limits of the current and battery alarms used by the beacon to generate malfunction alarms. It also allows certain actions to be taken when these alarms occur.

ENG 🗸	smart com360	56?	- a ×
ENG COMMERTIN PHOTOCELL COMMUNICATION GPS RHYTHMS/POWER TEST COM6 V WW	FLASH RHYTHMS POWER BATTERY ALARM INFORMATION In the event of a low battery alarm: INFORMATION ILEDS attenuation (%) 50 Disable Bluetooth Disable external communications (AIS, GSM) Disable dPS Disable external communications (AIS, GSM) Disable external communications (AIS, GSM) Eccondary Flash Code n° Power supply Image: Consumption at 100% (A) Nominal DC Input 12:24V Power type SoLAR Battery type GEL		- • ×
Version 0.9.117	CURRENT STATUS SUMMARY Photocell: NIGHT Type MRL-M Colour: White GPS: OFF Divergence: 2° Bluetooth: OFF Vbat: 14,10 V		C

Figure 16 – "POWER" screen

In the "POWER" screen, the following parameters can be modified and adjusted:

- Battery alarm
 - *LEDS attenuation:* Percentage of attenuation of the LEDs in the event of a battery alarm.
 - o *Disable Bluetooth*: Not configurable in this case, Bluetooth is always disabled.
 - *Disable GPS*: Choose whether to disable GPS in case of a battery alarm.
 - *Disable External Communications (AIS, GSM...)*: Choose whether to disable external communications in case of a battery alarm.
 - <u>Secondary Flash Code</u>: It can be chosen a different rhythm to reduce the consumption. The normall criteria is usually a rhythm with the same period and same number of flashes but these ones with a shorter duration than the original.
- Power Supply
 - <u>Nominal DC Input</u>: 12Vdc, 24Vdc or both (12-24V). In this last case, the beacon can be supplied either way so that the beacon will measure the voltage and will adapt the set values of the current consumption (which should be set considering a 12V supply).
 - o <u>Power type:</u> solar system, AC grid...
 - o <u>Battery Type:</u> Gel, AGM...



• Consumption alarm

- o <u>Max. Led consumption at 100%</u>: current above which to notify an over-consumption alarm
- o <u>Min. Led consumption at 100%</u>: current below which to notify low power alarm

Both values must be set for 12V in case the nominal input has been chosen 12V or 12-24V. In case of 24V, the values must be configured respect to that voltage.





In the "*TEST*" window, information of interest of the beacon can be observed.

The screen will display the following test options:

- **OFF:** To Turn Off the beacon (Day Mode).
- **ON:** To Turn On the beacon (Night Mode).
- *Auto Mode:* For the beacon to be switched on/off automatically by the photocell.
- *Reset:* To restart the beacon.
- Auto position: To detect GPS position.
- *Retrieve conf. of fabric.:* To reset the beacon to the factory default settings.

In addition, after pressing the "*Read*" button, you can see the different alarms available, and whether they are active or not, as well as more extra information about the beacon.

ENG 🗸		smart com360	🖻 🖆 ? – 🗆 ×
MSM MSM MSM INFORMATION PHOTOCELL COMMUNICATION	TEST OFF ON Auto Mode Reset Auto position	Retrieve Conf. of factory	28/02/2025 13:12:00 Update date
GPS RHYTHMS / POWER TEST COM6 ~ 『섯	Battery voltage (V) LED current (mA) Photocell (Ix) PWM LEDS (%) Watchdog fw. 1	4,10 Alarms: NO 3 • 40 • 10 •	Read
	CURRENT STATUS SUMMARY		
Version 0.9.117	Photocell: NIGHT GPS: OFF Bluetooth: OFF	Type MRL-M Colour: White Divergence: 2° Vbat: 14,10 V	C

Figure 17 – "TEST" screen





IMPORTANT

Once the check has been completed, **do not forget to press the "Auto Mode"** button as, if it is not pressed, the beacon will remain on (night mode) or off (day mode) and will not switch between these modes automatically. After a Reset, the beacon starts in Auto mode.





How can we help you?

Our platform ensures effective communication between MSM technicians and our customers to successfully resolve the issues raised. In case of any other doubts or issues, repairs and queries, please contact MSM through:

- Web: <u>https://mesemar.com/en/contact/</u>
- E-mail: MSM@MESEMAR.COM || after-sales@mesemar.com
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