

KAS-12/12PRO for NX-5000 Series

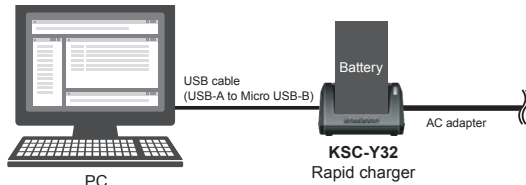
BATTERY READER SOFTWARE/MANAGEMENT OPTION

With the Intelligent Battery System for the NX-5000 Series, you can be sure that batteries are optimally maintained and always ready for your operations. Charger monitoring is performed by KAS-12 Battery Reader software, while the KAS-12PRO Software Upgrade License adds a powerful management function with a detailed database of information of batteries & chargers, whether local or connected via IP network.

KAS-12 MONITORS BATTERY/CHARGER STATUS

KAS-12 Battery Reader software monitors the status of batteries and chargers to extend battery lifetime and ensure optimal maintenance.

- Battery Reader allows status monitoring of batteries being recharged on KSC-Y32 rapid chargers connected via USB.



Simple 1-to-1 configuration with USB connection

- Up to 60 rapid chargers* can be monitored simultaneously from a single PC connected via USB hubs in a 2-tier formation.

VIEWABLE INFORMATION

Information can be displayed numerically/graphically on a PC monitor.

- Rechargeable battery:** Battery health (percentage), current voltage, temperature, cycle count, insertion time, charge completion time, date of first use, market code, number of charges until next reconditioning, etc.
- Rapid charger:** Serial number, chemistry, time to full, model name, charger alias, market code, auto reconditioning cycle, charging mode, and cycle count warning level
- PC:** Computer name, computer alias, IP address, and KAS-12 version

KAS-12PRO MANAGES BATTERIES/CHARGERS

Battery Reader installed with the KAS-12PRO enables status data from Battery Reader to be stored on a server for centralized management of the rechargeable batteries being monitored from any PC on the network (requires KAS-12PRO Upgrade License).

- Capable of managing up to 5,000 rechargeable batteries.
- Data acquired from a battery reader can be stored, via IP network, in a database as history data, which can be viewed as lists & graphs.
- Battery & charger information can be exported in HTML or CSV format.
- A client PC on the network can be used to change battery and charger configurations.

SUPPORTED BATTERIES AND CHARGER

[Li-ion BATTERY PACKS]

- KNB-L1 7.4 V/2,000 mAh
- KNB-L2 7.4 V/2,600 mAh
- KNB-L3 7.4 V/3,400 mAh
- KNB-LS5 7.4 V/2,000 mAh, Intrinsically Safe
- KNB-LS6 7.4 V/2,000 mAh, Intrinsically Safe

[Ni-MH BATTERY PACK]

- KNB-N4 7.2 V/2,500 mAh

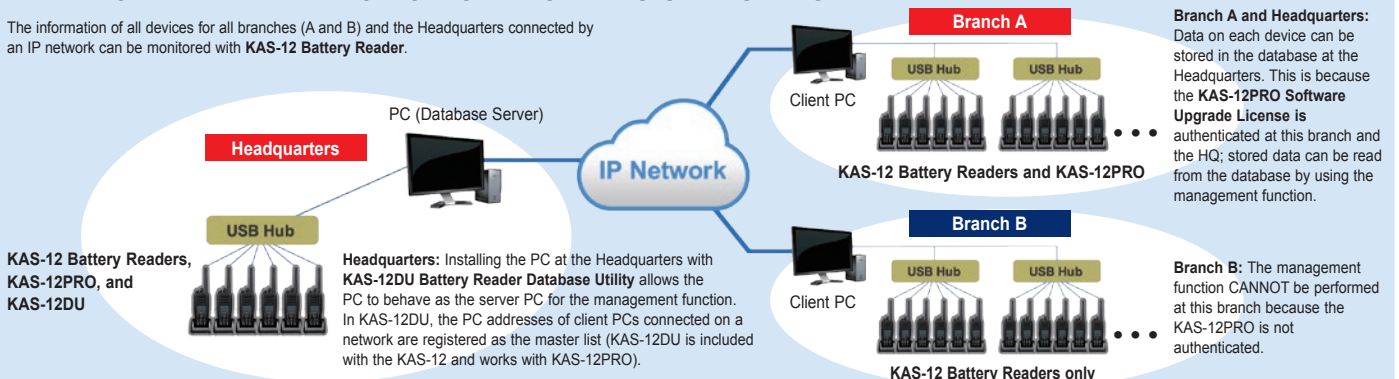
[KSC-Y32 RAPID CHARGER]



*It is recommended to connect a battery charger when the PC is running. Take care if multiple chargers are being connected. Note that for a battery charger to be correctly recognized as a USB device depends on the PC configuration, settings, drivers, etc. The KAS-12 Battery Reader may only be started after the PC recognizes the battery charger(s).

EXAMPLE OF BATTERY READER MONITORING/MANAGEMENT SYSTEM FOR A COMPANY

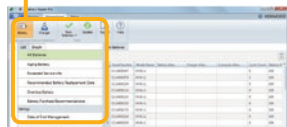
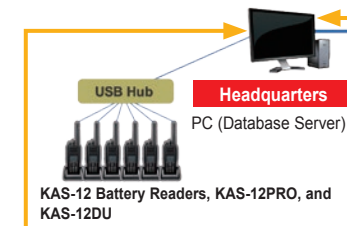
The information of all devices for all branches (A and B) and the Headquarters connected by an IP network can be monitored with KAS-12 Battery Reader.



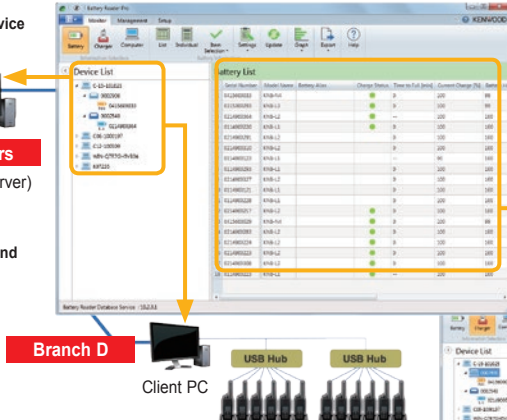
BATTERY READER/BATTERY READER PRO USER INTERFACE

The below scenario describes a company with all network-connected PCs – headquarters and branches C & D – that feature monitoring and management capability, because the KAS-12PRO application is used.

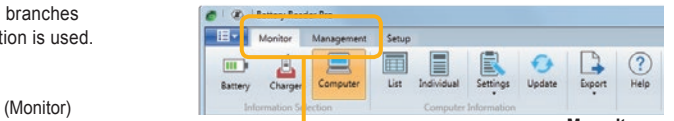
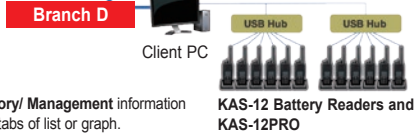
In **Monitoring mode**, the left pane shows a Device List of all devices connected to the system.



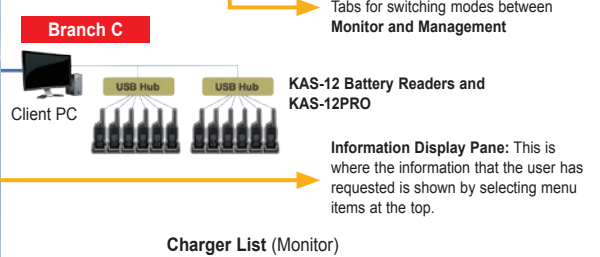
Battery List (Monitor)



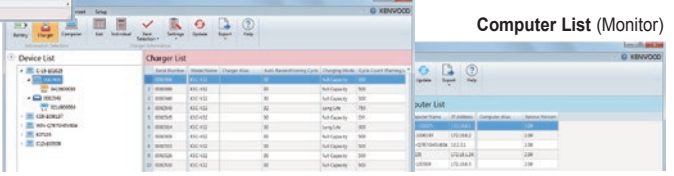
In **Management mode**, the left pane shows History/ Management information of the corresponding battery, with two selectable tabs of list or graph.



Menu Items



Charger List (Monitor)

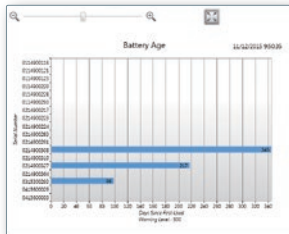


Computer List (Monitor)

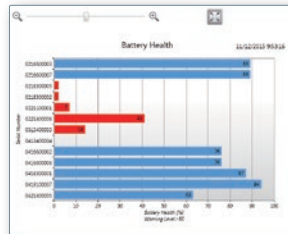
Information Display Pane: This is where the information that the user has requested is shown by selecting menu items at the top.

MONITOR BATTERIES/CHARGER WITH KAS-12

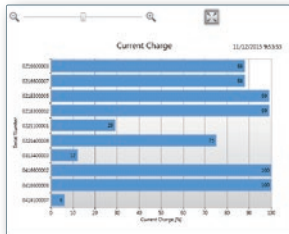
The status of monitored items on KAS-12 can be viewed in list or graph form. Below are some sample monitoring graphs:



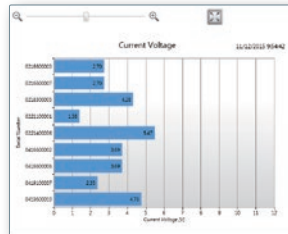
Battery Age: No. of days since first use



Battery Health: Degradation status of network connected batteries



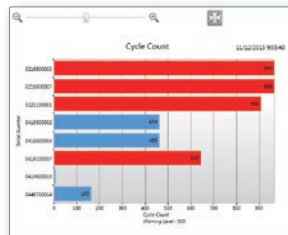
Current Charge: Charge status of network connected batteries



Current Voltage: Value of the current voltage of network connected batteries



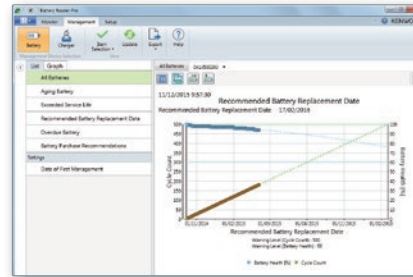
Time to full shows estimated time to complete charge.



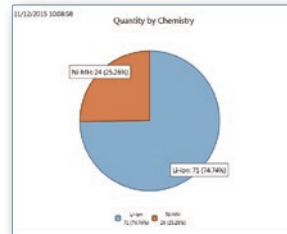
Cycle Count numbers are shown as a bar graph.

MANAGE BATTERIES/CHARGERS WITH KAS-12PRO

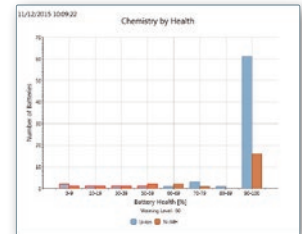
History and other management information can be viewed as lists or as graphs on KAS-12PRO authenticated PC. Below are some history and management information graphs:



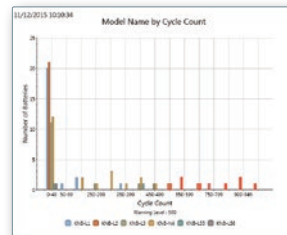
Recommended Battery Replacement Date graph shows the best time to replace the selected battery. Note that the device pane on the left changes to a list/graph tab when the tab is set to Management in KAS-12PRO.



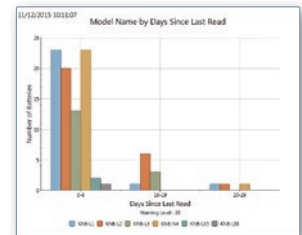
Quantity by Chemistry: Ni-MH and Li-ion (pie graph)



Chemistry by Health (bar graph)



Model Name by Cycle Count (bar graph)



Model Name by Days Since Last Read (bar graph)

Specifications are measured according to applicable standards, and subject to change without notice, due to advancements in technology. Supported operating systems: Microsoft Windows 10, 8.1, 7 and Windows Server 2012 R2. All product names referenced herein are trademarks or registered trademarks of their respective manufacturers.

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