

DMS4

User Guide

SMARTWITNESS VEHICLE CCTV AND SAFETY SYSTEMS



MINIMUM PC REQUIREMENTS FOR DMS4 Server Software

OS: Windows XP or higher CPU: i5 Quad Core RAM: 4GB (0-50 Vehicles), 8GB (50-100 vehicles), 16 GB (100-250 vehicles) HDD: 10GB per vehicle (storage will vary based on event total, live stream requests, & HD video requests). Data usage per vehicle, per month will range between 500mb & 1GB. Please plan accordingly. Monitor: 1280 x 800 resolution

NOTE* It is recommended that the DMS4 PC is used only for our DMS4 software and not other operations. The DMS4 PC must not go into hibernate/sleep mode as the internet connection must remain to receive the data from the vehicles.

NOTE** A static/public IP address or DDNS is required so the KP1 cameras can find the server remotely. A port # must be specified and open for two-way communication between KP1 and the DMS4 server. DMS4 will not function properly with a Dynamic IP address.

The following softwares must be downloaded to your PC/Workstation/server

- KP1 Configuration Tool: <u>http://smartwitness.com/usa/download-software.html</u>
 - Used to configure the KP1 camera with server credentials and cellular/Wi-Fi network details
- KP1 PC Analysis Software: <u>http://smartwitness.com/usa/download-software.html</u>
 - Used to analyze HD video uploads and convert HD videos to standards
- DMS 4 Server Software: <u>http://www.smartwitness.com/usa/software/DMS4.zip</u>
 - DMS4 software will default to demo license. Demo license allows connection for up to 3 vehicles.
 - Please contact SmartWitness or your distributor to purchase a license for fleets larger than 3 vehicles.



KP1 setup: Configuration Tool > Info Tab

| 1) Open the Configur | ation Tool 2) Select Info Tab |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Configurat Tool KP1 | Device Record Event Info. Connectivity Server Date / Time Paylight Saving Time Month Week No. Day of Week Hour Start 3 × 2 × Sunday × 2 × End 11 × 1 × Sunday × 2 × Time Zone (UTC) -6 × : 00 × GPS Time Sync At Start Up × |
| 3) Enter your Vehicle ID *It should be less than 10 characters; alphanumeric only. | 8/25/2015 9:56:28 AM System Vehicle Speed Format mph SD Card Auto Format Feature |
| *Do not use spaces between characters. | Driver ID Hank Lee 4) Enter Driver ID (Name) |
| *Vehicle ID and Driver Name can also be added/changed remotely from DMS4 server software. Adding it on the SD card of each vehicle is not mandatory. | Settings Initialize SD Card About Open Save Eject SD Card |

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KP1 setup: Configuration Tool > Connectivity Tab

| | 5. Select Connectivity | |
|------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|
| | Configuration Settings | |
| (Charly Enghla | Device Record Event Info. Connectivity Server | - |
| 6. Check Enable | Connectivity Type | |
| | Enable () | |
| 7. Set your service type as "Server" | Service | 8. Set your SIM card |
| | Type Server V | connection information |
| | Mahila Natwask | *This will vary depending |
| | Dial No. +99# | on the cellular provider |
| | APN fast t-mahile com | |
| | | |
| | | |
| | Password | |
| | Authentication NONE V | |
| | SMS Center Number | |
| | USB protocol Type 0 | 0. Set your USD donale |
| 8-2. You can use Wi-Fi | WiFi | type. |
| INT3(wifi) usb modem | AP | |
| required. KP1-INT1-S power | | *All dongles will be "0" except for the Huawei |
| adaptor also highly | | E3531 model. |
| power shutdown feature) | rassworu | |
| | | |
| Enter Wi-Fi SSID and password here | | |
| prostroitation | | |
| *You cannot use 3G and Wi Fi simultaneously | | 1 |
| wi-ri siniuitaneousiy | Settings Initialize SD Card About Open Save Eject SD Card | |

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KP1 setup: Configuration Tool > Server Tab



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(If Applicable) Uninstall previous version of DMS4

Programs 1. Control Panel => Uninstall a program Uninstall a program Programs and Features - 0 × Control Panel
 Programs
 Programs and Features + 23 Search Programs and Features ø 2. Select DMS4 previous version and remove it Control Panel Home Uninstall or change a program To uninstall a program, select it from the list and then click Uninstall, Change, or Repair. View installed updates 🚱 Turn Windows features on or off Uninstall Organize 🔻 - Publisher + I... - + Size - Version Name DMS 4.3.0.RC5 Y3K Limited. 3/10/2015 Microsoft Visual C++ 2010 x86 Redistributable - ... Microsoft Corporation/ 3/9/2015 11.1 MB 10.0.40219 × 9/2015 Skype DMS4 Uninstall 48.9 MB 7.1.105 Micros 9/2015 13.8 MB 10.0.40219 Micros 9/2015 10.0.50903 Are you sure you want to completely remove DMS4/and all of its Dropb 27/2015 3.2.6 components? SVC10 2/2015 39.4 MB DVRVie /8/2014 Ext2Fs /8/2014 0.51 Yes No HP Sup /18/2014 80.8 MB 7.4.45.4 HP 3D TRIVELEDAR /18/2014 701MB 4291 DMS4 Uninstall X DMS4 was successfully removed from your computer. 3. Check the message and click OK OK

NOTE: To prevent any unexpected issues, please remove previous version first before installing new version.

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DMS4 Installation on PC/Server/Workstation







DMS4 Overview

DMS4 is the Database Management Server for KP1.

- Receives tracking & image data from KP1
- Send commands to KP1 (HD video request, live stream, configuration upload, etc)
- > Analyzes the DRV log files sent from KP1 to create driving behavior reports
- Send email reports from DMS4

| ● SMA | RTWITNESS | DMS | | | | | | | | = | |
|-------|-------------|------------|------------|------------|-----------|--------|-------|-------|--------|---------------------------|-----|
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| All | | ک 🔻 | | 2 | | | | | | | |
| No | Active | Vehicle Id | Vehicle No | Group | Driver No | Update | Event | Alarm | Signal | Speed | R |
| | | | | | | | | | | | |
| | | | | | | | | | | | -1 |
| | | | | | | | | | | | -1 |
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| 🔺 Lic | ense - DE | MO | | | | | | | 2015.0 |)8.25 <mark>14:1</mark> 3 | :31 |



DMS Software Icons

| Admin login | Pause D | MS Start DMS | Analyze Driving Da (drive rep | ata Datal Mana oorts) | base agement | DMS4 Settin | lgs | About | | |
|----------------|---------------|--------------|-------------------------------------|-----------------------------|-----------------|----------------|-----------------|------------|--------------|-------|
| O SM | ART | MS | | | | | | | 5 | |
| | | | | <u> </u> | کا کار | 9 | | | | |
| All | | | | | | | | | | |
| No | Active | Vehicle Id | Vehicle No | Group | Driver | Update | Event | Alarm | Signal | Spe |
| 1 | Х | 00007 | 65BA7000 | KP1 | \backslash | | | | | |
| 2 | x | 00005 | 65BA7010 | KP1 | | | | | | |
| 3 | x | 00003 | 0001 | Simul | | | | | | |
| 4 | X | 00004 | 0004 | Simul | | | and m | | | |
| 5 | Select | 00002 | 0006 | Simul | | | GPS Tra | cking Map | | |
| 6 | Group | Event | 0011 | Simul | | | | | | |
| 7 | X | List | 32BA1765 | IXAT | | 05:50:29 | 7 | XXXXXXX/XX | XXXXX | 0 |
| 8 | Х | 00001 | 32BA1769 | IXAT | | | | | | |
| 9 | х | 00012 | 32BA1792 | IXAT | Hank LEE | 14:32:00 | 4 | XXXXXXX/XX | XXXXX | 5 |
| 10 | х | 00006 | ~ | | | | | | | |
| 11 | Х | 00011 | 0015 | | | D | | | | |
| 12 | Х | 00010 | 1111 | | | Re Ur | emote ograde | | | |
| 13 | х | 00009 | SantaFe | | | (fi | rmware & | | | |
| | 0 – connect | tad | | | \setminus | со | nfiguration |) | | |
| | (Online uni | t) Da | aily Lau | unch PC | | | | | | |
| | X = not con | nected Se | Vie Vehicle (fo | r viewing HD | Daily Search | | | | | |
| | (offline unit | t) No | o. upi | ioau requests) | List by | | | | | |
| | | | | | Driver | | | | | |
| < | | | | _ | | | | | | > |
| | | | | | | | | 201 | 5.08.25 14:3 | 34:38 |



Admin Log in/Log out

| | | 1. Click | Admin log in "I | .ock" Icon | | | | | | | |
|-------|-------------|------------|-----------------|------------------------------|----------------------------|---------------|-------|-----------------------------------------|----------------------|----------------|-----|
| | PTWITNESS (| oms III | -W- 🛄 | 6 0 | ∃ | | | | | - | |
| All | Active | Vehicle Id | Vehicle No | Group | Driver No | Update | Event | Alarm | Signal | Speed | R |
| | | | | DMS 4.0 Please i Passw | nput password.(1000 ord |)~9999) ОК | | 2. Input (Default 3. Click OK but | Password password | is 4321 |) |
| • | | | III | | | | | | | | Þ |
| 🛦 Lic | ense - DEN | 10 | | | | | | | 2015. | 08.25 14:48 | :37 |

4. Admin logged in successfully (Unlocked)



£

Live Tracking Map





Event List





Click Event List



Event Playback Control Buttons





Request Original Video from KP1 (MDT file)

| Request Video H H 3/11/2015 4:24:23 PM Frem 3/11/2015 4:24:43 PM To 20 | 1) Select the date and time. You can download up to 20sec original video at one time. If you highlight an event from the Event List and then click "Request Video", it will default to the Event time. Optional: you can add a title and a memo note describing the event for easy identification when using the PC Analysis software to view the uploaded video. |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memo Title Memo | 2) Select backup folder location |
| | |
| Folder CAUsersikp1demoiDocumentsiDAS-Manual Typa Event Open | |
| Stert | Open downloaded Video folder using Windows Explorer. MDT files will open with the PC Analysis software |
| 4) Click Start to begin the download from KP1. KP1 must be online to request a video | Select video type. This helps keep your requested deos organized for easier retrieval. |



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Playback of Video Requested from KP1





Daily Route Vehicle Tracking Information





Live Communication with active KP1 device

| | 2) Click "Live" Tab |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | |
| | Monitoring Vehicle 2015/08/28 IKHackl - TestDryr1 |
| 1) Double click on an ac | Event Snapshot No Event 0 ServerTrg 11:50:29 Camera1 Camera1 ServerTrg 11:50:29 ServerTrg 3) Click Comma |
| | Event EDA Live 8/28/2015 Command Device Device |
| | Open Images Folder |



Live Commands



Live Streaming Images

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-

| 112020420 | Snapshot | - | | cire communia | veer if ve i min tet | |
|-----------|----------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No | Event | Гс | amera1 | | Camera2 | |
| 0 | Shock | | Contraction of the local division of the loc | and the states of | | and the second se |
| 1 | Shock | 0 | | | Contraction | and the second se |
| 2 | Shock | 0 | | | | 10 - |
| | | | | Req Image(s) 1 V | Stop Processing Snapshot | equest Video |
| | | - | | | | |
| | | | Setting File | View System Lo | og View Initiate | Event |
| | | | Setting File | View System Lo | og View Initiate | Event |
| | | | Setting File | View System Lo Configuration Upgrade | og View Initiate Beep Duration 5 | Event |
| | | | Setting File Firmware Upgrade Device Reboot | View System Lo Configuration Upgrade Calibrate Gsensor | Dg View Initiate Beep Duration 5 Alarm Out1 Alarmo | Event Press Stop button to finish Live Stream |

View the Existing Settings on KP1





View the Detailed System Log Files on KP1



NOTE: KP1 will send two log files (1st log is related with Network, and 2nd log is related with System)



Initiate an Event Recording from DMS4 Server



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OTA (Over The Air) Firmware Update

*For mass OTA firmware update to multiple vehicles at the same time OR if a vehicle is offline and you cannot access live FW update, see page 36



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Remote Setting Configuration, Changing Vehicle No., & Changing Driver Name

*For mass OTA settings update to multiple vehicles at the same time OR if a vehicle is offline and you cannot access live setting update, see page 36





Reboot and Remote G-sensor Calibration and Remote Format





EDA (Quick view of Event Data Analysis data)

| | 2) Select E | DA tab | | 1) Select Date | | |
|-------------------------|--------------------------|------------------|--------------------|----------------|-------------------|-------------------|
| Event EDA | A | 8/27/20 |)15 🗾 7:19 | 2:58 PM 🚦 | Connection | |
| & EDA 07:06: | 39 ~ 18:59:14 0 | 2:20:01 / 52mile | | | | |
| Avg Speed | Peak Speed | S.Accel | S.Brake | S.Start | ↑ TSpeed | |
| 45mph | 97mph | 1 (0.4/h) | 2 (0.9/h) | 1 (0.4/h) | 00:29:09 (20.8 %) | |
| *TEco-speed | ¹ N Eco-speed | T RPM | ¹ N RPM | Idling | | |
| 00:39:19 (28.1 % |) 26 (11.1/h) | 00:00:00 (0.0 | %) 0 (0.0/h) | 0 (0.0/h) | | |
| 100 8 | 9 10 | 11 12 | 13 14 | 15 16 | 17 18 | |
| 75 | | | | | | |
| 65 | | | | | 4.1 . | Blue: up to 40mph |
| 40 | | | | | | Orange: 41-65mph |
| | | | | | | Red: 65 to 75mph |
| | | | | | | Maroon: 75mph+ |

This data is for 1 day (00:00:00~23:59:59) Total driving time: 2hours 20min 01sec. Total driving distance: 52 miles.

Average Speed: 45mph, Top Speed: 97mph **Quick Acceleration: 1times (0.4 times per hour)** Sudden Brake: 2times (0.9 times per hour) Sudden Start: 1 times (0.4 times per hour) **Over Speed duration: 29min 9sec.** Over Eco-Speed driving duration: 39min 19sec. **Over Eco-Speed counts: 26 (11.1 times per hour) Over RPM driving hour: There is no RPM data.** Over RPM: There is no RPM data. Idling: There is no RPM data.

NOTE: You have to use KP1-INT2 Junction Box power accessory to connect RPM cable to receive RPM data. Then you can check RPM and Idling time.

KP1 Connection Time Table





Analyze Driving Data - Monthly report



1) Click Analyze Driving data Icon

| | Data MGMT | |
|-------------|---------------------|--|
| Data Search | | |
| ODriver | Vehicle | |
| | Monthly report | |
| | Driver ECO Ranking | |
| | Daily Detailed Info | |

| Jutton | Monthly report | > |
|------------|----------------|---|
| Date | 2015. 08 | ~ |
| Vehicle No | 32BA1769 | ~ |

4) Then you will see below Monthly report and if you want you can print this report





Driver ECO Ranking Report



2) Select Date and then click Data Search button.

| Date | CONTRACTOR CONTRACTOR CONTRACTOR | and the second second second second | |
|---------------|----------------------------------------|-------------------------------------|------------------|
| Date | 2015-08-01 | | 3-25 □▼ |
| • High to | Low | O Low to High | |
| Comprehens | sive print | | |
| ✓ Total | | ☑ Distance | |
| ✓ Safety | | ☑ Drive Duration | |
| Fconor | nic | | |
| | | | |
| E conon | No of Drivers | 5 👻 | Data Search |
| nvidual Prin | No of Drivers | 5 ~ | Data Search |
| invidual Prin | No of Drivers nt Total | 5 ¥ Distance | Data Search |
| invidual Prin | No of Drivers nt Total Safety | 5 v Distance Drive Durat | Data Search e |

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3) Then you will see below Driver ECO Ranking report and if you want you can print this report

| | U Ranking | | | | |
|-------------|------------|--------------|----------------|-------------|-----------|
| Duration | 2015/08/01 | ~ 2015/08/25 | Sort By | High to Low | |
| Total | | | Distance | | |
| 1, 65BA7010 | | 100 | 1, 32BA1792 | | 304.11 Kr |
| 2,0011 | | 100 | 2, 32BA1769 | | 266.33 Kr |
| 3, 1111 | | 100 | 3, 32BA1765 | | 226.14 Kr |
| 4,0015 | | 100 | 4,0011 | | 134.61 Kr |
| 5, SantaFe | | 92 | 5,0015 | | 30.93 Km |
| Safety | | | Drive Duration | | |
| 1 0011 | | 100 | 1 32BA1792 | | 15-50-30 |
| 2 1111 | | 100 | 2 32BA1769 | | 12:38:11 |
| 3 0015 | | 100 | 3 32BA1765 | | 10:54:00 |
| 4 65RA7010 | | 100 | 4 0011 | | 10:52:24 |
| 5 SantaFe | | 94 | 5 65BA7010 | | 03:02:16 |
| | | | 0,000,000 | | 00 02 10 |
| Economic | | | | | |
| 1, 1111 | | 100 | | | |
| 2,0015 | | 100 | | | |
| 3, 65BA7010 | | 100 | | | |
| 4, 0011 | | 100 | | | |
| 5, 32BA1792 | | 93 | | | |
| | | | | | |
| | | | | | |

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Daily Report





Daily report buttons

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Daily Search by Vehicle No

| 🗩 SMAR | RT ALLARLA | DMS | | | | | | | | |
|------------|------------|----------------------------|---------------|-----------------|----------------|---------------------------------------------------|-------------------------------------------------------------------------|--|--|--|
| f I | 0 | | II -W- II | | ~ = | 1 9 | 1) Click Search Icon | | | |
| All | | | C (0) | 04 | | | | | | |
| 2) Click I | Data | 1 | | 3) Click | Data Search | | | | | |
| | Date | $\boldsymbol{\mathcal{A}}$ | | Daily Search I | .ist - Vehicle | | × | | | |
| Date 2 | 2015-08-25 | Data Sta | arch Type All | | ~ | ehicle Conn | nection Lis Print Export | | | |
| No | Active | Vehicle Id | Vehicle No | Group | Driver No | Update | Event Alarm | | | |
| 1 | Х | 00006 | 4. Change se | arch option | | | | | | |
| 2 | х | 00011 | | • | | | | | | |
| 3 | х | 00010 | All | | | Press Vehicle Connection List button to check the | | | | |
| 4 | х | 00009 | Active | | | networl | k connection Set to "DRV+Conn" to see the | | | |
| 5 | х | 00007 | Need to r | beck vehicles | | driving | time (orange) compared to the 3C or Wi-FI | | | |
| 6 | х | 00005 | Unsafe d | riving vehicles | | networl | k connection time (green) | | | |
| 7 | х | 00003 | onbure o | reneres | | networr | k connection time (green) | | | |
| 8 | х | 00004 | | | | Vehicle Connection List 20 Drv+Conn | 015/08/21 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23 | | | |
| 9 | х | 00002 | | | | Ozinga1 | | | | |
| 10 | х | 80000 | 0011 | Jillur | | | | | | |
| 11 | 0 | 00013 | 32BA1765 | IXAT | | 05 | | | | |
| 12 | х | 00001 | 32BA1769 | IXAT | | | | | | |
| 13 | 0 | 00012 | 32BA1792 | IXAT | Hank LEE | 17 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23 | | | |
| < | | | | and Market | | | > | | | |



Vehicle Connection List





Daily Search by Driver No

| Print Expo | | Daily Search List - Driver | | | | | Click Date |
|------------|----------|----------------------------|-----|--------|----------|-------------|---------------------------------------|
| Print Expo | | Daily Search List - Driver | | | | | |
| Print Expo | | | | | | | · · · · · · · · · · · · · · · · · · · |
| | | | | arch | Data Sea | 25 🔍 🗸 | Date 2015-08- |
| Vehicle No | Distance | Drive Duration | ECO | Safety | e Total | Driver Name | Driver No |
| 32BA1792 | 47.58 Km | 14:55 ~ 17:25 02:30:46 | 93 | 93 | 93 | Hank LEE | Hank LEE |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Mass OTA (Over the Air) KP1 Updates (Firmware & Config)

| | | Configura | ation OR Fir | mware | vare Upg | rade Reservation |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|------------------|-------------|----------------------------------|
| Remote U | pgrade | Se | lect all U | Inselect all | | |
| onfiguration Upgrade | | | | | | |
| 1 | | NO | Vehicle No. | Group | Reservation | Firmware file |
| Single Vehicle | Reservation | | 0001 | KOREA | | |
| | | | 0002 | KYOIO | | |
| renuara llearada | | ▼ 3 | 32BA1709 | TAXI | | |
| rmware opgrade | | ✓ 4✓ 5 | 32BA1792 | TOKYO | | |
| Cinala Vahiela | Perspection | | 0005 | TOKTO | | |
| Single venicle | Reservation | | | | | |
| | | | | | | |
| | 1 | | | | | |
| | Close | | | 3) Check Vehi | cles | |
| | | | | | | 4) Click and select ungrade file |
| e KP1 is connected tl | hen Server will upload | | | | | +) thek and select upgrade me. |
| new firmware or con | nfiguration file | | | | | Configuration: "setting ini" |
| will be upgraded au | tomatically upon the | | 5] |) Click Register | | Firmware: "KP1.2.X.X.bin" |
| power cycle. | J 1 | < | | | | |
| P | | | | | | |
| Das | Server × | Firmw | vare file | | | |
| | | | | | | |
| | | | | | | |
| A Unload reconnection | ons has been completed | Re | gister | Reset | | |
| | The second se | | | | | |



DMS Database Management

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| | | | | 1) Click D | Database | Manager | nent | | |
|-------------------|-------------------------------|-------------------------------------------|---------------------------------------------------------------------------|----------------------|-----------|-----------------------|------------------------------------------------------|------------------------------------------|---------------------------------------------|
| DA | \S-3G | | | | | | | | 1 |
| 9 | | | _n ⊗ (∃ × | <i>?</i> | | | _ | _ | |
| | | | EDA D | ata MGMT | | | | × | Database delete by |
| | DB Path D:\ | DVR\DMS\DMS_DB | DB drive total siz | e 23 | 306.2 GB | Delete D | B -25 🔍 🕇 [| Delete previous data | date: All data prior the date selected w |
| 1 | DB data size | (->) | DB drive free siz | e 22 | 290.8 GB | - | | Delete whole DB | De deleted |
| ehicle I Selec | Management t all Unsele | ect all | 2. Click here to che size | ck the current | : databas | e | | | Delete entire data base |
| No | Vehicle Id | Vehicle No | Device Id | Group | Analy | ze Type | | Geofence ^ | |
| 2 | 00011 | 0015 | AABBCCDD0015 | | | A | | | |
| 3 | 00010 | 1111 | AABBCCDD0003 | | | A | | | |
| 4 | 00009 | SantaFe | K2MB61400124 | | | A | | | |
| 5 | 00007 | 65BA7000 | B2MA11500068 | KP1 | | A | | | |
| 6 | 00005 | 65BA7010 | K2MB61401506 | KP1 | | Α | | 10 | |
| 7 | 00003 | 0001 | AABBCCDD0001 | Simul | | A | | | |
| ∃8 S | et Group | 0004 | AABBCCDD0004 | Simul | | A | | | |
|]9 p | er vehicle | 0006 | AABBCCDD0006 | Simul | | A | | | |
| 10 11 12 | 00008 00013 00001 Yo | t pre-created Geofe u can create Geofe | ence per vehicle. nce at DMS Setting me | TAXI TAXI TAXI | | A Delete v DMS4 | vehicle from | kyoto2,KyotoC sn, | |
| 13 | 00012 | 32BA1792 | B2MA31400287 | TAXI | | A | | × | |
| • | 11 | 11 | | 1.0 | | | | | |
| Set Gr | roup Set Geo | fence Set Analysis Ty | /pe Recorder Replacem | ent Delete | e | | | | |
| Drive | er Management | | | | | | | Close | |
| Inp | ut Driver ormation | Set Ana You can Criteria | lysis Type for reports set the Analysis Type Settings at DMS settin | from Analysis gs. | | Re in: ex | corder Replac stalling a repla isting vehicle. | ement is used when cement KP1 into an | |

DMS Settings: DMS Tab

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| DMS Data | | | |
|--------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Database Setting DB Path(restart) | D: | Select Data storage path Depot Office Name SalesServer | 24H: the end of a day is Midnight and new working day starts from 00:00:01. |
| GUI Language(restart) | English v | DMS Management Change Admin Password | 2H: the end of a day is 2 o'clock and new working day starts from 02:00:01 |
| Date Format Time Format Custo | YYYY/MM/DD v 24H v omizing Column | SMTP setting Driving Data Analysis Analysis Criteria Settings Grading Criteria Settings | Change DMS4 passwo Initial password is |
| Alarm Command | Enabled | Percet Setting | 4321. |
| Authentication Depot Sales | Company Smartwitne | Warning Message when free space is less than 1GB (you can select other GB size for warning by clicking the dropdown) | Enter SMTP information to send email reports from DMS4. |

GUI (Main screen and Live Command screen) Setting

| | 1. C | . In the "DMS Tab ustomizing Colu | " click the I mn button | | |
|-------------------------------------|-------------|--------------------------------------|-----------------------------------|------------|-------------------------------------|
| Customizing Column | | × | | | |
| Alarm Command Enabled | | | Customiz | ing Column | × |
| | Column Name | Order Show | Column Name | Order Show | Column Name Order Show |
| Check this box to control Alarm out | NO | 1 🗸 🗸 | Speed | 11 🗸 🗹 | Time 21 v |
| Then you can use below command | Active | 2 🗸 🗸 | RPM | 12 🗸 🗹 | Recorder 22 v |
| at Live Command screen to send | VehicleID | 3 🗸 🗸 | Heading | 13 🗸 🗸 | Checked item will be on the |
| server | Vehicle No. | 4 🗸 🗸 | Record | 14 🗸 | main screen |
| Alarm Out function requires | Group | 5 🗸 🗸 | Camera Signal | 15 🗸 🗹 | |
| KP1-INT1-S or KP1-INT2 power | Driver | 6 🗸 🗸 | DRV Backup | 16 🗸 🗹 | |
| adaptor | Update Time | 7 🗸 🗸 | SdnStart | 17 🗸 🗆 | |
| | EventCnt | 8 4 | SdnAccel | 18 🗸 🗆 | |
| Duration 5 | Alarm | 9 🗸 🗸 | SdnBrake | 19 🗸 🗆 | |
| Beep Duration 5 | Signal | 10 v V | Dist | 20 🗸 🖌 | |
| AlarmOut 1 AlarmOut 2 | | | | | Un a chart it any tao hi da any tha |
| | | | | | main screen |
| | | | | | OK Cancel |



DMS4 settings: setting the data & the PC viewer paths

| | 1) Click Settings |
|-------------------------------------|----------------------------------------------------------------------------------------------------|
| DMS Setting DMS Data | 2) Select Data tab |
| Data Path Management | |
| Manual Backup Path Metadata Path | C:\Users\administrator\Documents\SmartWitness\KP1\BACK C:\Users\administrator\Documents\DMS-Export |
| DVR Viewer Path | C:\Program Files\SmartWitness KP1\AnalysisSoftware.exe |
| | |
| | 3) Click and select AnalysisSoftware.exe file. |
| | The default location is c:\Program Files (x86)\SmartWitness KP1\AnalysisSoftware.exe |
| | |
| | OK Cancel |



DMS Settings: Network Tab

| DMS Da | ata Network | | | | Port Number and DMS Ke |
|------------------------------|-------------|---|--------------------------------------|-------------------------------------------------------------|---------------------------------------------|
| Network | | | Web Service | | |
| Port No(restart) | 5000 | | Running Pert: 443(SSL) | Start Stop | |
| DMS Key | DASKEY_001 | | Enable We Port No License Ki | tatic IP and Port # http://112.222.189.236 ey DASKEY_001 | ex) http://DomainName:5 |
| Live Track Interval | 2 sec | ~ | Secure Connection(55 | L) Lert Hie | : |
| Send DRV Interval | 1 min | ~ | startssl_smartets.com1 | .pem | |
| | | | Client F | Register | Set The interval in |
| Network Time Out | 10 min | ~ | Web Servi | ce Upgrade | which KP1 is |
| Retry Count | 3 times | ~ | DMS Management | | sending live tracking data. Driving Data |
| Health Interval | 3 sec | ~ | Driver Id Setting Type | Remote Update 🗸 🗸 | (DRV), and the |
| Health Retry Interval | 1 min | ~ | Safe Driving Option(Mail | Select Geofence | I racking interval. |
| Snapshot Delay | 500 msec | ~ | Receive Geofence Ever | nt Image | |
| Keep Alive Time (Restart) | 10 sec | ~ | EMail R | ecipient | |
| | | | | | |



DMS Settings: Web Service (HTML5 web application, available Sept 2015)

| eb Service | | | | | | | |
|------------------------|-----------------|-------------|-----------------|----------------|----------------------------|--------------------------|---------|
| Running Port: 44 | 3(SSL) | Start Stop | | Click a to acc | and add new ess Web ser | v client ID & P vice. | W |
| Enable Web | | | | | | | |
| Port No | 443 | | | | ID Se | et Web Client | assword |
| Secure Connec | tion(SSL) | Cert File | | | ID | | |
| startssl_smartet | s.com1.pem | | | | Password | | |
| | Client Register | r | | | | ок | Close |
| We | b Service Upgr | ade | | | | | |
| Veb Service Stopped | | Start Stop | | | | | |
| Enable Web | | | | | | Add | D |
| Port No | 443 | | | | | | |
| Secure Conne | ection(SSL) | Cert File ┥ | Select file | for SSL | |] | |
| startssl_smarte | ts.com1.pem | | | | | | |
| | Client Regist | er | | | | | |
| W | eb Service Upg | grade | | | | | |
| | | | | | | | |

SMARTWITNESS VEHICLE CCTV AND SAFETY SYSTEMS

Driver ID Management & Safe Driving Option

| | | Remote Update = Change the Driver ID (Driver Name) from |
|--------------------------|-----------------|--------------------------------------------------------------------------------|
| DMS Management | | server |
| Driver Id Setting Type | Remote Update | SD Card = Change the Driver ID using the main SD card only. |
| Safe Driving Option(Mail | Select Geofence | |
| Receive Geofence Ever | nt Image | |
| EMail R | ecipient | |
| | | |
| Safe Drivin | g Check × | Safe Driving Option(Mail) |
| and the second second | | Threshold for Driving behaviors: |
| Sdn Start | | Sudden Start 10 times per day. |
| Sdn Accel | 10 | Sudden Acceleration 10 times per day. |
| Sdp Brake | 10 | Sudden Brake 10 times per day. |
| Sun brake | 10 | Please set SMTP and email recipient. |
| ок | Cancel | Then you will receive an email daily to see which vehicles exceed this number. |
| | | |



Adding Geo-fences

VEHICLE CCTV AND SAFETY SYSTEMS



Adding Geo-fences cont'd





Applying Geofences to Vehicles

| | | | EDA Dat | a MGMT | | | |
|----------|----------------|--------------------|------------------------|----------------|--------|------------------|----------------------|
| | | | | | | Delete DB | |
| | LIB Path D:\DV | R\DMS\DMS_DB | DB drive total size | 230 | 6.2 GB | 2015-08-25 | Delete previous data |
| D | B data size | > | DB drive free size | size 2290.8 G8 | | | Delete whole DB |
| ehicle M | anagement | | | | | | |
| Select | all Unselect | all | 9. Select Vehicle(s) | | | | |
| No | Vehicle Id | Vehicle No | Device Id | Group | _ | Select Geofence | 132BA17691 |
| 1 | 00006 | | B2MA11500031 | | 1 | Select Georenice | |
| 2 | 00011 | 0015 | AABBCCDD0015 | | No | Geofence Name | Туре |
| 3 | 00010 | 1111 | AABBCCDD0003 | | 1 | DMS | IN |
| 4 | 00009 | SantaFe | K2MB61400124 | | 2 | 888 | OUT |
| 5 | 00007 | 65BA7000 | B2MA11500068 | KP1 | 3 | inchon | IN |
| 6 | 00005 | 65BA7010 | K2MB61401506 | KP1 | 4 | inchonbridge | OUT |
| 7 | 00003 | 0001 | AABBCCDD0001 | Simul | 5 | inchonbridget | 001 |
| 8 | 00004 | 0000 | ****************** | Simul | | SIT SIT | TN |
| 9 | 02002 | 10. Select S | et Geofence | Simul | | KyotoDut | 0.17 |
| 10 | 00008 | 0011 | AABBCCDD0011 | Simul | | | 11. Select Geofence |
| 3-11 | 00013 | 32BA1765 | K2MB61400260 | TAXI | | | |
| 12 | 00001 | 32BA1769 | B2MA31400317 | TAXI | | | 12. Select OK |
| | | | | | | | |
| Set Gro | Set Geofen | ce Set Analysis Ty | pe Recorder Replacemen | nt Delete | | | |



To use Geofence 5





Receiving Emails from DMS4 Server

| Database Setting | | | Depot | | | | |
|---------------------|----------------|------------------------|-----------|-----------------------|-------------|--|-------------------------|
| DB Path(restart) D: | | | | ne | SalesServer | | |
| Minimum free | 1 | 1 ~ | | isiness Day | 24H 🗸 | | |
| GUI | | | DMS Manag | gement | | | |
| Language(resta | art) English | English v | | Change Admin Password | | | 2) Click SMTP Setting |
| Speed Format | km/h | ~ | | SMTP setting | | | 2) Click SMTT Setting |
| Time F | | SMTP s | setting | 1 | × | | |
| | SMTP Server | smtp.gmail.com | | ex) smtp.gmail.com | | | |
| Alar | SMTP Port | 465 | | ex) 465, 0, | | | |
| Authentic Depot | SMTP Security | SSL | ~ | | | | 3) Type SMTP informatic |
| Sales | SMTP Login | gin taiminco@gmail.com | | ex) aaa@gmail.com | | | |
| | SMTP Password | TP Password | | | | | |
| | Text Recipient | | | Send Test | | | 4) Click OK |



Receiving Emails from DMS4 Server cont'd

| | | 5) Click Network Tab |
|---------------------------------------------------------------------|---------------------------------------------|---------------------------------------|
| | DMS Setting | X |
| | DMS Data Network | |
| | EMail Recipient X | FUI |
| | Send EMail : Recorder / Device Health Check | Customizing Column |
| 7) Check box to receive the KP1 | Recipient1 chris@smartwitness.com | Alarm Command Enabled |
| health daily. | Recipient2 | |
| 8) Input email | Recipient3 | |
| Server send a daily health check | Recipient4 | DMS Management |
| report by email. | Send EMail : Driving Data Check | |
| 9) Check box to receive the Driving | Recipient1 chris@smartwitness.com | Safe Driving Option(Mail) 6) Click Em |
| Data daily. | Recipient2 | Select Geofence Recipient |
| 10) Input email address. Then Server sends a daily Driving | Recipient3 | Receive Geofence Event Image |
| | Recipient4 | EMail Recipient |
| report by email. | | |
| | OK Cancel | |
| | | OK Cancel |



About Icon



