

## Television Audio Processor Firmware Version History

### Version 3.6.1 \_\_\_\_\_ 2017-03-13 \_\_\_\_\_

Corresponding minimum software versions:

Remote Panel X*AP RM1	1.10.1	X*AP RM1
J*AM - Jünger Application Manager	2.9.10	J*AM
SDI interface board SDI-150	50.0.0.0	O_DAP_SDI_a

Changes:

- changed (*Web UI*) java meter applet replaced by web sockets to revive metering in browsers without java support  
 Please note: the java browser plugin is no longer necessary with T\*AP
- improved (*Web UI*) unsupported browser message is up to date again
- improved (*Web UI*) Chrome, Firefox, Edge and Internet Explorer supported
- improved (*X\*AP*) updated all Audio Processor parameters on X\*AP RM1  
 X\*AP firmware update necessary (1.10.1)!

### Version 3.5.3 \_\_\_\_\_ 2015-07-27 \_\_\_\_\_

Changes:

- fixed problem where in rare cases device was not reachable over network after reboot

### Version 3.5.1 \_\_\_\_\_ 2014-09-26 \_\_\_\_\_

Changes:

- new powerful upmix algorithm for upmixing stereo or even mono sources at highest quality while remaining fully downmix compatible
- new LFE extraction within upmix with adaptive effect gating
- improved latency compensation for upmix processing time now only depends on upmix enable status

Known issues:

- upmix presets created with any earlier firmware version are not compatible with the new algorithm. Please go to [www.junger-audio.com](http://www.junger-audio.com) and check for upmix factory presets.

### Version 3.2.7 \_\_\_\_\_ 2014-06-25 \_\_\_\_\_

Changes:

- improved Java meter applet, now running stable on MAC OSX
- improved removed click noise when routing active sources
- fixed problem caused by Dolbys 559 encoder board firmware. Audio is no longer dropped approximately every 44 minutes when encoder is set to 'stop encoding'
- fixed problem after reboot when removing Dolby 561 encoder from chassis
- fixed unwanted waiting time before upmix kicks in when using auto upmix
- fixed problem with mono settings when switching from 4x2 to 5.1+2

#### Version 3.2.6 \_\_\_\_\_ 2014-02-28 \_\_\_\_\_

##### Changes:

- improved Java meter applet, now running with verified certificate  
Supported browsers:  
Internet Explorer from version 10  
Firefox from version 24 (including ESR versions)  
Chrome from version 31  
Please note that earlier firmware versions may no longer show metering due to changes in Oracle Java security rules.
- fixed problem with disappearing bypass events

##### Known issues:

- Nachdem das Dolby D-Modul entfernt wurde, bootet das Gerät wiederholt neu.

#### Version 3.2.5 \_\_\_\_\_ 2013-11-26 \_\_\_\_\_

##### Changes:

- new feature console status message on loaded Preset Events
- fixed unwanted audio mute on startup of AN-144 analog board

#### Version 3.2.4 \_\_\_\_\_ 2013-09-20 \_\_\_\_\_

##### Changes:

- fixed audio delay values in SDI module
- fixed SDI generator is not automatically activating when setting video format

#### Version 3.2.3 \_\_\_\_\_ 2013-09-05 \_\_\_\_\_

##### Changes:

- new feature latency compensation for Dolby D/D+/AAC/HE-AAC encoders can be turned off for latency critical applications

#### Version 3.2.2 \_\_\_\_\_ 2013-05-24 \_\_\_\_\_

##### Changes:

- fixed browser support for Firefox 20 and 21  
Please note that Backup and Restore does no longer work in Firefox 20 and above with earlier firmware versions.

#### Version 3.2.1 \_\_\_\_\_ 2013-01-15 \_\_\_\_\_

##### Corresponding software versions:

Remote Panel:	14879P
Loudness Logger:	1.0.1336
J*AM - Jünger Application Manager:	2.1.9
SDI interface board:	47, 48 or 49

##### Changes:

- new feature Spectral Signature surround (please download new J\*AM version from [www.junger-audio.com](http://www.junger-audio.com))
- new feature side chain filter for fail over detection
- new feature native Ember and Ember+ protocol support  
(please note: Ember+ protocol may be subject to minor changes due to ongoing protocol specification)
- new feature center divergence for Voice Over

- new feature fully ITU-R BS.1770 revision 3 compliant
- improved metering for non-PCM input signals
- improved 'front projection' profile disabled for mono upmixing
- improved Spectral Signature and Loudness Boost are now independent
- improved audio handling on system start up and reboot
- fixed metadata status lamp consistency
- fixed unwanted linking dependencies between modules

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**Version 3.1.7** \_\_\_\_\_ 2012-12-14 \_\_\_\_\_

Changes:

- fixed rarely occurring DSP error when switching program configuration

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**Version 3.1.6** \_\_\_\_\_ 2012-12-07 \_\_\_\_\_

Changes:

- fixed date/time no longer restored from backup file
- fixed 'Trigger Effective' trigger number shift

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**Version 3.1.4** \_\_\_\_\_ 2012-10-17 \_\_\_\_\_

Changes:

- fixed loudness meter: Reset meter function working again for all programs
- fixed graphic issue in SDI routing matrix
- improved channel status in SDI

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**Version 3.1.3** \_\_\_\_\_ 2012-10-10 \_\_\_\_\_

Changes:

- improved option board detection (swaping option boards no longer requires second reboot after power up)
- fixed occasional error while updating SDI option board
- fixed problem after applying incompatible firmware image file

Known issues:

- Loudness meter: Reset meter function not working for program 2 (only in '5.1 + 2' mode)

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**Version 3.1.2** \_\_\_\_\_ 2012-09-17 \_\_\_\_\_

Changes:

- removed processing error from system status
- fixed minor bugs in web gui

## Version 3.1.1 \_\_\_\_\_ 2012-09-14 \_\_\_\_\_

Corresponding software versions:

Remote Panel:	14879P
Loudness Logger:	1.0.1336
J*AM - Jünger Application Manager:	1.0.16226
SDI interface board:	47, 48 or 49

Changes:

- added new 'AGC recovery' parameter to Level Magic (expert settings)
- added voice over
- added input section for AUX channel (mute, gain, filters, delay, latency compensation and mono summing options)
- added new trigger type: parameter
- added SDI ARIB B39 monitor (requires SDI firmware version from 49)
- added latency compensation parameter to audio setup page
- added SDI bypass and relay bypass to presets
- added lost or faulty module detection and warnings
- added 'Profile' parameter to upmix
- improved input HPF and LPF slope from 6 to 12 dB/oct
- improved SDI audio delay size increased from 255ms to 340ms
- improved SDI sync jitter
- changed overall system latency (setup dependend - please refer to manual)
- fixed SDI generator enable bug in presets
- fixed Dolby downmix metadata for Dolby D+
- fixed Firefox 3.6.X crashes (metering is now disabled for this browser version)
- fixed processing threshold offset (expert settings)
- fixed problem with UDP metering data in some web browsers
- fixed glitches when switching upmix out

Known issues:

- SDI: VANC metadata status LED for de-/embedder not functional
- SDI: status LED bound to default routing

## Version 3.0.2 \_\_\_\_\_ 2012-07-05 \_\_\_\_\_

Changes:

- added consumer metadata only detection to metadata source status
- added 'AUTO' option for DSP bit transparency
- fixed inverted 'Overwrite Current IP Configuration' checkbox in Reboot dialog
- fixed Dolby E encoder generates wrong channel mode
- fixed 'Clear' buttons no longer deactivated by expander or limiter
- fixed AES status lamp in web gui
- fixed metadata status lamps in web gui now consistent
- fixed minor bugs in web gui
- fixed problem with highlighted hotkeys after power up and restore

Known issues:

- Level Magic processing threshold can not be set
- processing error displayed if Level Magic Max Gain is set to '0' and no damping is applied (gain reduction at unity)
- Dolby D/D+ encoder: Downmix parameters missing in Dolby D+ metadata
- 'Restoring' display may disappear after a couple of seconds although the restore process is still running

## Version 3.0.1 \_\_\_\_\_ 2012-06-07 \_\_\_\_\_

Corresponding software versions:

Remote Panel:	14879P
Loudness Logger:	1.1276
J*AM - Jünger Application Manager:	1.0.1314
SDI interface board:	47 or 48

- added high and low pass filtering, delay and mute to input section
- added failover system to upmix section
- added five band equalizer
- added stereo spectral signature
- added mono mixing, delay, attenuation and mute to output section
- added bypass editor and bypass events
- added system time editor
- added status overview page
- added backup restore filtering
- added preset export/import
- added J\*AM software support
- added downmix, mute, attenuation, mono mixing and delay to monitor section
- improved Level Magic with additional parameters
- improved system stability
- improved and clickable overview screen
- improved confusing parameter configuration
- redesigned emBER structure with improved performance
- redesigned events management with added network triggers
- fixed Dolby metadata output issue
- fixed wrong timing in expander/gate
- fixed processing parameter remains adjustable even if limiter is switched off
- fixed website reloads while editing preset events
- fixed remote panel connection issue
- system prepared for voice over functionality (next major release)

Known issues:

- Level Magic processing threshold can not be set
- 'Overwrite Current IP Configuration' checkbox in Reboot dialog inverted. Please check if you DO NOT want to change IP
- backup files from version 2.2.6 and below may be restored incompletely due to major system architecture changes

## Version 2.2.6 \_\_\_\_\_ 2012-05-15 \_\_\_\_\_

- improved aes channel status management
- fixed minor bugs in preset control
- stabilized backup and restore

## Version 2.2.5 \_\_\_\_\_ 2012-03-30 \_\_\_\_\_

- fixed mismatch of compressor parameter values and corresponding internal settings
- improved limiter true peak performance

#### Version 2.2.4 \_\_\_\_\_ 2012-03-21 \_\_\_\_\_

- bugfix release
- time reference for Loudness Logger corrected

#### Version 2.2.3 \_\_\_\_\_ 2012-02-29 \_\_\_\_\_

- performance and stability of preset loading via GPI has been improved
- network configuration with no gateway is possible now

#### Version 2.2.1 \_\_\_\_\_ 2012-02-13 \_\_\_\_\_

Corresponding software versions:

Remote Panel:	12645P
Loudness Logger:	1.1216
SDI interface board:	v47

Changes:

- SNMP agent added
- capabilities of EVENTS and presets increased:
  - change operating mode (5.1 + 2 / 4 x 2),
  - change loudness mode (EBU R 128 / ITU-BS.1770-2 / ITU-BS.1770-1)
  - pause/continue and reset of loudness measurement in EBU R 128 and ITU-BS.1770-2 mode,
  - preset loading for Dolby decoder, Dolby D/D+/E encoder and metadata processor
- configuration of DSP monitor section fixed and support for presets added
- more detailed success message after restoring a backup file added
- known issue: After power on or reboot the remote control isn't able to connect to the main unit. The metering bargraphs on the left are running but only the word 'out' and a horizontal line is shown on the display. As a work around the remote has to be reconnected again by pressing <ESC> and <connect> afterwards.

#### Version 2.1.6 \_\_\_\_\_ 2012-01-31 \_\_\_\_\_

- fan control optimized
- stability when using analog interface board improved
- potential loss of configuration data on power cycle fixed

#### Version 2.1.4 \_\_\_\_\_ 2011-12-12 \_\_\_\_\_

- DSP performance optimized with even better target precision
- tolerance to subpar sync clocks has been greatly improved
- completed Dolby meta data support
- optimized WebGUI support for modern browsers
- system stability under unusual signal conditions improved
- diagnostic file export for trouble shooting implemented
- presets for AES interface module and internal AES interface added
- mixing mode for Dolby Digital Plus Encoder added
- channel status for AES outputs may be configured now