



PRODUCT UPGRADE ANNOUNCEMENT

Equipment Affected: **ICOP Model 20/20[®]-W** **PN: 600-50004**
 ICOP 20/20 VISION[™] **PN: 600-00155**

Date Issued: **July 15, 2010**

Overview:

New ICOP Model 20/20-W and ICOP 20/20 VISION Digital Video Recorders (ICOP DVRs) are loaded with Firmware version M0170.

For existing ICOP DVR customers, this firmware provides a number of enhancements and fixes, depending on your currently installed firmware. Details are provided below that describe the upgrade procedure.

NOTE: This upgrade does not apply to the original ICOP Model 20/20.

New Customers:

Thank you for choosing an ICOP Mobile DVR system!

ICOP DVRs are the leading digital in-car video recorder systems for law enforcement, providing secure, high quality video recordings. All the information you need to install, configure, and use the system can be located on the CD provided.

Existing ICOP Model 20/20-W and ICOP 20/20 VISION Customers:

It is strongly recommended to upgrade all ICOP DVR Firmware to version M0170. Upgrade instructions are on the CD provided, in the ICOP Model 20/20-W Firmware Upgrade folder.

Hardware updates on newer ICOP DVR systems require firmware version M0170 or better.

In addition, the "DVR Setting Tool" software has also been updated to support the new version of firmware. **Do not use any prior version of the DVR Setting Tool software.** Previous versions of the DVR Setting Tool are incompatible with ICOP DVRs with Firmware version M0170.

Existing ICOP Model 20/20 Customers:

The M0170 firmware is designed specifically for the ICOP Model 20/20-W and ICOP 20/20 VISION DVRs and **will not work in an ICOP Model 20/20 DVR.**

ICOP CUSTOMER CONFIDENTIAL

ICOP Digital, Inc. 16801 West 116th Street, Lenexa, KS 66219, USA
Sales: 866.210.ICOP (4267) • Support: 866.621.5500 • Headquarters: 913.338.5550
Fax: 913.312.0264 • www.ICOP.com

New Features and Enhancements in M0170

- Support for 32GB, 64GB and 128GB solid state drive modules.
- Enhanced AM/FM radio reception. (applicable only to ICOP DVRs manufactured after May 2010, with serial numbers greater than D1050001)

Previous firmware upgrades:

M0155

- Support for new 20/20-W LCD which provides a better viewing angle and correct aspect ratio.
- The M0155 firmware is backward compatible with the existing 20/20-W units with the previous LCD.
- Corrected a hardware interrupt timing issue when recording.

M0140

- Support for multiple languages (English, Spanish and Arabic).
- Fully implemented feature set to support the ICOP Model 20/20 VISION DVR.
- If a trigger event occurs during a wireless upload, the upload will be aborted and a recording started.
- Enhanced the ability to set radio stations using the DVR Setting Tool to accommodate international settings.
- Corrected the system to allow the external microphone audio to be played inside the car after it has gone out of range and come back in, or the external microphone is muted and subsequently un-muted.
- Enhanced the front facing camera focusing algorithm.
- Default the backseat camera to black and white.
- Use GPS speed to compare against the speed trigger.
- Auto power off the unit if powered on with the front panel open and no action is taken

M0136

- Support for WC-2000 wireless upload communication
- Configuration setting of auto power down that can be configured from 15 minutes up to 2hours
- Inclusion of an "Auto login" feature (through supervisor setup)
- Support of auxiliary inputs for Start, Stop, Mark control using new externally control unit
- Inclusion of a "wireless timeout" to specify the maximum amount of time for a wireless upload session
- Change of GPS position representation to "minutes.decimal minutes" for 911 compatibility
- Provides user feedback if HDDM from ICOP Model 20/20 is inserted into an ICOP Model 20/20-W
- Increased resiliency for writing data to the HDDM under extremely high operating temperature
- Updates to speed monitoring algorithm to closer track actual vehicle speed
- Increased robustness during firmware updates and user operation
- Requires user login before activation of AM/FM radio

This announcement is to be included in new product shipments.

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