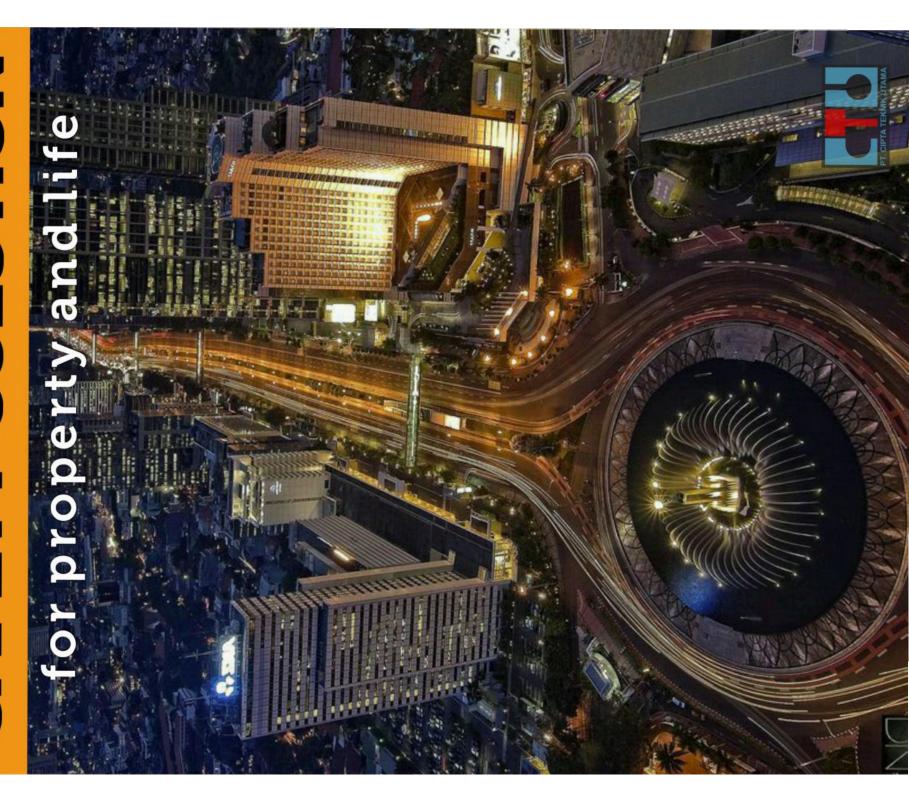
SAFETY SOLUTION



Kreasitama Group of companies) was estabilished in 2011, we are a company organized and existing under the law of Indonesia, having its registered at Jl Danau Sunter Utara -Rukan Sunter Permai Blok A-18, Sunter Agung, Jakarta PT. Cipta Teknik Utama (member of PT. Cipta Graha

We are Distributor and System Integrator of:

GHTNING SPECIALIST

- Blitz External and Internal Lightning Protection System
 - Ruggear & iSafe Intrinsically-Save Mobile Phones
 - Fireblock Pemadam Api Cerdas Terinstalasi

Support and services:

- Survey, Consultation, Disain Drawing
 - After sales service
 - Backup unit 3
- Spare parts 4
- Operational and Troubleshoot Training
 Standar Operating Procedures, Manual, Literatures
 Testing & Commisioning
 Factori Acceptance Test

Utama products and expect every customers to become our company's long term partner. This is the commitments made by PT. Cipta Teknik Utama and also is the very target we have been We expect every customer can get satisfied services while selecting PT Cipta Teknik persuing for years.

•

Our company will advise the client on the correct installation for their requirements, for lightning protection and earthing, in accordance with the relevant local and international standards. Each installation is designed specifically to the unique requirement of the structure, such us hazardous areas, electronic process control, local lightning conditions, corrosiveness of grond etc, as well as

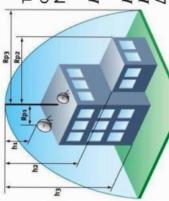
Our company has fully equipped installation teams, who comply with relevant codes of practice and our strict quality control. Our quality control has been developed to ensure that the protection systems as designed are installed accordingly and are fully operative at handover. All materials are manufactured to the relevant codes of practice. PT. Cipta Teknik Utama recommends that all earthing system by inspected or audited annualy to ensure that the system is well working. We design supply and install protection systems for all industries such as mining, oil and gas, industrial plants, offices, education, telecommunications utilities and shopping centers

The design, supply and installations of a lightning protection system includes a range of test. A soil resistivity survey is conducted prior to design to determine the soil resistivity of the site. The installation will be designed according to the results obtained. Once the installation is complete the earth resistance is tested. The resistance and layout of the earthing system determines the efficiency of the protection system installed. Continuity tests must be conducted throughout the instalation. There must be contunuity between the different earthing system and the lightning protection system. This result in the lightning protection system. This result in the creation of on equipotential earth



Radius of Protection

Model Number	BLZ-800	BLZ-1100
Max. Discharge Current	≥ 200 KA (10/350µS)	≥ 200 KA (10/350µS)
Capacity againts win speed	≥ 40 m/s	≥ 40 m/s
Length	37 cm	40 cm
Discharge time in Advance ∆T	30 hs	sri 09
Weight	3,5 Kg	4,5 Kg
Protection Radius	By Formula	By Formula
Material/Copper	Stainless Stell/Copper	Stainless Stell/Copper
Standard	France NFC17-102 (1995)	France NFC17-102 (1995)



The Protection Area RP of BLZ ESE Lightning conductor is calculated according to France Standard NFC 17-102

 $Rp = \sqrt{h(2D+h) + \Delta L(2D+\Delta L)}$

Rp: Radius Protection D: Protection Level (20/45/60) $\Delta L(m) = V(m/s) \times \Delta T(s)$

INTEGRATOR ELECTRICAL SYSTEM T AND MECHANICAL

System Intergrator for the IT and Mechanical & Electrical System PT. CIPTA TEKNIK UTAMA also can provide:

- Consultancy Services
- Sales and Ditsribution of High End Video Displays Solution and Back End System
 - Technical Support Installation, Testing and Commisioning Service After Sales Support In House Service Center, Maintenance Services

- STANDARS REFERENCE
 French NFC17-102, 1995 for ESE Lighning Protection System
- IEC 62305 for Conventional Lighning Protection System and Grounding System SNI 04-0225-2000 for Grounding System
- NFPA for Fire Protection and Lighning Protection System
 - UL94-V-0 for Enclosure Material

AGENCY

. CIPTA TEKNIK UTAMA is Sale Agent and Distributor in Indonesia for:

- Blitz Total Solution for Lightning Protection System (External & Internal). Multi Display Video Solution GE, Honeywell, Vewell, HIKvision, DET.
- Multi-Graphic Videowall Processor.
- Projector and Image Processing Barco, Epson, NEC.
 Outdoor or Indoor LED Screen/Videotran.
- Fireblock Fire Extinguisher.
- I.Safe MOBILE Intrinsically-safe mobile phones











ORKING EXPERIEN

PT. CIPTA TEKNIK UTAMA has provide the complete solution for design, install and maintenance of Lighning Protection System for customers such as:

- Bank
- Chuch & Temple
- Cigarette Manufacture & Distributor
 - Data Center
- Governent & Ministry
 - Hotel
- Indonesian Shiyard Mechanical & Electrical Contractor
- Plantaion, Private International School Oil & Gas Industries
- Mining
- Radio Stations
- System Integrators









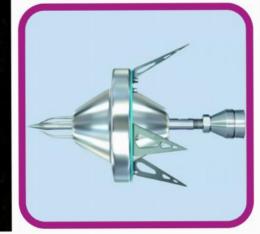




The principle of operation for ESE terminals is to create an upward propagating streamer earlier than conventional air terminals or other objects on the earth Blitz Ese terminal does this by collecting and storing ground charge during the initial phase of a thunderstorm development.

Once a thunderstorm begins creating downward step leaders, the ambient electric field intensity in the area of the ESE terminal increases. When this electric field intensity reaches a preset level, it triggers the terminal to release the storage ground charge, forming an upward streamer microseconds earlier than other object in the immediate area.





The ionisation device is charged via the lower Electrodes using the ambient electrical field. This means The BLITZ ESE Terminal is fully autonomous system requiring no external power supply.

The ionization phenomenon is controlled by device wich detects appearance of downward leader the local electrical field increase rapidly when a discharge is imminent.

Early triggering of the upward leader using a system of spark ionization beetwen the upper electrodes and central tip. The Blitz Ese Terminal abbillity to trigger an upward leader ahead of any other protruding point within the protected area ensures it will be the preferential point of impact for the lightning discharge preferential point of impact for the lightning discharge.

Model Number	BLZ-800	BLZ-1100
Max. Discharge Current	≥ 200 KA (10/350µS)	≥ 200 KA (10/350µS)
Capacity againts win speed	≥ 40 m/s	≥ 40 m/s
Length	37 cm	40 cm
Discharge time in Advance ∆T	30 hs	sn 09
Weight	3,5 Kg	4,5 Kg
Protection Radius	By Formula	By Formula
Material/Copper	Stainless Stell/Copper	Stainless Stell/Copper
Standard	France NFC17-102 (1995)	France NFC17-102 (1995)







Front & Back Interface Introduction

ш	Front Interface	erface	Back	Back Interface
Test Button		P Power Indication Lamp	SWITCH	Power Switch Button
	F	Test Indication Lamp	Recharge Terminal	Recharge Terminal Power Recharge Terminal
	UP	UP Upper Electrode Indication Lamp Output Terminal +/-5VCD Power Output	Output Terminal	+/-5VCD Power Output
	-OK	OK Indication Lamp		
	LOW	LOW Lower Electrode Indication Lamp		
	ò	OK Indication Lamp		
	DEF	Faulty Indication Lamp		

How to test

Connection: Before connecting the tester with Power by the Power adapter (110V/220V/230V -9V) or with 9V Portable Power Source, insert the alligator clips into OUTPUT terminal following its RED/BLACK colour. Then press button SWITCH, Power Indication Lamp's on, hold the Black clamp to the central rod of the TSTLP ESE terminal.

(Note: Red and Black alligator clip's connection to the central rod and lower electrodes or central rod to the upper electrodes can be exchanged for test).

Safe Function Test

- a. Lower (LOW) electrode test: Hold one RED alligator clip to any lower electrode, press T, it's working OK if T and LOW-OK indication lamp's on which makes long voice. It's faulty if DEF indication lamp's on, which makes several short-noise. Repeat same operation steps to rest lower electrodes till finished.
- press T, it's working OK if T UP-OK indication lamp's on swich makes long voice. Its faulty if DEF indication lamp's on which makes several Short-noice. Repeat same b. Upper (UP) electrode test: Hold one RED alligator clip to the any upper electrode, operation steps to rest upper electrodes till finished.

LIGHTNING SPECIALIST



LZ-100C25 2

25 kA (10/350 μs) 100 kA (8/20 μs) 120 kA (8/20 μs) 275/385 V : UL94-V0 < 25 ns < 3 kV **Enclosure Material** Imaks TRes limp limp dn

: Parallel

Connection Type

PE PE PE BL. TZ BL TZ PE PE PE BLZ-100/3

.Z-100/3

: ≤ 3 kV : 100 kA (8/20 μs) : 150 kA (8/20 μs) : 275/385 V : UL94-V0 ≤ 25 ns : Parallel **Enclosure Material** Imaks **TRes** limp dn nc

Connection Type



: ≤ 25 ns : PBT (Pollycarbonate) : ≤ 1,2 kV : 20 kA (8/20 μs) : 40 kA (8/20 μs) : 275/385 V : Parallel **Enclosure Material** Connection Type Imaks limp nc d



N-S

10 kA (8/20 µs) 220/275 V < 1 kV : Series Connection Type Imaks limp η nc

SPECIALIST LIGHTNING

Surge Arrester Data



-Z-RJ45E100/8 M

TRes limp S η

: 5/6 V : ≤ 13 kV : 2,5 kA (8/20 μs) : ≤ 1 ns : Series

Connection Type

BLZ-24RJ45E100/8

TRes limp S d

Connection Type

: 5/6 V : ≤ 13 kV : 2,5 kA (8/20 μs) : ≤ 1 ns : Series

Arrester Surge Signal

















water & Surfactant Flouracarbon water & Surfactant Flouracarbon FB/P4 -10°- +55° 7 meters 4.0 Liter 6 years 1.0 Liter 2 meters -10° - +55° 6 years Working temperature (Celsius) The Validitty period of Area Outage Contents Capacity

- Siaga 24 jam sehari/7 hari seminggu Masa pakai 6 tahun

- Lulus Sertifikat Penguji Dinas Pemadam Kebakaran dan Penanggulangan Bencana Provinsi DKI Jakarta
- pa instalasi pipa atau pompa
 - dak beracun
- Ramah Lingkungan Lulus Sertifikasi ISO 9001:2008

i.safe MOBILE

RugGear iSafe is the leading manufacturer of the world's most advanced intrinsically-safe mobile phones used in some of the most dangerous and potentially explosive areas like oil and gas, chemicals, petrochemicals, mining, pharmaceuticals, energy, bunkering etc.

As the demands of these industries increase, RugGear iSafe is committed to deliver the highest quality of explosion-safe mobile phonesin the world, meeting the ATEX and IECEx safety standards.

StorageCap





180 gram with battery
Micro USB
2.2 COVGALCD, 240X320 pixel
JPEG, BMP
AAC/AMR/3GPP/3CPP/MP4/AVI/
2 mega pixel 2 meters :-20 to 60 C : Antenna external via earphone : 850/900/1800/1900 GPRS Class 12 EDGE : 850/1900/2100 Mnz, HSPA, 3G, Bluencoth V.2.1, SMS, MMS, GPS, PT : 127/63x24 mm (5,0°x2,5°x0,95°) : yellow/black : up to 300 hours : up to 5,5 hours : approx. 3,5 hours : IP 67 2G GSM Frequent Quad-Band 3G Frequencies

and many more Calculator, world time, alarm clock, stopwatch : 256Mb+128Mb up to 8Gb Micro-SD card slot : Java/WAP Java 2.0 / WAP (V2.0) : Languages English, German, Spanish, French A010000D Languages Java/WAP ArticleN Tools

ADVANTAGE

Whether you are a mining enterprise or a

utilities manager - RugGear iSafe mobile phones deliver safe and reliable communications to make clear calls, anytime under any extreme conditions and environments.

GUARDIAN 1.0



: GSM 900/1800/1900 MHz : GPRS, WAP : 60 mm x 126 mm x 22 mm (5.0*x,5*x)95°) : 5,5 h (depending on local network) . 450 h (depending on local network) 2.2 LCM/QVGA 2.0 MP, CMDS Sensor 180 gram with battery Micro USB . 1000pcs . 1000pcs . Battery 1800mAh .-20 C.55 C . Support up to 16GB MS capacity lattery operatingTemp

Mechanical Data Battery 197: 2 SIM-Card Slot (SMI/CPRSEDGE(650)900/1800/ 1900 Mhz)Bluetoch 3.0 SMS, MMS, PTT (Server based, third party software required) MTG260A

2.0" (176 x 220)
GAMB RAM 64MB ROM Slot for Micro-SD card up to 32GB
CHALLENGER 2.0: 1.3MP Camera, CHALLENGER 2.1: no camera
USB on-the-go able to charge other

USB device Full size phone keypad 2 volume control keys Dedicated PTT key

USB OTG

2500mAh lithium ion battery up to 600hstandby time (80/10/10d) up to 10h continous/Ahrs charging time via USB charger 126 x 58 x 23 mm (4.96*x2.28*x0.91*) 165g, 1F68 GMIB



Wi-Fi

2G: GSM/GPRS/EDGE (650/900/1900/MHz) (650/900/1900/1900/MHz) 3G: UMTS/WCDMAHSPA+ (850/1900 3G: UMTS/WCDMAHSPA+ (850/1900 MHz 802.11b/g/m 8 MT6589 quad core (1,2GHz) 3,2" HVGA (480 x 320) with capasitive Dedicated SOS Key LWP-prepared counscreen CA A 20 With cap (GB RAM, 4GB ROM slot for Micro-SD card up to 32GB (SM autofocus camera with flash, 0,3 front camera AGPS) party software required) ANDROID 4.2.1

Compass

Rower Key, Menu, Home and
Back Keys 2 volume control keys.
Dedicated PTT and SOS keys
: 1800mAh lithium ion hattery up to
100h standby time (80/10/10) charging
time via USB charger14 x R8.5 x 29mm
: (4.88" x 2.68" x 1.14") 24g, IP68 Acceleration, Humidity, Temperature Air Pressure, Electronic



Service Certificate

PT. CIPTA TEKNIK UTAMA

Ji. Danau Sunter Utara - Rukan Sunter Permai Blok A-18,
 Sunter Agung - Jakarta Utara 14350
 Telp./Fax. (62) 21 65302105 / (62) 21 6506737
 is an authorised i.safe MOBILE Service Centre Workshop.

This certificate is issued by i.safe MOBILE GmbH having its registered office at i_Park Tauberfranken 10, D-97980 Lauda-Koenigshofen, Germany.

1. PARK TAUBERFRANKEN 10
97922 LAUDA-KOENIGSHOFEN

Martin Haaf

Managing Director i.Safe MOBILE GmbH

Danny Lim Trace of Operations Manager
OKTA Holding Pte Ltd

Date: 1 January 2015



Rep. Office

Jl. Danau Sunter Utara - Rukan Sunter Permai A-18 Sunter Agung - Jakarta Utara 14350 - Indonesia

Office : Jl. Danau Indah II Blok A2/12 Sunter -Jakarta Utara 14350 - Indonesia

Phone : 021-6530 2150, 021-29 561 780 | Fax. 021-650 6737, 021-27479165 Website : www.ctu-indonesia.com