

ALIM10K HT1P10K  
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**AIVIA**  
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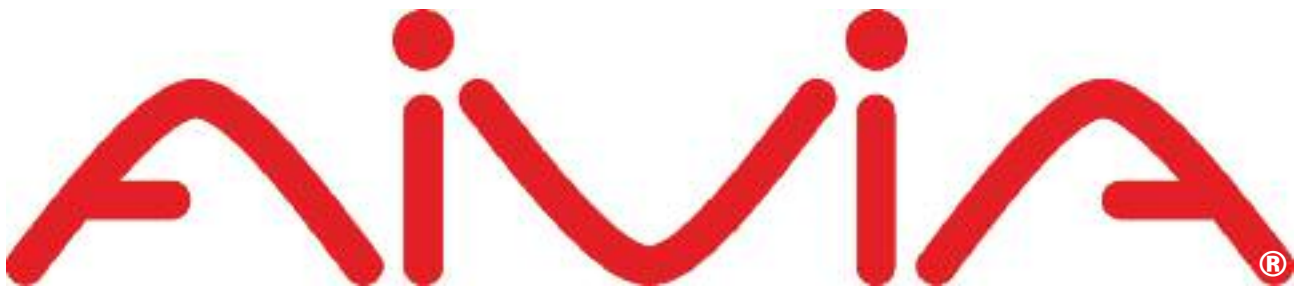


**AED**  
♥  
**DAE**



**SOS**





## Protection Cabinets, Supervision Cabinets For AED (Automated External Defibrillators)

CRA (Cardio-Respiratory Arrest), commonly called "sudden death", is the leading cause of death in developed countries. Governments and private companies are making AEDs generally available.

This major deployment in public, commercial and private locations involves the AED, an information plan for first aid actions, standardized signage and a suitable environment.

All these elements together constitute the PAD (Public Access to Defibrillation).

To respond to all situations, two families of AIVIA have been created (AIVIA Protection and AIVIA Supervision) and are available in nine different models.

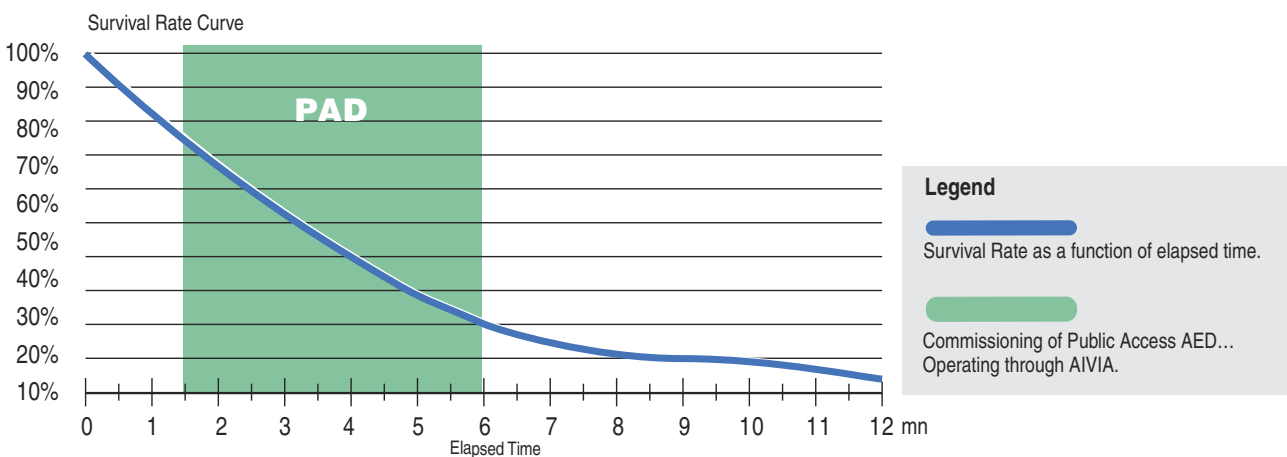
AIVIA Protection (AIVIA 100, 200, 210, 220 and 230) accepts AEDs and protects them from the environment (dust, humidity, rain, cold, etc.).

AIVIA Supervision (AIVIA 300, 310, 320 and 330) accepts, protects and monitors the AEDs. They guarantee their operational monitoring and ensure complete material oversight.

Installation and monitoring of AIVIA are subject to a BORNAVIE charter.

This quality charter includes companies that contribute to the installation and monitoring of the AIVIA in their functions of protection and supervision.

### Public Access to Defrillation (PAD)



A JAMA (The Journal of the American Medical Association) study published in 2006 and covering 10 years of PAD in the USA concluded with the necessity to accompany AEDs with a monitoring and geo-locating system

*Objectives To determine the number and rate of AED recalls and safety alerts, to identify trends in these rates, and to identify the types of malfunctions prompting AED and AED accessory advisories.*

*Design and Setting Analysis of weekly US Food and Drug Administration (FDA) Enforcement Reports between January 1996 and December 2005 was performed to identify all recalls and safety alerts (collectively referred to as "advisories") involving AEDs and AED accessories. Confirmed AED device malfunctions were identified by reviewing AED-related adverse events reported to the FDA.*

*Results During 2.78 million AED device-years of observation, 52 advisories (median [25th and 75th percentiles], 4.5 [3.0 and 5.0] per year) affecting 385 922 AEDs and AED accessories were issued. The mean (SE) annual number of AEDs affected by advisories was 5.1 (1.5) devices per 100 AED device-years. Overall, 21.2% of AEDs distributed during the study period were recalled, most often because of electrical or software problems. The AED advisory rate did not significantly increase during the study period, although the annual number of AED advisories (P for trend=.02) and AED accessory devices (P for trend=.01) did increase. Confirmed fatal AED-related device malfunctions occurred in 370 patients.*

*Conclusions Automated external defibrillators and AED accessory advisories occur frequently and affect many devices. Actual AED malfunctions do occur occasionally, although the number of observed malfunctions is small compared with the number of lives saved by these important devices. As the prevalence of AEDs continues to increase, the number of devices affected by advisories can also be expected to increase. Efforts should be directed at developing a reliable system to locate and repair potentially defective devices in a timely fashion.*

## Protection of EADs

### AIVIA 100, 200, 210, 220 and 230 Functions and Options

- Local visual alarms (blinking red LEDs) advising of malfunctions.
- AIVIA 220 and 230 include a hands-free telephone intercom. Two telephone numbers may be configured, with or without the prefix, the second being activated in case the first is busy or there is no answer. The call function can be limited to when the cover is opened to eliminate « false alarms ».
- Opening of cover by digicode or RFID badge reader on AIVIA 210 and 230.
- Opening of cover remotely by telephone on AIVIA 230.



### OPTIONS

- Two-tone 105dB siren which sounds on opening (95 dB for AIVIA 100).
- Rechargeable battery backup to ensure vital functions (opening and telephone) on AIVIA 210, 220 and 230.
- Heating (except AIVIA 100) to maintain a positive AED compartment temperature effective to  $-20^{\circ}\text{C}$  outside. This option is accompanied by a temperature probe for automatic activation of heating and ventilation based on predefined thresholds.
- GSM telephone on AIVIA 220 and 230; this option involves supply of the SIM card and subscription to a telephone operator at the customer's expense.



## BORNAVIE

The BORNAVIE support base designed specifically for AIVIA permits an installation respecting urban furnishing regulations and respects recommendations for use by disabled persons.

Made of 8 mm aluminum AG3 5754H111 20/10° (standard version comes with emergency green epoxy (RAL 6024 complying with standard ISO 3864).

The BORNAVIE support base plate is attached to the ground with 4 studs (sealed or split), a central opening to allow various cables to pass (electrical, telephone, network).

Customization of the bases by applying an anti-graffiti plastic film may be the subject of supplementary services.



# AED Supervision

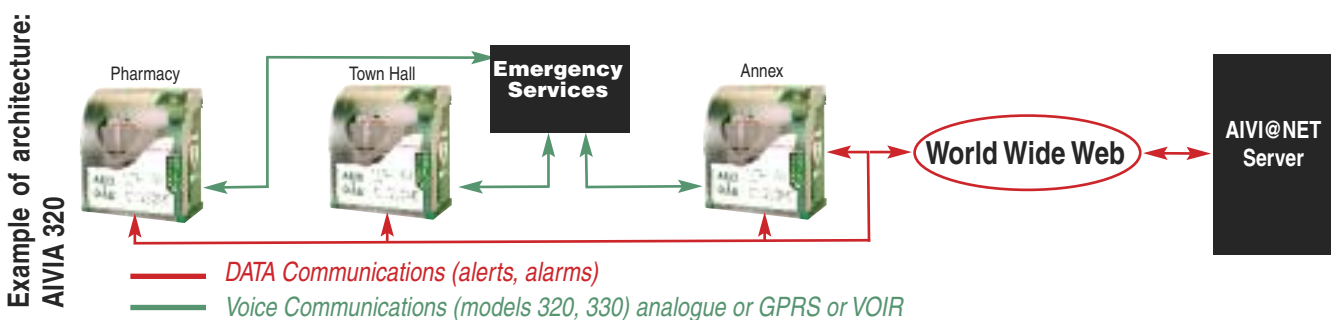


## AIVIA 300, 310, 320 et 330 Functions and Options

- Ethernet network link (LAN) with Ethernet (IP V4, IP V6 compatibility).
- Software settings allowing AIVIA configuration on the local network (auto-configuration of DHCP or IP address, mask, sub-mask, DNS 1 & 2, username and password for PROXI...).
- Communications between AIVIA and AIVI@NET server using http.
- Continuous monitoring of AED condition through an optical sensor specific to each AED make and model.
- Automatic and immediate uploading of alerts and alarms to the AIVI@NET server in case of use or malfunction.
- Automatic routing of alert or information emails to users.
- AIVIA 320 and 330 include a hands-free telephone intercom. Two telephone numbers may be configured, with or without the prefix, the second being activated in case the first is busy or there is no answer. The call function can be limited to when the hood is opened to eliminate « false alarms ».
- Rechargeable battery backup to ensure vital functions (opening and telephone) on AIVIA 210, 220 and 230.

## OPTIONS

- GPRS communication (voice and data) including GSM telephone and communications with the AIVI@NET server. As with the GSM option, the GPRS AIVIA Protection requires a SIM card and subscription to a telephone operator at the customer's expense. The subscription to be taken out is type M2M package from 10 to 20 Mbd (with DTMF option for models 320 and 330).
- VOiP module for AIVIA 320 and 330.
- Heating to maintain a positive AED compartment temperature effective to - 20° C outside. This option is accompanied by a temperature probe for automatic activation of heating and ventilation based on predefined thresholds.
- Photo control using an infrared objective takes a photo of the person opening the cover. These photos are transmitted to the server and stored for viewing by authorized persons.



## The AIVI@NET server

Associated with the AIVIA Supervision, the AIVI@NET server gathers monitoring information on all AIVIA – AEDs which are connected to it.

Accessible by secure access from any computer connected to the internet, it allows traditional browsers (IE, Firefox, Chrome, Safari, etc.) to instantly supervise all AEDs associated with the profile.

Automatic transmission of appropriate email alerts to the person concerned depending on the type of alert or alarm. Depending on the type of alerts or alarms intended for the person concerned.

Geo-locating of AIVIA – AED pairs.

Statistics module.

Changing AIVIA settings is possible from the server (Help telephone n°, for example).

Traceability of maintenance operations for each AIVIA – AED pair.

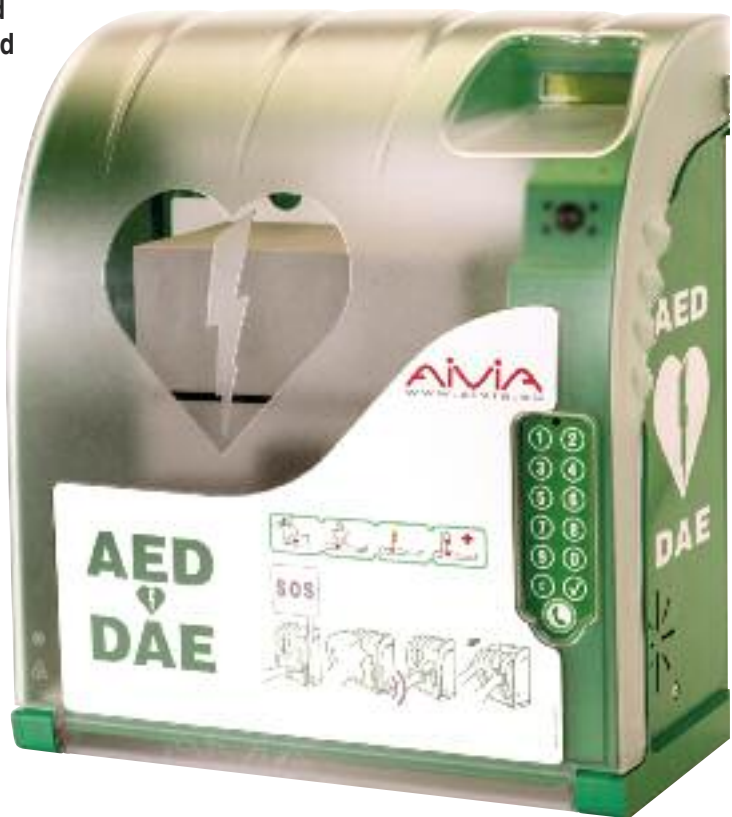
Automatic alert for preventive maintenance operations (electrode expiry date, for example).



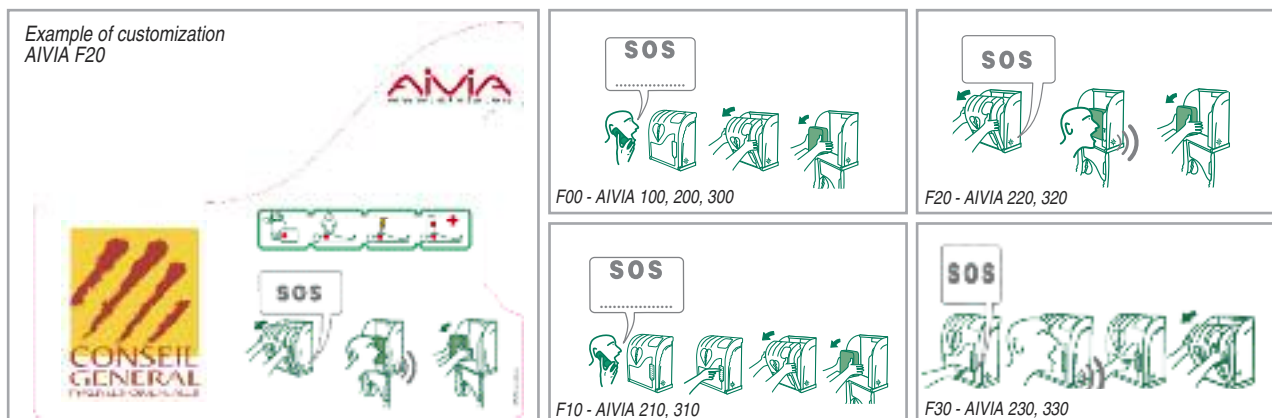
## Presentation common to all AIVIA

The AIVIA is a solution of French design and production which meets all CE standards and requirements.

- BORNAVIE wall or base mounting inside or outside the building.
- Polycarbonate cover (UL V0 and anti-UV treatment) leaving the AED visible.
- Mechanics in emergency green ABS (RAL 6024), complying with international standard ISO 3864 for emergency color coding, and to CFRC recommendations.
- Access to the AED which is either free (plastic seals) or secured (motorized opening).
- A light sensor automatically activates LEDs to light the AED compartment.
- VLV (Very Low Voltage) 24 volt power supply, except AIVIA 100 which is battery powered (4 X LR20).
- Pictogram signage which is adapted to each AIVIA model.
- Customized facing optional.



NdT: CFRC: Conseil Français de Réanimation Cardio-pulmonaire (French Council of cardiopulmonary reanimation.)



<b>AIVIA Protection</b>		Siren	Heating	GSM	GPRS	VOIP	Photo control	Battery Backup	24 Volts Power Supply	Bornavie Base	Power Supply for Bornavie Base
Battery powered interior cabinet, free opening protected by seals	<b>100</b>	5 									
Battery powered per sector (24 Volts), interior/exterior cabinet, free opening protected by seals	<b>200</b>	5 									4 
Battery powered per sector (24 Volts), interior/exterior cabinet, free opening protected by digicode or RFID badge	<b>210</b>	5 									4 
Battery powered per sector (24 Volts) interior/exterior cabinet, hands-free phone to call emergency services, free opening protected by seals	<b>220</b>	5 			1 						4 
Battery powered per sector (24 Volts) interior/exterior cabinet, hands-free phone to call emergency services, free opening protected by digicode or RFID badge or remote opening	<b>230</b>	5 			1 						4 
<b>AIVIA Supervision</b>											
Battery powered per sector (24 Volts), interior/exterior cabinet, free opening protected by seals, Ethernet network link, AED state control	<b>300</b>	5 				2 					4 
Battery powered per sector (24 Volts), interior/exterior cabinet, free opening protected by digicode or RFID badge, Ethernet network link, AED state control	<b>310</b>	5 				2 					4 
Battery powered per sector (24 Volts) interior/exterior cabinet, hands-free phone to call emergency services, free opening protected by seals, Ethernet network link, AED state control	<b>320</b>	5 				2 	3 				4 
Battery powered per sector (24 Volts) interior/exterior cabinet, hands-free phone to call emergency services, free opening protected by digicode or RFID badge or remote opening, Ethernet network link, AED state control	<b>330</b>	5 				2 	3 				4 

Legend : = Standard = Option

(1) and (2) Supply of SIM card and subscription at customer's expense

(2) Type M2M subscription with 10 Mbd minimum

(+ option DTMF for models 320 et 330)

(3) Broadband required

(4) Includes and replaces standard power supply

(5) Two Tone 105dB (Except the AIVIA 100: two tone 95 dB)