Supervision of hazardous work area



SKY LASER TEMPLATE



CAUTION: Read this manual before using the device





MADE

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MODIFICATION'S DIRECTORY

Rév.	Subject of Amendments	Date and Author
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1.01	Booklet format	12/2019 T HUBERT
1.02	Warning label for Laser	01/2020 T HUBERT

This manual is important for your safety. Read it carefully in its entirety before using the equipment and keep it for future reference.

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This document is the user guide for the **SKY LASER TEMPLATE** (*GASKYL*) product. It describes how to commission the device as well as the different running modes to facilitate its use.

1.SAFETY INFORMATION

1.1.Safety recommendations

Please read this manual carefully before configuring or using the device. Be careful of all the hazard notices and warnings.

Failing to respect the instructions could lead to serious injuries to the operator or damage the device.

To guarantee the suitable protection of this device, do not use or install it in conditions other than those described in this manual.

1.2. Following the safety recommendations

<u>HAZARD</u>: Indicates an immediate or potential hazard which, if not avoided, would lead to serious or fatal injuries.

<u>**WARNING**</u>: Indicates a potentially hazardous situation that could lead to superficial or moderate injuries.

Note: Information that needs to be highlighted.

1.3. Warning labels

Read all the labels and statements fixed to the instrument. If the instructions are not respected, physical injury or damage to the instrument may occur.

Ŵ	Symbol requiring reference to the instruction manual for instructions concerning operation or safety recommendations.
4	Dangerous Voltage
\langle	Ac current
IP 65	IP standard – Protection against dust and water
	Do not throw away with household waste
	laser radiation class 1

2.<u>OVERVIEW</u>

This product is designed to **monitor boundaries and objects**.

It is **complementary** to classic signage around a works zone near structures considered to be hazardous (HVA/HVB lines in sub-stations, live transformers, SNCF HV lines, etc.).

The purpose is to create:

- Either a horizontal plane to monitor,
- Or a virtual wall that is not to be crossed.

This monitoring is provided using a laser scanner

The principle is to create a template (plan) created using LIDAR technology (laser).

2.1. Operating principle

The active laser scanner is a two-dimensional, contactless detection system that sweeps a freely programmable zone. Using an invisible infrared laser beam, the detection is immune to parasite light, even in total darkness.

As soon as a person enters the detection zone, the laser scanner sends a signal that can be used to trigger audible and visual alarms.

This laser detection solution runs effectively in all weather (masking of all ambient factors (fog, rain, etc.), lighting, size and type of object)



CONNECTION.





3.CONNECTION.

Power supply:

- Internal battery (7 hours autonomy)
- Mains, using the external specific SKY LASER TEMPLATE power supply.

4.INSTALLATION.

- Mount the SKY Laser template on its stand. The LIDAR must be at the edge of the zone.



- Start the device by pressing the key. Wait for initialisation to complete (20 seconds).

- Select the "zone selection" menu. Validate the required zone: configuration 1 to 4 (Refer to the device configuration sheet).

- Select the "teach-in" menu. Wait for auto teach-in to complete (10 seconds)

CAUTION: keep the zone free of all obstacles during this phase.

- Carry out a detection test in the required zone to check the correct choice of configuration.



Note:

The system is operational when the red rotating light turns off. If the zone is entered, the system triggers its audible (buzzer) and visual (rotating light) alarms.

4.1. Device position to monitor a "virtual wall".



Wall monitoring zone



Right and left monitoring zone

INSTALLATION.



Left monitoring zone



Left monitoring zone



Example of use by Eurotunnel to secure the platform.

4.2. System position for horizontal monitoring.





Right monitoring zone

INSTALLATION.



Left monitoring zone



Example of use on the TIGF work site fitted to the top of a 6m high mast, 20 x 25 metre zone. Alarms triggered in the cabin

4.3. System position for corner zone monitoring.



Corner monitoring zone

The principle is to place the device in a corner (vertical laser position) and it will monitor a corner zone (from the left, front view of the device)



5.<u>LOG.</u>

The system has a real time clock combined with non-volatile memory which it uses to record its events.

Examples of information, from the log:

```
02-22;14-25-28->#1236 22/02/17_11:08:39 Start up F_cpt_stck 1236/7281 (code 21, opt1: 1236, opt2: 7281)
02-22;14-25-28->#1237 22/02/17_11:08:52 SYSTEM Error START (code 23, opt1: 0, opt2: 0)
02-22;14-25-28->#1238 22/02/17_11:09:02 ALARM Entry END (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1240 22/02/17_11:109:02 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1240 22/02/17_11:11:32 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1241 22/02/17_11:11:36 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1242 22/02/17_11:11:50 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1243 22/02/17_11:11:53 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1244 22/02/17_14:24:59 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1245 22/02/17_14:25:03 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1246 22/02/17_14:25:03 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1246 22/02/17_14:25:03 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1246 22/02/17_14:25:03 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1246 22/02/17_14:25:27 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1248 22/02/17_14:25:57 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1249 22/02/17_14:25:57 ALARM Entry START (code 22, opt1: 0, opt2: 1)
02-22;14-25-28->#1250 22/02/17_14:26:32 ALARM Entry START (code 22, opt1: 1, opt2: 1)
02-22;14-25-28->#1251 22/02/17_14:26:32 ALARM Entry START (code 22, opt1: 1, opt2: 1)
02-22;14-25-28->#1253 22/02/17_14:26:36 ALARM Entry START (code 22, opt1: 1, opt2: 1)
02-22;14-25-28->#1253 22/02/17_14:26:36 ALARM Entry START (code 22, opt1: 1, opt2: 1)
02-22;14-25-28->#1253 22/02/17_14:26:36 ALARM Entry START (code 22, opt1: 1, opt2: 1)
02-22;14-25-28->#1253 22/02/17_14:26:35 ALARM Entry START (code 22, opt1: 1, opt2: 1)
02-22;14-25-28->#1255 22/02/17_14:28:35 ALARM Entry START (code 22, opt1: 0, opt2: 1)
```

Associated software can be used to read this data:

pti	ons Informations			Commande et Journal de bord, largeur 1074 hauteur 624	
	Paramètre	Valeur	*	Relance mode Configuration UC Rela	ance mode Lecture UC
1	num_carte	111		Information UC	Sauvegarde UC
2	can_offset	171		JDB dear Date UC: 22/02/17 14:34:26	Mise à jour date U
3	can_vref_max	1899		02-22;14-25-15->JDB ouvert: LS5_CONFIG_V000_JDB_2017-02-22 14-25-15.txt	_
4	can_alim_vcc	3257		02-22;14-25-18->Eeprom DEB 0H MAX 7281 SIZE 9 F_cpt_stck 1256 02-22;14-25-18->JDBINFO sens 0 position 1255 F_cpt_stck 1256 combien 7281 JDB_ENF	REG_MAX 7281
5	can_alim_ref	1723		02-22;14-25-20->#0000 25/01/17_09:00:55 Arret systeme Alim (code 25, opt1: 1, opt2 02-22;14-25-20->#0001 25/01/17_09:01:25 SYSTEME Erreur DEBUT (code 23, opt1: 1,	2: 0) opt2: 1)
5	alim_diode	240		02-22;14-25-20->#0000 25/01/17_09:01:28 SYSTEME Erreur FIN (code 23, opt1: 0, opt) 02-22;14-25-20->#0003 25/01/17_09:01:29 ALARME Franchissement DEBUT (code 22, 02-22):14-25-20->#0004 35/01/17_09:01:23 ALARME Franchissement FIN (code 23, 02-20):14-25-2000;14-2000;14-25-2000;14	t2: 1) opt1: 1, opt2: 1)
,	alim_gain	110	Ξ	02-22;14-25-20->#0005 25/01/17_09:05:52 Mise en Route F_opt_stck 5/7281 (code 22) 02-22;14-25-20->#0005 25/01/17_09:05:55 VSTEME Erreur FIN (code 23, opt]: 0, opi	, opt1: 5, opt2: 7281) t2: 0)
;	alim_batt_min	11500		02-22;14-25-20->#0007 25/01/17_09:06:15 ALARME Franchissement FIN (code 22, opt 02-22;14-25-20->#0008 25/01/17_09:23:43 Mise en Route F_cpt_stck 8/7281 (code 21	t1: 0, opt2: 1) , opt1: 8, opt2: 7281)
9	alim_batt_max	12500		02-22;14-25-20->#0009 25/01/17_09:23:56 SYSTEME Erreur FIN (code 23, opt1: 0, opt 02-22;14-25-20->#0010 25/01/17_09:24:05 ALARME Franchissement FIN (code 22, opt 02 02:04 05 00 + 00010 25/01/17_00:04:05 00 + 00010 25/01/17_00:04 00 + 00010 25/0000 25/0000 00 + 00010 25/0000 00 + 00010 25/00000000000000000000000000000000000	t2: 0) t1: 0, opt2: 1)
10	alim_temps_max	60		02-22;14-25-20->#0011 25/01/17_09:29:37 Mise en Koute F_CP_Stot 17/201 (Code 2 02-22;14-25-20->#0012 25/01/17_09:29:30 SYSTEME Erreur FIN (code 23, opt1: 0, opt 02-22:14-25-00->#0013 25/01/17_09:29:34 SYSTEME Erreur DEBUT (code 23, opt1: 1,	t2: 0) opt2: 0)
11	can_max_nb	100		02-22;14-25-20->#0014 25/01/17_09:29:37 SYSTEME Erreur FIN (code 23, opt1: 0, op 02-22;14-25-20->#0015 25/01/17_09:29:39 SYSTEME Erreur DEBUT (code 23, opt1: 1,	t2: 0) opt2: 0)
12	calib_timer_1ms	500		02-22;14-25-20->#0016 25/01/17_09:29:41 SYSTEME Erreur FIN (code 23, opt1: 0, opt 02-22;14-25-20->#0017 25/01/17_09:29:50 ALARME Franchissement FIN (code 22, opt	t2: 0) t1: 0, opt2: 1)
13	f_contrast	127		U2-2c; 1+-25-20->#00.19 25/01/17_09:50:26 Mise en ROute F_pC_stot 81/3281 (code 2 02-22; 14-25-20->#00.19 25/01/17_09:50:39 SYSTEME Erreur FIN (code 23, opt1: 0, opt 02-22; 14-25-20->#00.20 25/01/17 09:50:49 ALARME Franchissement FIN (code 22, opt	t2: 0) t1: 0, opt2: 1)
L4				02-22;14-25-20->#0021 25/01/17_09:54:12 Mise en Route F_cot_stdx 21/7281 (code 2 02-22;14-25-20->#0022 25/01/17_09:54:25 SYSTEME Erreur FIN (code 23, opt1: 0, opt	(1, opt1: 21, opt2: 7281) t2: 0)
15				CMD JDB	
16				JDB 04 Envoi	Demande Info: 61 14/61 (10sec
		1		DBG INF Conf: Horo T n-1 JDB Actif DTR RTS	Calibri 👻 10 🌩

EXAMPLE OF USE.

6.EXAMPLE OF USE.



7.SKYLASER TEMPLATE OPERATING SOFTWARE.

The software is supplied free of charge on a USB thumb drive. "Configurateur Gabarit Skylaser VX.XX .exe"

If communication with the scanner is needed, first connect the supplied Ethernet cable between the scanner and the PC.

Note that for laptops without an Ethernet port, there is an adapter available contact us.



To recover the log, connect a USB cord between the Skylaser Template CPU and the PC.

7.1.Installation.

By default, the software installs in "C:\Made-SA\Configurateur Gabarit Skylaser"



Caution: the scanner has a static IP address of 192.168.0.1 You therefore need to adapt your PC configuration to this address range

Note: for some PCs, you first need to disable WIFI access in order to avoid conflicts with the existing network

See PC configuration in the appendix

7.2. Principle.

The Skylaser Template Configuration software is composed of a page and a banner.



7.3.Banner function definition.



7.4. Creating the 4 detection zones.

Each zone must be drawn for the required detection configuration.



8.<u>REMOTE ALARM MODULE.</u>

8.1. Remote radio module.

Optionally the **SKY LASER TEMPLATE** can be fitted with 1 or more radio modules (up to 9) for remote alarms.

The radio modules have a range of about 100m.

Each radio module is standalone running on rechargeable batteries.

Radio monitoring and the power supply are permanent.

For cases where the SKY LASER TEMPLATE is in

the high or other positions, the N°1 remote radio

alarm box is used to calibrate. (Identical operation to the Select "teachin environment" menu.)

Wait for "self teach-in" to complete

CAUTION: keep the zone free of all obstacles during this phase.

8.2. Buzzer and indicator meanings.





REMOTE ALARM MODULE.

8.3. View of alarms on the remote radio box.

Signage available on the remote radio alarm



9. TECHNICAL FEATURES

9.1.SKY Laser template

Characteristic	
Transport case dimensions	546*347*247 mm (l*w*h)
Total SKY LASER dimensions	300*300*500 mm (l*w*h)
Weight of the loaded transport case	15 kg
Weight of the SKY LASER alone	3 kg
Protection rating	IP65
Power supply voltage	14 - 19 Vdc
Consumption	10 Watt max
Battery autonomy	7h
Maximum range	Radius 30 Meters
Operating temperature	25°C to +60°C
Sound level	90 dB
Presence of fog and particle filters	
Laser scanner status monitoring	alarm if out of order or if cells obstructed
Option	Addition of a reset to stop the alarms when the zone is entered

9.2. Remote alarm module

Characteristic	
dimensions	230*77*85 mm (l*w*h)
weight	0.4 kg
Power supply voltage	5 Vdc
Consumption	average 10mAh (500mA on load)
Response time	1 second

9.3. Radio module specifications

LE50-868 Functional Characteristics

ERC/REC70-03 Frequency (MHz)	Band g 863.000 -	Band g1 868.000 -868.600	Band g2 868.700 -	Band g3 869.400 -	Band g4 869.700 -870.000	
	870.000		869.200	869.650		
	Global					
RF data rate	(1): 4.8 kbps (2): 9.6 kbps					
Numbers of	60 (1)	12(1)	10(1)	1(1)	6(1)	
channels	60 (2)	12 (2)	10 (2)	1 (2)	6 (2)	
Channel width	50 kHz	50 kHz	50 kHz	250 kHz	50 kHz	
Channel 0	865.025 MHz	868.025 MHz	868.725 MHz	869.525 MHz	869.725 MHz	
Total Bandwidth	3 MHz	600 kHz	500 kHz	250 kHz	300 kHz	
		Transm	ission			
Duty cycle	≤1%	≤1%	$\leq 0.1\%$	$\le 10\%$	No requirement	
Modulation	GFSK with ±7 kHz GFSK with ±7 kHz	GFSK with ±7 kHz deviation (1) GFSK with ±7 kHz deviation (2)				
Max permitted e.r.p	25 mW	25 mW	25 mW	500 mW	5 mW	
	8 levels from -8dBm to +14dBm (except for g4 band, 6 levels from -8dBm to 7dBm)					
e.r.p	25 mW	25 mW	25 mW	25 mW	5 mW	
Reception						
Sensitivity	(1): Max - 109 dBm					
for PER < 10 ⁻³	(2): Max - 108 dBm					
Remaining PER			< 1.10-6			
Saturation for PER < 10 ⁻³			Up to - 10 dBm			

9.4. Emission in the ISM 868Mhz band.

NE50-868 Functional Characteristics

ERC/REC70-03 Frequency (MHz)	Band g 863.000 - 870.000	Band g1 868.000 -868.600	Band g2 868.700 - 869.200	Band g3 869.400 - 869.650	Band g4 869.700 - 870.000
		Glob	al		
RF data rate	38.4 kbps				
Numbers of channels	10	1	1 1		0
Channel width	200kHz	250kHz	250kHz	250kHz	-
Channel 0	865.6 MHz	868.300 MHz	869.000 MHz	869.525 MHz	•
Total Bandwidth	7 MHz	600 kHz	500 kHz	250 kHz	-
		Transm	ission		
Duty cycle	$\le 1\%$	$\leq 1\%$	$\le 0.1\%$	$\leq 10\%$	-
Modulation	GFSK with ± 40 kH	z deviation			
Max permitted e.r.p		25 mW	25 mW	500 mW	-
e.r.p		8 leve	els from -8dBm to +1	4dBm	
	25 mW	25 mW	25 mW	25 mW	5 mW
		Recept	tion		
Sensitivity for PER < 10 ⁻³	Max - 101 dBm				
Remaining PER	< 1.10 ⁻⁶				
Saturation for PER < 10 ⁻³	Up to - 10 dBm				

9.5. Wave propagation reduction

Poster	433 MHz	868 MHz	2.4 GHz
Factor	Attenuation	Attenuation	Attenuation
Open office	0 dB	0 dB	0 dB
Window	< 1 dB	1 – 2 dB	3 dB
Thin wall (plaster)	3 dB	3 – 4 dB	5 – 8 dB
Medium wall (wood)	4 – 6 dB	5 – 8 dB	10 – 12 dB
Thick wall (concrete)	5 – 8 dB	9 – 11 dB	15 – 20 dB
Armoured wall (reinforced concrete)	10 – 12 dB	12 – 15 dB	20 – 25 dB
Floor or ceiling	5 – 8 dB	9 – 11 dB	15 – 20 dB
Armoured floor or ceiling	10 – 12 dB	12 – 15 dB	20 – 25 dB
Rain and/or Fog	20 – 25 dB	25 – 30 dB	*

Examples of propagation attenuation

* = Attenuations increase along with the frequency. In some cases, it is therefore difficult to determine loss and attenuation value.

Note = The table above is only indicative. The real values will depend on the installation environment itself.

9.6. Authorisation to emit in the 868Mhz band.

868 MHz band Requirements

The "ERC recommendation 70-03" describes also the different usable sub-bands in the 868 MHz license free band, in terms of bandwidth, maximum power, duty cycle and channel spacing. LE50-868 can operate on Annex 1 bands where "ERC recommendation 70-03" gives the following limitations.

ERC recommendation 70-03				
Band	Frequency band	Maximum	Channel spacing	Duty cycle
	(MHz)	radiated power	(kHz)	(%)
		(mW)		
Annex1 g	863.0 - 870.0	25	=< 100 for 47 or more channels	100
Annex1 g1	868.0 - 868.6	25	No channel spacing specified	1
Annex1 g2	868.7 - 869.2	25	No channel spacing specified	0,1
Annex1 g3	869.4 - 869.65	500	25 (for 1 or more channels)	10
Annex1 g4	869.7 - 870.0	5	No channel spacing specified	100

These bands are free to use but the module and the user must respect some limitations. Most of these restrictions are integrated in the conception of the module, except the duty cycle. For example, the 869.400 to 869.650 MHz band is limited to a 10% duty cycle. This means that each module is limited to a total transmit time of 6 minutes per hour. It is the responsibility of the user to respect the duty cycle.

9.7. TELIT module declaration of conformity.

Ielit Convenientiens Sp.A	
 ME50-868, NE50-868, LE50-868 Telit Communications SpA – loc. This declaration of conformity is it Radio Module for Application in 8 	(products name) Sa Illetta, S.S. 195, Km 2.300, – 09122 - Cagliari - Italy (manufacturer) ssued under the sole responsibility of the manufacturer 68MHz ISM band
Telit EST CEBB2	Telit Stationers Martin Frank
 The object of the declaration de European Directive 1999/05/EC The conformity with the essent following harmonized standards: 	scribed above is in conformity with the relevant Community harmonisation (R&TTE) ial requirements of the 1999/05/EC has been demonstrated against t
EN 300 220-2 v2.3.1	RF spectrum efficiency (R&TTE art. 3.2)
EN 301489-1 v1.8.1 EN 301489-3 v1.4.1 EMC (R&TTE art. 3.1b)	
EN 62311:2008	EMF exposure restrictions (R&TTE art.3.1a)
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011	Electrical Safety (R&TTE art 3.1a)
7. The conformity assessment pro 1999/05/EC has been followed w CETECOM ICT SERVICES GM Notified Body Number 0682 Thus, C€ 0682 mar	book of the following Notified Body: BH Untertürkheimer Stranse 6-10 66117 Saarbrücken Country. German king is placed on the product.
 The Technical Construction File Declaration of Conformity, is hele Sgonico (TRIESTE) - ITALY 	(TCF) relevant to the product described above and which support th d at: Telit Communications S.p.A, Via Stazione di Prosecco, 5/b - 34010
Signed for and on behalf of Telit Con Trieste, 2012-09-28	nmunications SpA
guy no ver	1 Line March

10.MAINTENANCE, RECYCLING AND WARANTY

10.1. Maintenance.

Opening the devices is only authorized in the specific context of the operations described in this user guide.

Otherwise, it is strictly reserved to qualified staff approved by MADE. An annual inspection can be carried out on our premises.

Never use solvent or solvent-based products to clean the device and/or its accessories.

10.2.Recycling.

In compliance with French decree n° 2005-829 of 20 July 2005 covering the elimination of electric and electronic equipment (WEEE), the user is in charge of the collection and elimination of WEEE in the conditions provided for in articles 21 and 22 of this decree.

10.3. Warranty.

MADE SA guarantees the product for the initial buyer against all equipment or manufacturing defects for one year from the delivery date, unless otherwise indicated in the product manual.

If such a fault were to be discovered during the warranty period, MADE may decide to repair or replace the defective product, excluding handling and initial delivery costs. Products repaired or replaced under this warranty will only remain guaranteed for the remainder of the initial warranty period.

10.4.Limitation.

This warranty does not cover:

- Damage caused by force majeure events, natural disasters, strikes, wars (whether declared or not), terrorism, industrial action or the actions of all government jurisdictions.
- Damage caused by incorrect use, negligence, an accident or incorrect application or installation.

- Damage caused by repairs or attempted repairs not authorised by MADE SA.
- Products that are not used in compliance with the instructions provided by MADE SA.
- The transport costs for goods returned to MADE SA.
- The transport costs for express delivery or fast pack delivery of guaranteed parts or products.
- Mission costs relating to on site repairs under the warranty.

This warranty is the only explicit warranty provided by MADE SA for its products. All implicit warranties, including but not limited to, guarantees on the commercial value of the product and its adaptation to a specific use are formally rejected.

This warranty gives certain rights: the laws in the country or jurisdiction may give you other rights. This warranty is the final, complete and exclusive declaration of the warranty terms and conditions and the issue of other warranties or representations on behalf of MADE SA are not authorised.

10.5. Limitation of claims.

Claims for the repair or replacement are the only possible claims if this warranty comes into play.

MADE SA cannot be held liable, whether based on strict liability or any other legal theory, for any incident or consecutive damage resulting from a breach of the warranty or negligence.

10.6. Copyright.

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MADE SA declines any liability for any errors or inaccuracies this document may contain.

11.APPENDIX

11.1.IP address configuration

Configuration panel\Network and Internet\Network connections



Go to properties using the right mouse button.

📮 Propriétés de Ethernet	×	
Gestion de réseau Partage		
Connexion en utilisant :		
🚍 Realtek PCIe GBE Family Controller]	
<u>C</u> onfigurer		
Cette connexion utilise les éléments suivants :		
 Client pour les réseaux Microsoft Partage de fichiers et imprimantes Réseaux Microsoft Planificateur de paguets QoS 		
 Protocole Internet version 4 (TCP/IPv4) Protocole de multiplexage de carte réseau Microsoft Pilote de protocole LLDP Microsoft Protocole de protocole LLDP Microsoft 		
Installer Désinstaller Propriétés		
Description Protocole TCP/IP (Transmission Control Protocol/Internet Protocol). Protocole de réseau étendu par défaut permettant la communication entre différents réseaux interconnectés. OK Annuler		

Click on Internet protocol version 4 and click on Properties

Propriétés de : Protocole Internet version 4 (TCP/IPv4)		
Général		
Les paramètres IP peuvent être déterminés automatiquement si votre réseau le permet. Sinon, vous devez demander les paramètres IP appropriés à votre administrateur réseau.		
O Obtenir une adresse IP automatiquement		
• Utiliser l'adresse IP suivante :		
Adresse IP :	192.168.0.2	
Masque de <u>s</u> ous-réseau :	255 . 255 . 255 . 0	
Passerelle par <u>d</u> éfaut :		
Obtenir les adresses des serveurs DNS automatiquement		
Utiliser l'adresse de serveur DNS suivante :		
Serveur DNS pré <u>f</u> éré :		
Serve <u>u</u> r DNS auxiliaire :		
<u>V</u> alider les paramètres en quittant <u>A</u> vancé		
	OK Annuler	

Modify and fix a static IP address, for example: 192.168.0.2 Validate using OK.

APPENDIX

You can then launch the software

