

Mobile Biometric Station: MBS-1

The MBS-1 is a versatile, compact and easily transportable mobile biometric station. The MBS-1 is especially designed for forensic technicians to provide on-the-spot access to automated fingerprint /palmprint databases and resources for fast and reliable results in any environment.

All facilities are housed in a military-grade shockproof transportable case. Using bespoke RASTR software, the MBS-1 complex enables the expert to apply the most recent technology for image processing.

The MBS-1 can also operate independently, i.e. as a stand-alone AFIS, booking station or express ID check terminal, or be a part of a network operating system as a remote AFIS station.

The MBS-1 supports a wide range of communication channels for connectivity and remote interaction with the AFIS databases:

- Local Area Network (LAN)
- Dial-up telephone line or Cellular communication of EDGE/GPRS/GSM standards
- Synchronized satellite channel

To fully use all functional capabilities of the complex, the user is required to be a forensics science expert or a fingerprint technician.

Hardware Configuration:

- Notebook/PC, mouse, USB flash drive, recharger, accumulator package.
- Car voltage converter, power filter.
- GSM modem
- LS-4421 fingerprint scanner
- Flatbed scanner (A4 size)
- Rechargeable portable printer (A4 size)

- Digital or EOS camera, recharger, tripod/monopod
- Ruggedized transportable suitcase

The MBS-1 station is adapted for efficient operation in any vehicle (mobile crime labs, for instance) – it can be powered with car accumulators through voltage converter or with car on-board power system.

Incorporated in a special rugged case, all components are fully protected during transportation. The complex can be prepared for use within 5 minutes (determined by computer boot-up).

Software Configuration:

- Linux OS/MS Windows OS
- LIVE SCANNER software
- AFIS software
- Express ID Check software
- RASTR software

Functional Capabilities:

With the software installed, the MBS-1 workstation is a multifunctional instrument that enables forensic experts and fingerprint technicians:

- Create and maintain a local database of ten prints and latent prints.
- Input latent print images directly from objects and surfaces they are discovered on or from lifting tapes and layout sheets through the use of digital camera and flatbed scanner respectively.
- Process the images of captured latent prints including those of poor quality.
- Create electronic ten prints through electronic fingerprinting.
- Capture mugshots, SMT and document photos.
- Enter ten prints: importing electronic ten print cards, scanning paper ten print cards.
- Code ten print and latent searches of the internal

database and to verify the results to transmit latent and ten print records (including ten prints of the dead) to the Central APFIS for search and database insertion.

- Verify and identify the subjects in real-time mode against local and Central APFIS databases to determine if the individual can be linked to unsolved cases and to retrieve other related information, e.g. apprehensions, previous convictions, search for wanted, authenticity of passport data, etc.
- Receive search results from the Central APFIS database (under appropriate permissions), to verify candidate lists, and to print out information.
- Process images, to prepare evidence illustrations, examination worksheets and charts using the capabilities of the RASTR software.
- Print out any text and graphic information and documents.

