

DIGIFACT™ A

AUDIO STREAMING AND ANALYTIC SYSTEM DATASHEET AND QUICK START GUIDE

DESCRIPTION

The Digifact™ A is a networked audio monitoring and streaming device which streams audio over several industry standard RTP protocols. The wide dynamic range microphone supports a wide frequency response capable of picking up low and high frequency sounds. The device features a robust quad-core microprocessor that has the capability of integrating signal processing applications, audio enhancements and analytic applications. Analytic applications can be added to the device to detect and report events such as:

- Aggression/Duress
- Gunshots/Explosions
- Breaking Glass
- Car/Panic Alarms



Front



Rear



NOTE: Digifact™ A Microphone is NOT recommended for outdoor use or in areas with high moisture content.

IMPORTANT NOTICE

When this equipment is used as part of an audio monitoring system, the law requires that the public be given notice of AUDIO MONITORING ON THE PREMISES. A decal notice is included with each microphone shipped.

Federal Law References:
Federal Regulations, US Code, Title 18.
Crime and Criminal Procedure, Sec 2510.

WARRANTY

LOUROE ELECTRONICS® warrants that at the time of shipment products manufactured by LOUROE ELECTRONICS® to be free of defects in material and workmanship. Should a defect appear within one year (12 months) from date of shipment, LOUROE ELECTRONICS will, at its sole discretion, repair or replace the defective equipment. This equipment shall not be accepted for repair or return without prior notification by LOUROE ELECTRONICS®

This warranty does not extend to any Louroe product that has been subjected to improper or incorrect installation, misuse, accident, or in violation of installation instructions provided by LOUROE ELECTRONICS.

Returned shipments to LOUROE ELECTRONICS® shall be at customer's expense. LOUROE ELECTRONICS® will return the equipment prepaid via best way.

TECHNICAL SPECIFICATIONS

AUDIO

Audio Streaming: One-way

Audio Compression: PCM,16 bits linear

G.711 a-Law G.711 mu-Law G.726-40

AAC

Sensitivity: -45 dBV/Pa, 1 Pa = 94 dB SPL

Frequency Response: 50 Hz to 15 kHz

NETWORK

Security: Password protection, user level access (admin and operator)

Supported protocols: IPv4, HTTP, RTSP, RTP, TCP, SSH

SYSTEM INTEGRATION

Application programming: Open API for software integration, specifications at www.louroe.com

interface

Analytics: Louroe/SI audio analytics, audio level (dB) alarm

Event triggers: Analytics, audio level

Event actions: TCP notification, external output activation, pre and post-alarm audio recording

to Network Attached Storage (NAS)

GENERAL

Enclosure: High Impact Anti-Static ABS
Power: Power over Ethernet IEEE802.3af

optional external 5V DC 2A (2-pin header)

Memory: 512 MB RAM

Event triggers: Audio analytics, decibel threshold

Event actions: TCP notification, external output activation, pre and post-alarm audio recording

to Network Attached Storage (NAS)

Connectors: Female RJ45 for 10BASE-T/100BASE-TX PoE; 5-pin header for four outputs

(5V DC), max load 100mA; 2-pin header for 5V DC 2A input

Operating Conditions: -20°C to 50°C Humidity 10-85% RH

Storage Conditions: -30°C to 60°C

Dimensions: 4.7 in (119mm) diameter x 2.0 in (50.8mm) height

Weight: 9.0 oz Packaged weight: 1.0 lb

Included accessories: User manual, 5-pin and 2-pin headers

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MOUNTING

The Digifact™ Model A is cylindrical, 4.7" dia. x 2" H, and has four mounting holes for surface mounting to a ceiling or other flat surface. It should be positioned so that the microphone is 4' to 8' from the area of desired coverage.

NETWORK AND POWER CONNECTION

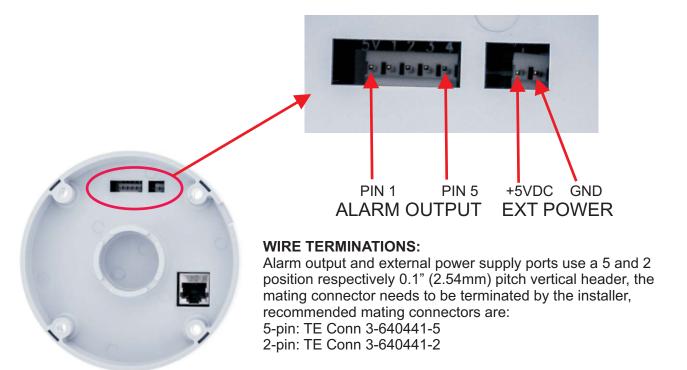
A Female Rj45 jack is located on the rear of the unit for 10BASE-T/100BASE-TX PoE connection using CAT5/6 cable. If no PoE connection is available (network only) an optional two-pin header is available for connection of a 5V DC 2A external power supply (not included), as depicted in the image below. Once the device is powered on (PoE or ext power) the blue light on the front of the device should turn on.

INSTALLATION TIP: For instances where the CAT5/6 cable is to make a side entry to the rear of the unit, it is recommended that the cable not be terminated using a molded strain relief, and instead the cable wound once around the inner ring of the device to provide strain relief to the cable.

ALARM OUTPUT CONNECTIONS

Four digital alarm output ports are available for connection to external devices, the alarm outputs can be set to trigger from analytic and volume threshold events. If used with an inductive load, e.g. a relay, a diode must be connected in parallel with the load, for protection against voltage transients.

FUNCTION	PIN	NOTES
5V DC	1	Max load 100mA
Output 1	2	
Output 2	3	
Output 3	4	
Output 4	5	



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DEVICE DISCOVERY AND DEFAULT PASSWORD CHANGE

DEVICE DISCOVERY

The Digifact A is by default set to obtain an IP address from the network it is connected to (DHCP), hence it must be connected to a suitable DHCP server. To discover the device on a network, the following commands need to be run through windows powershell to locate the device name;

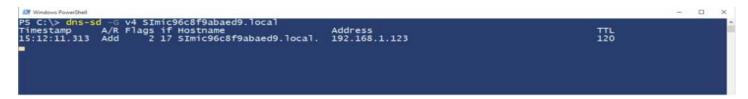
dns-sd -B _simic._tcp



Once the device name has been located, the following script must be run:

dns-sd -G v4 <devicename>.local

to locate the device IP address:



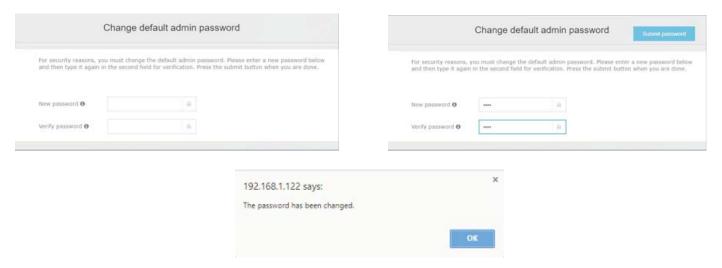
The device IP address can them be typed into an internet browser (Chrome, Internet Explorer, Firefox etc.) to access the device user interface page.

DEFAULT PASSWORD CHANGE

On first use the default password for the device is;

username: admin password: admin

After entering the above information, the device will request the user to change the default password

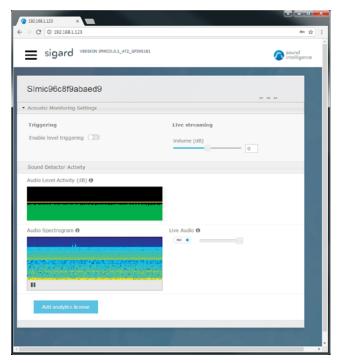


Once the default password has been changed the device prompts to re-enter the new password to login to the device.

LIVE VIEW

The live view screen of the device contains information and controls such as:

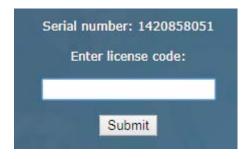
Device firmware version, device name, acoustic monitoring settings, sound detector settings, audio activity spectrogram, listen live control, ability to add analytic licenses as well as access to the other device parameter pages.



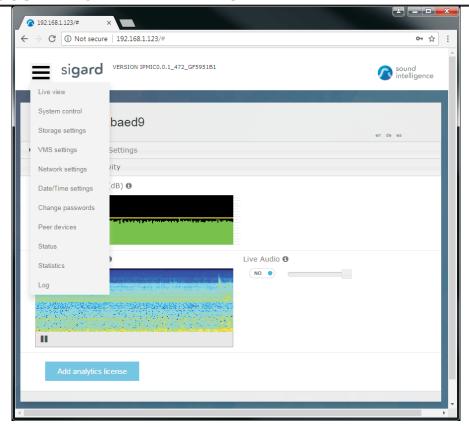
Device firmware: System and firmware updates can be periodically updated from www.louroe.com **Acoustic Monitoring settings:** Allows for enabling level triggering, setting level threshold, adjustment of streaming volume level (dB), adjustment of time and volume over ambient threshold (for analytic applications). **Sound Detector activity:** Graphic representation of sound activity level and classification (for analytic applications) of audio signals detected by the device.

Live audio: Allows for enabling/disabling of live audio stream played from the speakers of the device from where the device user interface is being accessed.

Add Analytics License: Used to add audio analytic detector application licenses to the device, note clicking on the button displays a dialog page with the serial number of the device, using the serial number licenses can be requested by either calling Louroe customer service at: 1-818-994-6498 and/or emailing the serial number to sales@louroe.com with information regarding the type of application/s desired.



MISCELLANEOUS DEVICE PARAMETERS



DEVICE PARAMETERS

The ≡ icon on the top left hand side of the live view page, grants access to miscellaneous device parameters such as;

System Control:

Revert to default settings - sets device setting to factory default

Reboot - reboot's the device

Device Name - character text box to rename the device (numeric and alpha-numeric only, no spaces)

Enable Live audio streaming - turns the audio stream on/off

Start/Stop/Change Analytics - starts/stops and modifies the type of analytic applications running on the device Update to new firmware - updates device firmware; source file can be downloadeded from www.louroe.com

Storage configuration:

Used to configure parameters for network attached storage device (NAS)

VMS configuration:

Used to configure meta-data transmission to Video Management Systems (VMS), detailed application notes of adding and configuring devices to VMS's can be found at www.louroe.com

Network Settings:

Set the device to a static IP address and configure device IP settings.

Date and Time configuration:

Configure devices date/time settings

Peer devices:

Used to detect and configure other Louroe devices on the same subnet.

Status:

Displays device status/health parameters such as; CPU usage and temperature, memory and network status.

Provides day/time stamped entries of system events, please note in the event of reported issues with the device please send a detailed email to techsupport@louroe.com and attach the latest downloaded copy of the log data for analysis and troubleshooting