
AMX-1881-NBC-ND (Name Dropper)

NOTE: The iControl compatibilities shown below are estimated initial support. Earlier versions may also work with bugs or limited features.

1. FIRMWARE VERSION: 923

Release date: 2009-11-19

Program #: 7685-0103-923

iControl compatibility: 3.52 (build 33)

iControl Solo compatibility: 3.52 (build 1)

RCP-200 compatibility: NA

Hardware incompatibility: This firmware applies to all existing hardware assembly.

1.1. BUGFIXES

1.1.1. Spurious glitches in AES detection

When the AES inputs are stable, there are spurious glitches in the detection. This makes the iControl AES detection toggle randomly (with a period varying from a few seconds to a few minutes).

1.1.2. When switching between SD and HD, possibly use wrong insertion line for Dolby meta-data

1.1.3. Potential for audible distortion in SD-SDI when embedding AES audio

This problem sometimes happen when the video input switches in a "non-clean" manner. Improved video input error and hot-switches detection

1.1.4. Potential for audio clicks and pops on channels coming from AES inputs with no valid AES carrier (or not connected)

The AES receiver's configuration has been changed to output silence when no AES carrier is detected.

1.1.5. Wrong CRC value in the inserted VLI

1.1.6. Bad detection of VLI when generated by equipment other than AMX-1881

This version detects proper VLI signals as well as the VLI with wrong CRC as computed with the previous (buggy) version.

1.1.7. Possible audio corruption when changing audio delay

1.1.8. When switching between SD and HD, possibly use wrong insertion line for Dolby meta-data

1.2. ENHANCEMENTS & NEW FEATURES

1.2.1. AFD code substitution

This new feature applies **ONLY to the Automatic AFD** insertion mode. In this mode, a lookup table has been introduced between the detected AFD and the code inserted. This allows for substitution of problematic AFD codes.

1.3. KNOWN BUGS & LIMITATIONS

1.3.1. Only supports HD inputs

Only HDTV input formats are supported as per client specification (NBC).

1.3.2. AFD preset and substitution table

In the iControl GUI, the AFD presets that are saved and restored with the "AFD presets..." button do NOT include the substitution table. This button should be removed in future releases due to its questionable usage.

1.3.3. The colorbar test pattern has been replaced by a gray flat field

1.3.4. Firmware update issues with CPU_ETH1

When updating the card's firmware in a Densité frame equipped with a CPU_ETH1 controller, the MIU (Miranda Interface Updater) software will report an upgrade failure at the end of the process. But in fact, the firmware upgrade has worked but the card cannot communicate with the outside world (neither through iControl nor the local menu on the Densité frame).

WORKAROUND: After the firmware upgrade, re-slotting the CPU_ETH1 controller to restore communication with the AMX card.

NOTE: You must make sure that only ONE network connection is made to the CPU_ETH1. Multiple connections are not reported by CPU_ETH1 and they will really cause a failure of the upgrade.

1.3.5. SMPTE-2016 AFD not supported in SDTV

Aspect ratio meta-data only supported through VLI standard.

1.3.6. Aspect ratio meta-data not supported in SD-625

Aspect ratio not supported in SD-625: neither WSS (Wide Screen Signaling) nor VLI or SMPTE-2016.

1.3.7. NOT all Aspect Ratio codes are supported

The codes supported are:

4:3	16:9
4:3_2	16:9_8
4:3_3	16:9_9
4:3_4	16:9_11
4:3_8	16:9_13
4:3_10	16:9_14
4:3_11	16:9_15
4:3_13	
4:3_14	

2. FIRMWARE VERSION: 900

Release date: 2007-09-05

NCO #: 685-99N01-305

Program #: 7685-0103-900

iControl compatibility: 3.12

iControl Solo compatibility: 2.77

RCP-200 compatibility: NA

Hardware incompatibility: This firmware applies to all existing hardware assembly.

2.1. BUGFIXES

2.1.1. Aggregate bugfixes from mainstream version 207

2.2. ENHANCEMENTS & NEW FEATURES

2.2.1. Factory default line selection for AFD

	SD-525	SD-625	1920x1080@59.94i	1920x1080@50i
FIELD1	NA	NA	11	NA
FIELD2	NA	NA	11	NA

2.3. KNOWN BUGS & LIMITATIONS

2.3.1. Only supports HD inputs

Only HDTV input formats are supported as per client specification (NBC).

2.3.2. AFD preset and substitution table

In the iControl GUI, the AFD presets that are saved and restored with the "AFD presets..." button do NOT include the substitution table. This button should be removed in future releases due to its questionable usage.

2.3.3. The colorbar test pattern has been replaced by a gray flat field

2.3.4. Firmware update issues with CPU_ETH1

When updating the card's firmware in a Densité frame equipped with a CPU_ETH1 controller, the MIU (Miranda Interface Updater) software will report an upgrade failure at the end of the process. But in fact,

the firmware upgrade has worked but the card cannot communicate with the outside world (neither through iControl nor the local menu on the Densité frame).

WORKAROUND: After the firmware upgrade, re-slotting the CPU_ETH1 controller to restore communication with the AMX card.

NOTE: You must make sure that only ONE network connection is made to the CPU_ETH1. Multiple connections are not reported by CPU_ETH1 and they will really cause a failure of the upgrade.

2.3.5. SMPTE-2016 AFD not supported in SDTV

Aspect ratio meta-data only supported through VLI standard.

2.3.6. Aspect ratio meta-data not supported in SD-625

Aspect ratio not supported in SD-625: neither WSS (Wide Screen Signaling) nor VLI or SMPTE-2016.

2.3.7. NOT all Aspect Ratio codes are supported

The codes supported are:

4:3	16:9
4:3_2	16:9_8
4:3_3	16:9_9
4:3_4	16:9_11
4:3_8	16:9_13
4:3_10	16:9_14
4:3_11	16:9_15
4:3_13	
4:3_14	

2.3.8. Wrong CRC value in the inserted VLI

When inserting VLI, the CRC generated has an invalid value.

2.3.9. Bad detection of VLI when generated by equipment other than AMX-1881

VLI generated by another AMX-1881 is detected but if the VLI is generated by another card it is not detected.

2.3.10. Possible audio corruption when changing audio delay

Changing audio delays, may introduce a corruption of the audio data.



WORKAROUND: Change the audio delay once or twice should correct the problem.

2.3.11. When switching between SD and HD, possibly use wrong insertion line for Dolby meta-data



2.3.12. Special update procedure when upgrading from older versions

For cards already having versions 7685-0102-101 and 7685-0103-103 (NCOs 685-99N01-302 and 685-99N02-302), the update must be done at Miranda. See 685-99N01-305 NCO for details.

3. FIRMWARE VERSION: 103

Release date: 2006-10-31

NCO #: 685-99N02-302

Program #: 7685-0103-103

iControl compatibility: 3.12

iControl Solo compatibility: NA

RCP-200 compatibility: NA

Hardware incompatibility: This firmware applies to all existing hardware assembly.

3.1. BUGFIXES

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3.2. ENHANCEMENTS & NEW FEATURES

3.2.1. Initial release of NameDropper NCO

The name dropper feature embeds proprietary ancillary data for logo insertion and other features.

3.3. KNOWN BUGS & LIMITATIONS

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